Documentation folder

Number **T10449-9**
Project number 2366554

Number	Pages	Description	Remark
10449/7-01	3	Photographs	Example
10449/0-02	3	Type designation (AS3000)	Updated
10449/0-03	3	Type designation (AS3500)	Updated
10449/11-01	2	Type designation (AS3000/3500)	Combined Type Key
10449/5-01	1	Markings	Example
10449/7-02	1	Markings	Example
10449/0-05	2	Parallel running tariff contracts	-
10449/0-06	1	Display configuration	-
10449/8-01	1	Display assembly for AS3000 (HW version 1.3b), AS3500 and AS3000DTC	-
10449/0-07	1	Error codes	-
10449/0-08	1	Terminal block - CT Type (6 A)	-
10449/0-09	1	Terminal block- DC Type (120 A)	-
10449/0-10	1	Hardware protection	-
10449/11-02	1	Hardware Protection	HW1.4 - Location of Parameterization Button
10449/0-11	1	Sealing	Example
10449/0-12	1	Breaker	-
10449/0-13	2	Sensor - Shunt (Direct connected type)	-
10449/11-03	1	Sensor - Shunt (Direct connected type)	Updated Shunt Drawing
10449/11-04	1	Sensor - Shunt (Direct connected type)	Updated Shunt Assembly Drawing
10449/0-14	3	Sensor - Current transformers (CT connected type)	-
10449/0-15	2	MAIN board: AS3000 - Assembly - AS3000 rev1.2A	-
10449/0-16	9	- Parts list - AS3000 rev 1.2A	-

Documentation folder

Number **T10449-9**
Project number 2366554

Number	Pages	Description	Remark
10449/1-01	1	- Patch for document no. 10449/0-15	Optional
10449/2-01	2	- Assembly -AS3000 rev 1.3	-
10449/2-02	17	- Parts list - AS3000 rev 1.3	
10449/6-02	2	- Assembly - AS3000DTC rev 2.0	-
10449/6-03	28	- Parts list - AS3000DTC rev 2.0	-
10449/11-05	2	- Assembly - AS3000 rev.1.4	AS3000 and AS3500 series
10449/11-06	23	- Part list - AS3000 rev. 1.4	AS3000 and AS3500 series
		I/O board: A1350	
10449/0-17	1	- Assembly - A1350 V4	-
10449/0-18	1	- Parts list - A1350 V4	-
		Module AM100 - GPRS	
10449/0-19	2	- Assembly	-
10449/0-20	2	- Parts list	-
		Module AM200 - Wireless MBUS	
10449/0-21	2	- Assembly	-
10449/0-22	1	- Parts list	-
		Module AM500 - PLC	
10449/0-23	1	- Assembly	-
10449/0-24	2	- Parts list	-

Housing

Inside - AS3000 (Direct connected type)

Inside - AS3000 (CT connected type)

23 Type key

AS3000- _ _ _ _ - _ _ _ - _ _ _ - _ _ _ _

| | | |

AS3000- _ _ _ _ - _ _ - _ _ - _ _ _ _ - _ _ _ _

1 energy tariff	**1**														
2 energy tariffs	**2**														
3 energy tariffs	**3**														
4 energy tariffs	**4**														
5 energy tariffs	**5**														
6 energy tariffs	**6**														
7 energy tariffs	**7**														
8 energy tariffs	**8**														
1 demand tariff		**1**													
2 demand tariffs		**2**													
3 demand tariffs		**3**													
4 demand tariffs		**4**													
0 no demand tariff		**0**													
No ripple receiver			**O**												
DLMS/Cosem protocol (electrical interface only)			**D**												
real time clock with calendar				**S**											
no clock				**O**											
RTC back up, internal battery					**E**										
1 external control input (Option board)						**1**									
2 external control input (Option board)						**2**									
1 external control input (Main board)						**A**									
2 external control input (Main and option board)						**B**									
no external control input						**0**									
1 mechanical relay output (up to 8A)							**1**								
2 mechanical relay outputs (up to 8A)							**2**								
1 electronic 230V output (pulse or control output)							**A**								
2 electronic 230V outputs (pulse or control output)							**B**								
3 electronic 230V outputs (pulse or control output)							**C**								
4 electronic 230V outputs (pulse or control output)							**D**								
2 mechanical relay (up to 8A) + electronic outputs							**R**								
No electronic 230V output							**0**								
1 electronic S0 output (pulse or control output)								**1**							
2 electronic S0 outputs (pulse or control output)								**2**							
3 electronic S0 outputs (pulse or control output)								**3**							
no electronic output relay								**0**							
Load profile, 8 channels, 100 days									**4**						
Load profile, 8 channels, 420/600 days									**5**						
Load profile, 8 channels, 100 days + instrument. profile, 8 channels									**6**						
Load profile, 8 channels, 420/600 days + instrument. profile, 8 channels									**7**						
No load profile storage									**0**						

AS3000- _ _ _ _ - _ _ _ - _ _ _ - _ _ _ _ _ - _ _ _ _ _ _

electrical interface, CL0 + module connector *)	**C**
electrical interface, RS232 (RxD, TxD, GnD) *)	**R**
electrical interface, RS485 (RT+, RT-) + module connector	**S**
electrical interface for module connector only	**M**
no electrical interface	**O**
FW 10.04 rev. 04	1
FW 10.05 rev. 30	2
FW 10.06 rev. 04	3
FW 10.06 rev. 06	4
FW 10.07 rev. 30	5
FW 10.50 rev. 00	6
Detection of terminal cover opening	**D**
no detection	**0**
Standard value measurement, (P = P1 + P2 + P3)	**0**
Absolute value measurement, (P = /P1/ + /P2/ + /P3/)	**B**
With integrated disconnect relay (up to Imax)	**S**
Without integrated disconnect relay	**0**
nominal frequency, 50Hz	**0**
nominal frequency, 60Hz	**1**

*) supporting the RS232 or CL0 interface the communication modules of the meter like (AM100, AM500, ..) can't be used anymore

23 Type key

AS3500- _ _ _ - _ _ - _ _ - _ _ _ - _ _ _ _

Direct connection	**D**					
CT standard connection	**W**					
3x220/380V (4 wire, 3 systems)		**F**				
3x230/400V (4 wire, 3 systems)		**1**				
3x240/415V (4 wire, 3 systems)		**M**				
3x 58/100V (4 wire, 3 systems)		**3**				
3x 63/110V (4 wire, 3 systems)		**4**				
3x 120/208V (4 wire, 3 systems)		**9**				
3x 127/220V (4 wire, 3 systems)		**B**				
3x 133/230V..3x230/400V (4w 3s)		**N**				
3x 100V (3 wire, 2 systems)		**5**				
3x 110V (3 wire, 2 systems)		**6**				
3x 120V (3 wire, 2 systems)		**D**				
3x 220V (3 wire, 2 systems)		**E**				
3x 230V (3 wire, 2 systems)		**L**				
5 (80) A			**1**			
5 (6) A			**2**			
1 (2) A			**3**			
5 // 1 A			**4**			
5 (60) A			**5**			
5 (100) A			**6**			
10 (60) A			**7**			
10 (80) A			**8**			
10 (100) A			**9**			
5(15) A			**A**			
5(10) A			**B**			
1,5(6) A			**C**			
20(100) A			**D**			
5 (120) A			**E**			
5 (20) A			**F**			
10 (120) A			**G**			
20 (120) A			**H**			
Class 0,5S				**5**		
Class 1				**1**		
Class 2				**2**		
Class C				**C**		
Class B				**B**		
Class A				**A**		

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AS3500- _ _ _ _ - _ _ - _ _ - _ _ - _ _ _ _

Quantity	+P	**1**
Quantity	+P,-P	**2**
Quantity	+P,+Q	**3**
Quantity	+P,Q_1,Q_4	**4**
Quantity	+P,-P,+Q,-Q	**5**
Quantity	+P,-P,Q_2,Q_3	**6**
Quantity	+P,-P,Q_1..Q_4	**7**
Quantity	+P,Q_1	**8**
Quantity	+P,+Q,-Q	**9**
Quantity	+P,-P,+Q,-Q,Q_1,Q_3	**A**
Quantity	+P,+-P, +Q, -Q, +S, -S	**B**
Quantity	+P,+Q,Q_4	**F**

1 energy tariff	**1**
2 energy tariffs	**2**
3 energy tariffs	**3**
4 energy tariffs	**4**
5 energy tariffs	**5**
6 energy tariffs	**6**
7 energy tariffs	**7**
8 energy tariffs	**8**

1 demand tariff	**1**
2 demand tariffs	**2**
3 demand tariffs	**3**
4 demand tariffs	**4**
0 no demand tariff	**0**

No ripple receiver	**O**
DLMS/Cosem protocol (electrical interface only)	**D**

real time clock with calendar	**S**

RTC back up, internal battery + external battery prepaired	**E**

1 external control input	**1**
2 external control input	**2**
no external control input	**0**

1 mechanical relay output (up to 8A)	**1**
2 mechanical relay outputs (up to 8A)	**2**
1 electronic 230V output (pulse or control output)	**A**
2 electronic 230V outputs (pulse or control output)	**B**
3 electronic 230V outputs (pulse or control output)	**C**
4 electronic 230V outputs (pulse or control output)	**D**
No electronic 230V output	**0**

1 electronic S0 output (pulse or control output)	**1**
2 electronic S0 outputs (pulse or control output)	**2**
3 electronic S0 outputs (pulse or control output)	**3**
no electronic output relay	**0**

AS3500- _ _ _ _-_ _ _-_ _ _-_ _ _ _-_ _ _ _ _

Load profile, 8 channels, 100 days	**4**
Load profile, 8 channels, 420/600 days	**5**
Load profile, 8 channels, 100 days + instrument. profile, 8 channels	**6**
Load profile, 8 channels, 420/600 days + instrument. profile, 8 channels	**7**
No load profile storage	**0**
electrical interface, CL0 + module connector **)	**C**
electrical interface, RS232 (RxD, TxD, GnD) **)	**R**
electrical interface, RS485 (RT+, RT-) + module connector	**S**
electrical interface for module connector only	M
no electrical interface	**O**
Display accc VDEW	**B**
Detection of terminal cover opening	**D**
no detection	**0**
Standard value measurement, (P = P1 + P2 + P3)	**0**
Absolute value measurement, (P = /P1/ + /P2/ + /P3/)	**B**
With integrated disconnect relay (up to Imax)	**S**
Without integrated disconnect relay	**0**
nominal frequency, 50Hz	**0**
nominal frequency, 60Hz	**1**

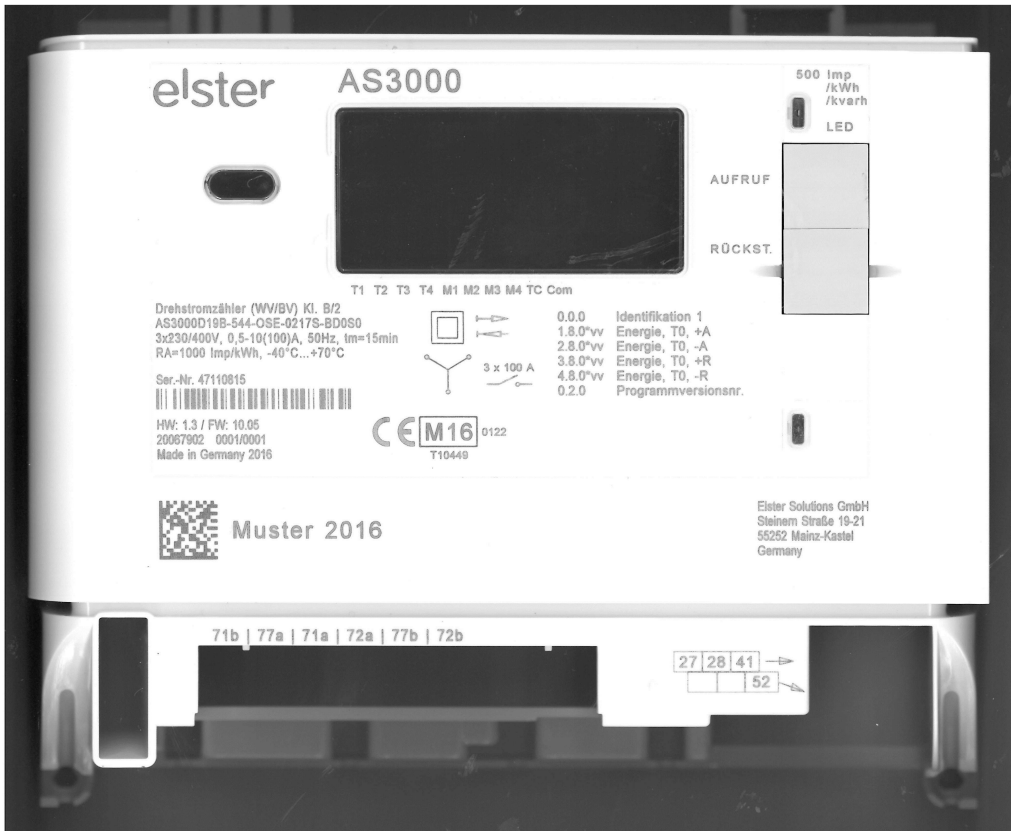
*) by using the RS232 or CL0 interface the AMI communication modules (AM100, AM500, ...) can't be used

AS3000 / AS3500 Type-Key

| Information | Description | | |

AS3000 / AS3500 Type-Key

| | | |



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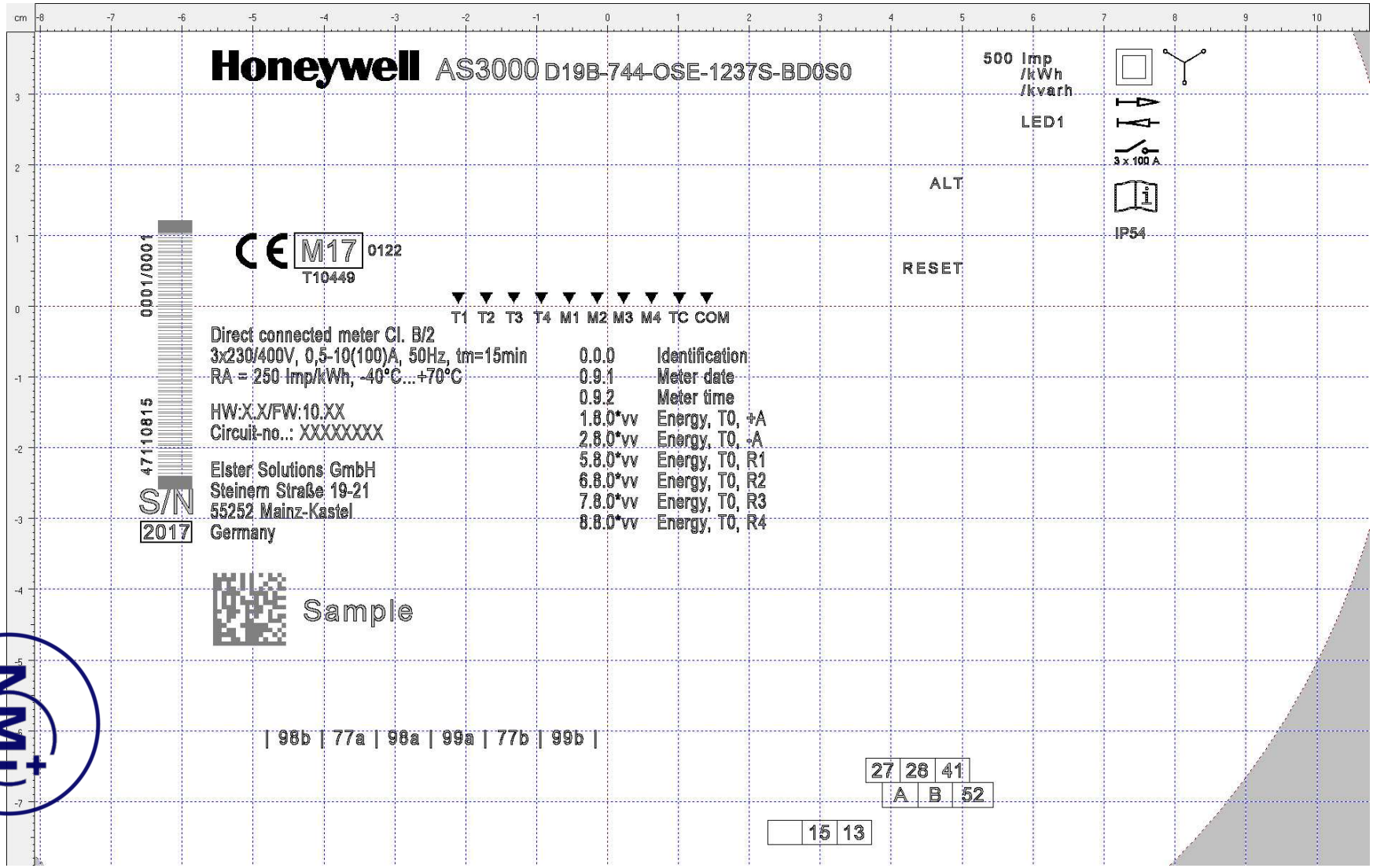

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9.7.5 Future / deferred tariff table

The meter can optionally be programmed with a second internal tariff table, which has the identical structure than the tariff table described in chapter 9.7.4.
The future tariff table can be programmed with a fixed date (at 00:00), where the tariff table will be activated automatically. The tariff table 1 will be overwritten and the internal tariff control of the meter will only be done by this second tariff table.

9.7.6 Concurrent tariff contracts

The AS3000 offers the possibility of activating 2 concurrent tariff contracts. The Utility can offer the network provider and the end-customer different tariff models.

a) Existing tariff structure – only 1 contract

4 Seasons
4 day types
1 tariff contract
8 energy tariffs for all 6 measuring quantities flexible assigned to the different day types
4 demand tariffs for 4 measuring quantities flexible assigned to the different day types

For every tariff register up to 15 monthly data are provided. The maximum number of tariffs is defined by 8 energy tariffs.

b) Concurrent tariff structure – 2 concurrent contracts

4 seasons	
4 day types	
tariff contract 1	**tariff contract 2**
4 energy tariffs for 3 measuring quantities flexible assigned to different day types	**4 energy tariffs for 3 measuring quantities flexible assigned to different day types**
1 demand tariff for 1 measuring quantity flexible assigned to different day types	**1 demand tariff for 1 measuring quantity flexible assigned to different day types**

Using the concurrent tariff structure (2 different contracts) up to 3 different measuring quantities (+A, -A,) can be used with 4 energy tariffs for each contract..
For every tariff register up to 15 monthly data are provided.

Example:

Measuring of active energy +A in 2 different contracts. Therefore the attached register will be used

Tariff contract 1:

1.8.1 Active energy, +A, tariff 1 of contract 1
1.8.2 Active energy, +A, tariff 2 of contract 2
1.8.3 Active energy, +A, tariff 3 of contract 2
1.8.4 Active energy, +A, tariff 4 of contract 2

Tariff contract 2:

1.8.5 Active energy, +A, tariff 1 of contract 2
1.8.6 Active energy, +A, tariff 3 of contract 2
1.8.7 Active energy, +A, tariff 4 of contract 2
1.8.8 Active energy, +A, tariff 4 of contract 2

The register 1.8.0 is the total active energy register and is always the same as the sum of the 4 tariff registers of both contracts.

6 Display Control

6.1 Display

The LCD of the AS3000 has the following format:

- LCD size: 59,1mm x 27,5mm
- Digit size: 10,1mm x 4,9mm

The digits for the LC display of the AS3000 you will find in Fig 2:

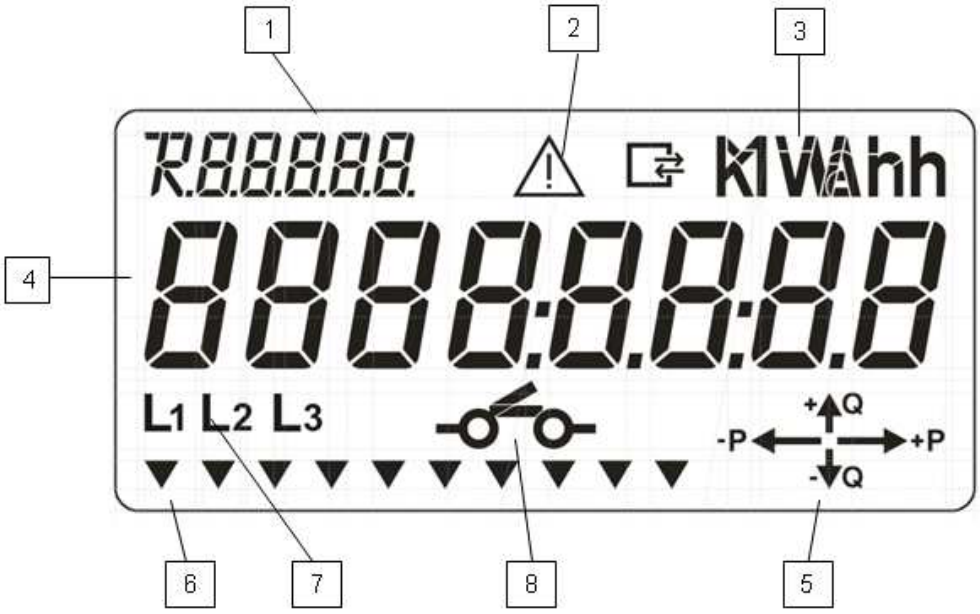
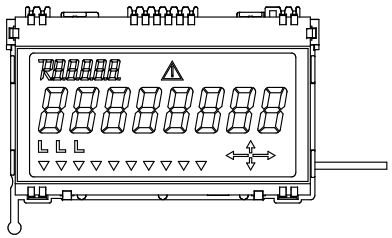
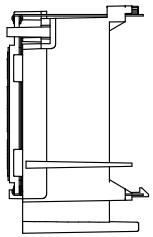


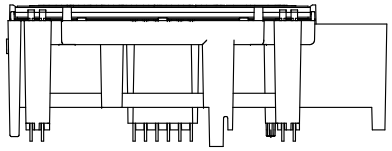
Fig. 2 LC display of the AS3000

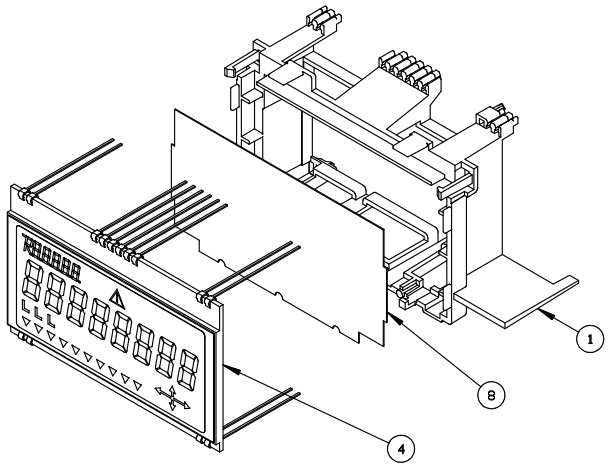
No.	Description
1	Identifier
2	Error indicator
3	Unit of measuring quantity
4	Measuring quantity
5	Energy direction indicator
6	Tariff information, etc
7	Phase indication
8	Position of the integrated disconnect relay

DRG No. LK0108	DO NOT SCALE	DIMENSIONS ARE IN mm	THIRD ANGLE









			10		
			9		
		1	8	FOIL	LK9066 001 A4
			7		
			6		
			5		
		1	4	LCD DISPLAY	GWMS10061-LCM E
			3		
			2		
		1	1	LCD MOUNT	LK6067 001 A2
			REF	DESCRIPTION	MATERIAL
X			004		
	X		003		
		X	002		
			001	ASSEMBLY DISPLAY	
			PART	DESCRIPTION OF ASSEMBLY	

FINISH - CLEAN, TO BE SUPPLED IN SUITABLE PACKAGING TO PREVENT DAMAGE
HANDLING AND PACKAGING TO INCLUDE PROTECTION AGAINST ESD
(PROTECTIVE FILM TO REMAIN IN PLACE ON FRONT OF LCD)

JG0551

A	B	
DATE 27 4 16	JM 6 7 16	ECN4540-11

elster

ELSTER Metering Systems
Tollgate Business Park, Beaconside, Stafford ©

TITLE ASSEMBLY - DISPLAY				AS3000
SCALE FULL SIZE				DRAWN J MASKERY
DRG. No. LK0108		SHEET NUMBER 1	NEXT SHT. NUMBER -	

WHEN QUOTING THE DRAWING NUMBER PLEASE STATE LETTER OF ISSUE

A3 297 x 420

NMi

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15 Security functions

15.1 Error messages

The AS3000 electronic meter regularly executes self-test routines running in the background. These are used to test all important parts for proper functioning.
If there is a malfunction or an operator error, the error messages and/or diagnostic alarms on the display will output a detailed error Identifier, which can be evaluated via the optical or electrical interfaces. It can contain one or more error messages.

15.2 Error messages

There is also an option for displaying the error message in conformity with the OBIS Identifier Number system (Identifier "F.F"). Up to 4 groups of errors are supported. The significance of the individual bits in each group can be selected on a manufacturer-specific base. In the AS3000 meter, the following specifications for fatal errors apply, beginning from the left:

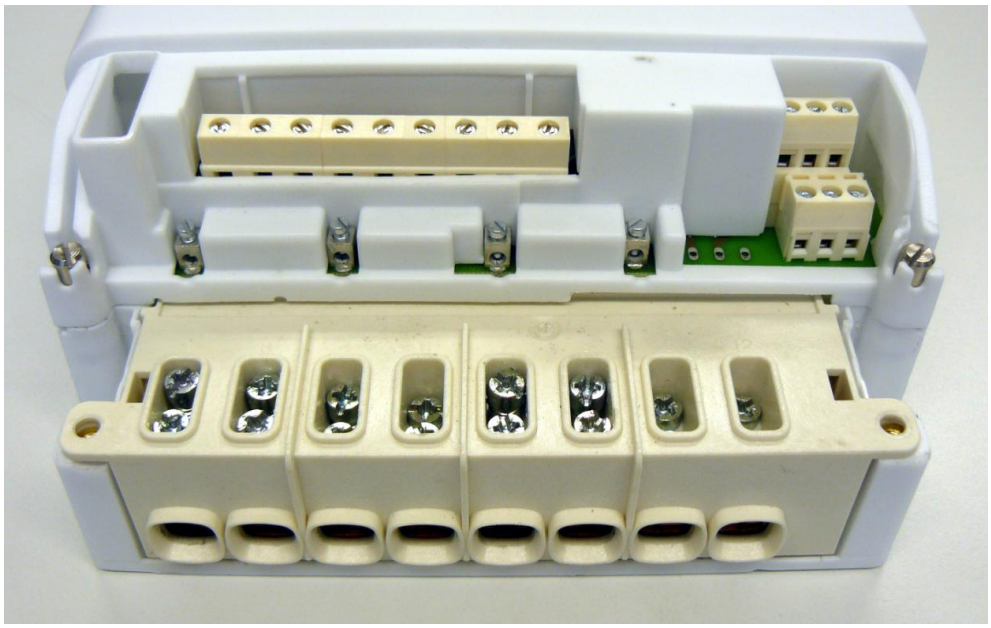
If any error condition (F.F, F.F.1, F.F.2) will occur, an alarm indicator on the LCD will be activated (see chapter 6).

15.2.1 Certification relevant alarms

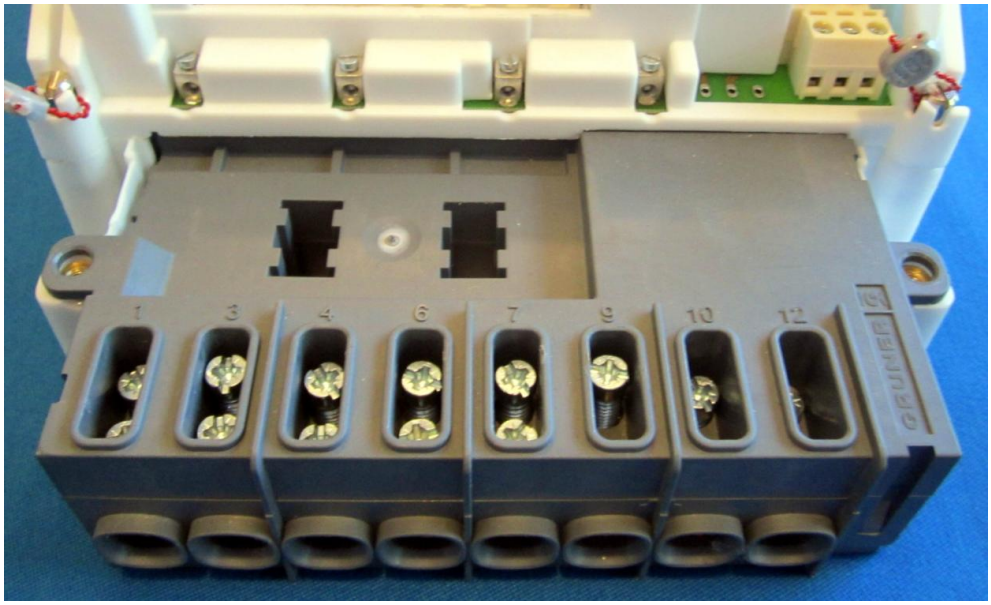
Error identification with ODIS Identifier F.F
If an error of this kind occurs, the meter's certification will be cancelled, and the display will be frozen ("**F.F * * * * * * * * **"). The error identifier can also be read out through the electrical or optical interface.

```
 0  0  0  0  0  0  0  0
 |  |  |  |  |  |  |  |
 |  |  |  |  |  |  x  x:   gen.: other fatal errors
 |  |  |  |  x  x:         gen.: fatal checksum errors
 |  |  |  |  0  1:         checksum error of parameterization class
 |  |  |  |  0  2:         checksum error of billing data
 |  |  |  |  0  4:         checksum of ELSTER parameterization class
 |  |  |  |  1             main cover removal detection  (configurable)
 |  |  x :                 gen.: fatal error during read or write operation
 |  |  0  1:               I²C-Bus-error
 |  |  0  2:               communication error with large load profile storage
 |  |
 x  x:
```

Terminals: **AS3000/AS3500 (Direct connected Type)**

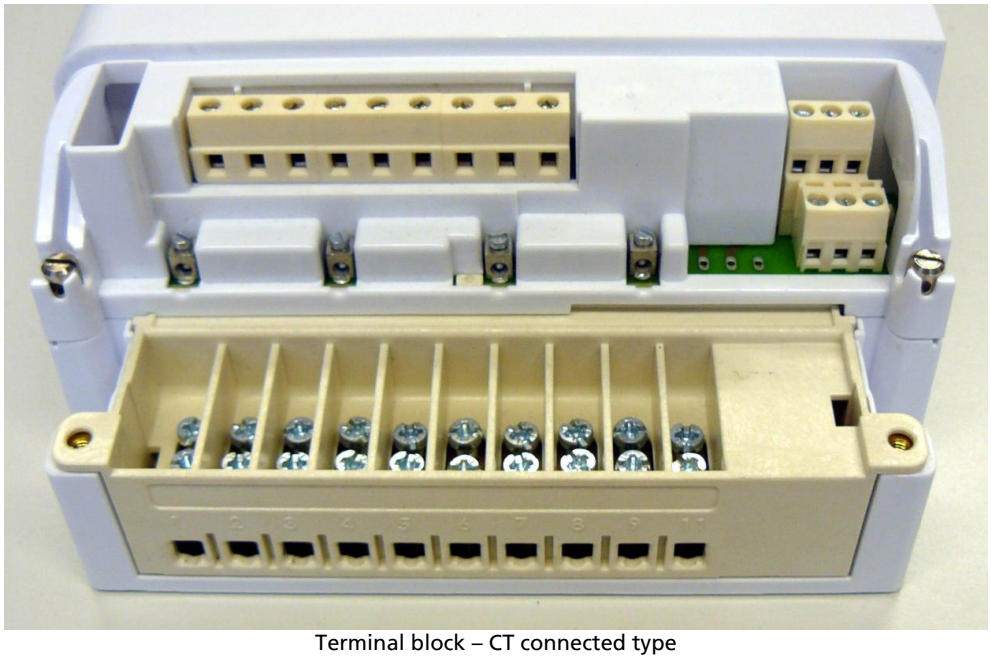


Terminal block – Direct connected type

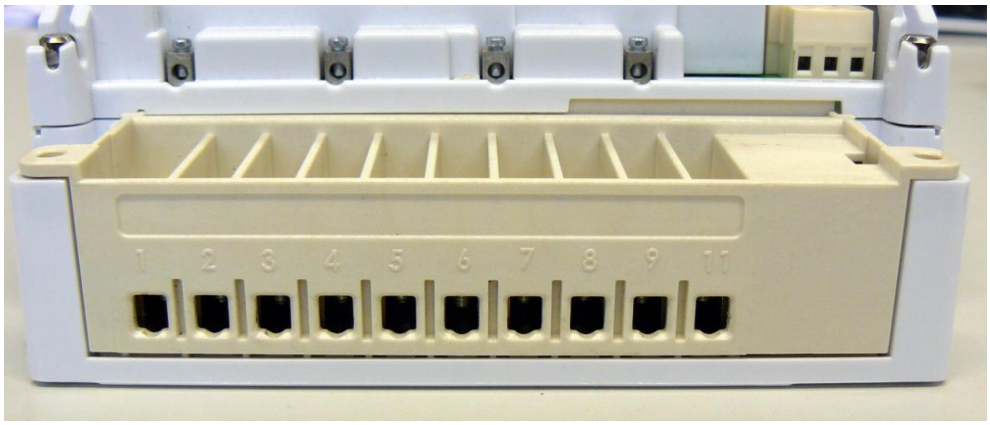


Terminal block – Direct connected type (with disconnect relay)

Terminals: **AS3500 (CT connected type)**



Terminal block – CT connected type



Terminal block – CT connected type

15.10.2 Hardware protection

The AS3000 meter can be configured by using one of its interfaces (electrical or optical). The setting parameters are secured by a meter password and / or demand reset button, terminal cover, IEC address (see chapter 12.8).
Billing parameters can optionally secured by an hardware jumper, which must be operated as follows:

- After opening the meter main cover, the user has access to the parameterization button.
- After setting the jumper (2 pins will be connected) the meter parameterization mode is enabled. All cursors on the LCD are flashing
- After removing the jumper the meter parameterization is disabled. Only setting parameters can be changed anymore (see chapter 11)

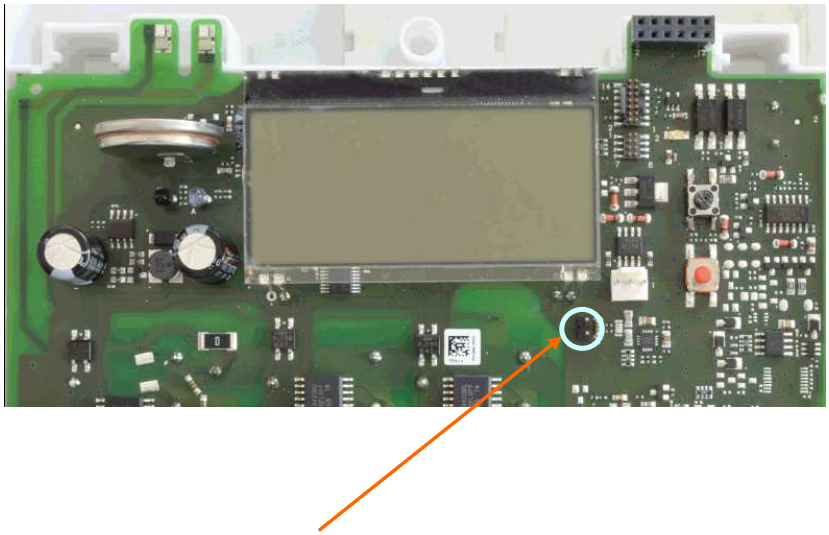
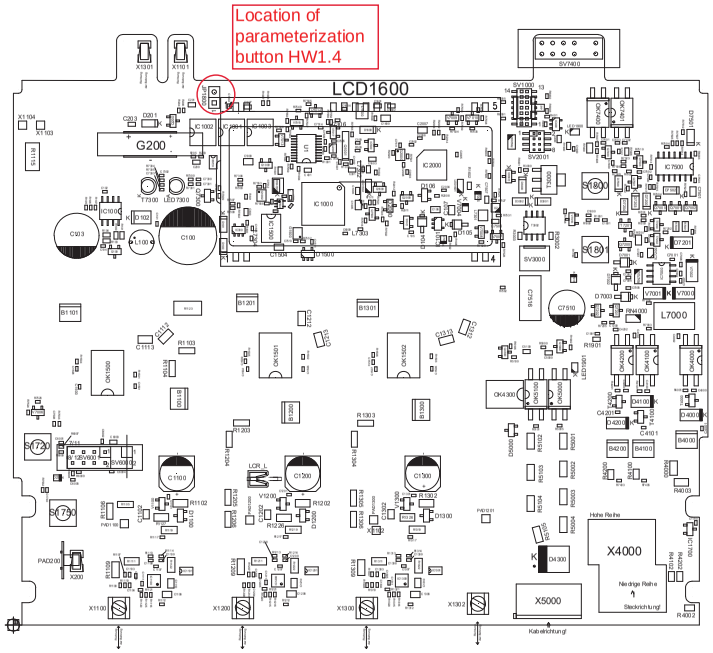


Fig 17: Parameterization button of the AS3000

Layer(s):	
	Assembly Top
	Legend



	Funktionsstand		Datum	07.06.2019	AS3000V Rev.: 1.4b	ELSTER	(Lang)	Kunde-Projekt-Nr.	
	Erzeugnisstand		Bearbeitet	DH				Kunde-PCB-Nr.	
	Unterlagenstand		Gepruefft					BMK-Projekt-Nr.	
			Frei gegeben		Ersetzt	Ersetzt durch		BMK-PCB-Nr.	

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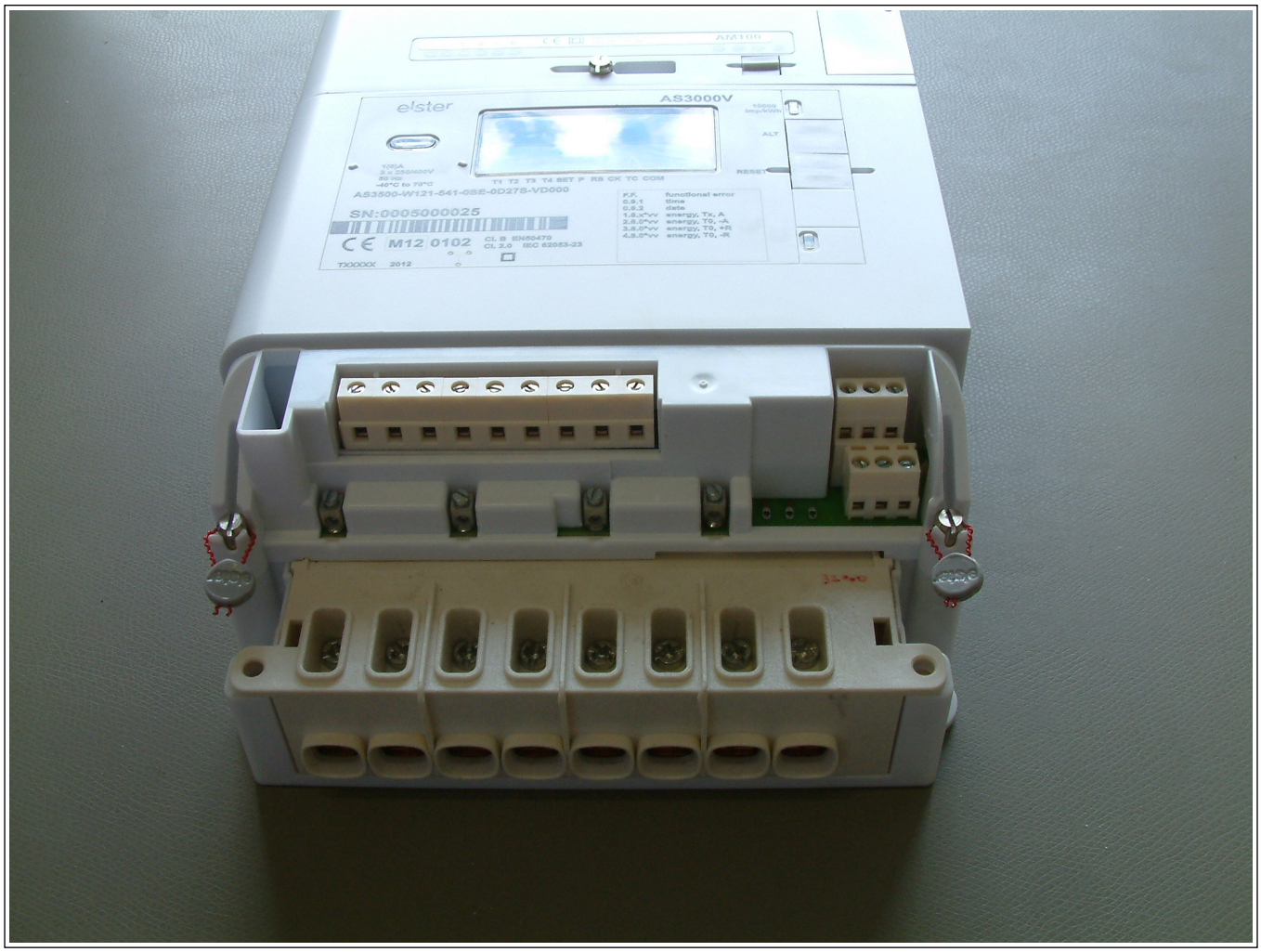
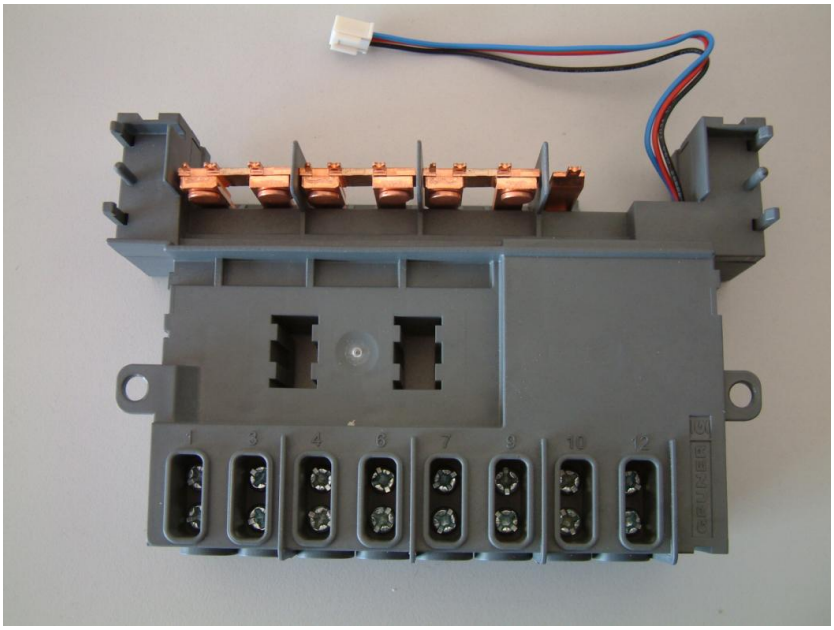
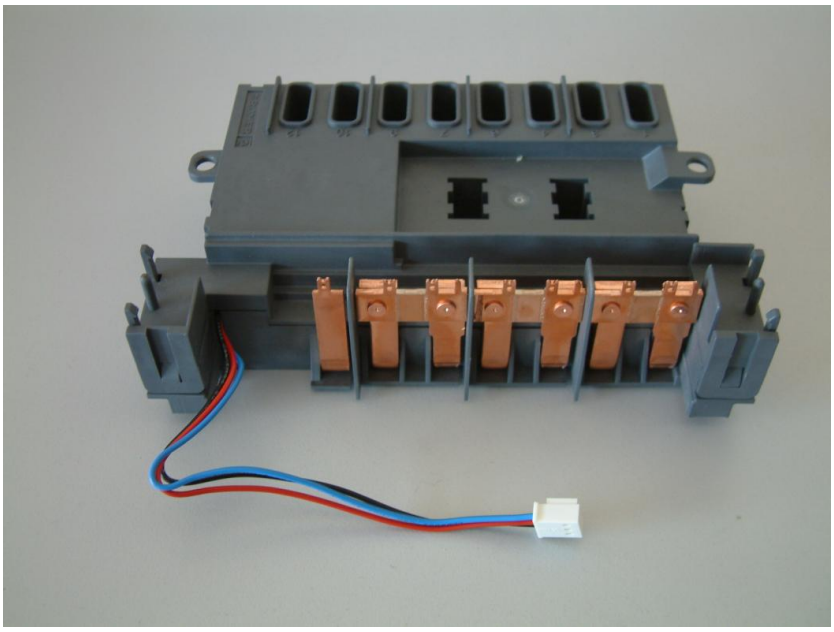

elster
AS3000V
AS3500-W121-541-0SE-0D278-VD000
SN:0005000025
M12 0102

Breaker **Elster type A1440**





10205-09

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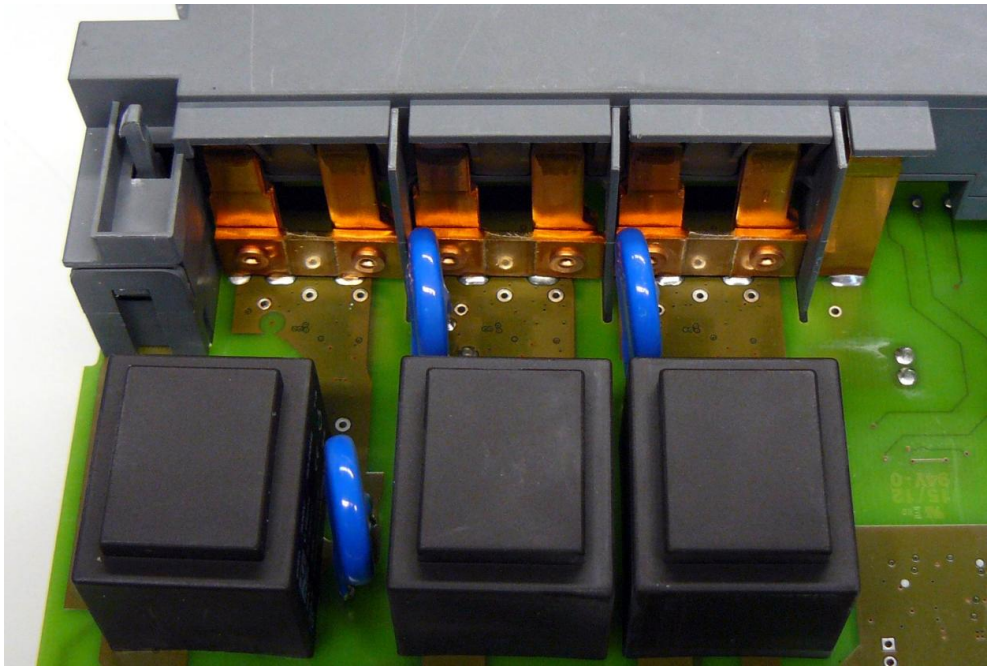
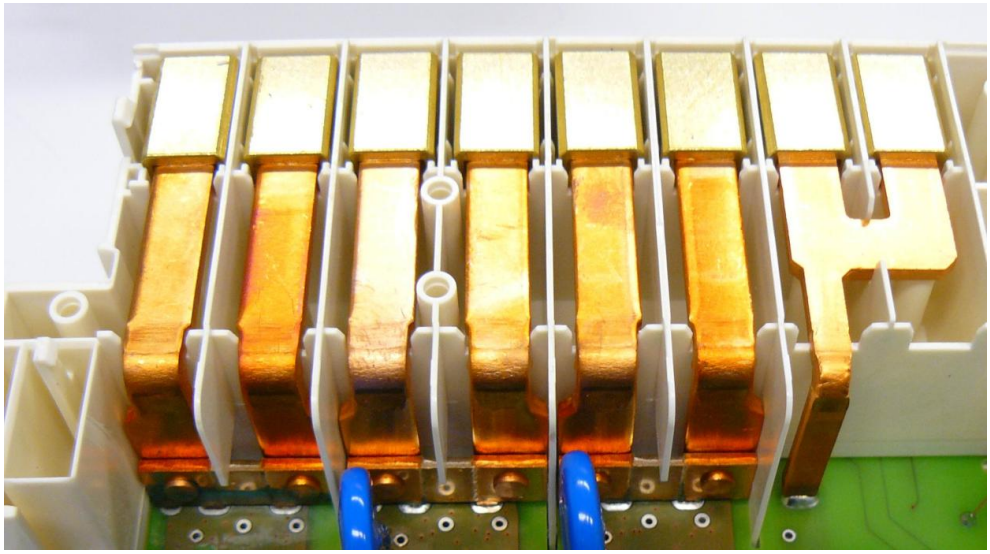
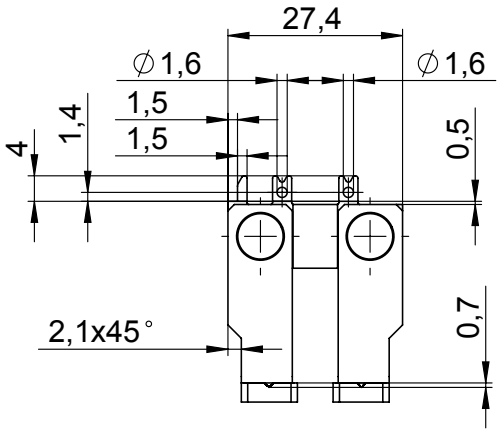
Sensor: **AS3000/AS3500 (Direct connected Type)**

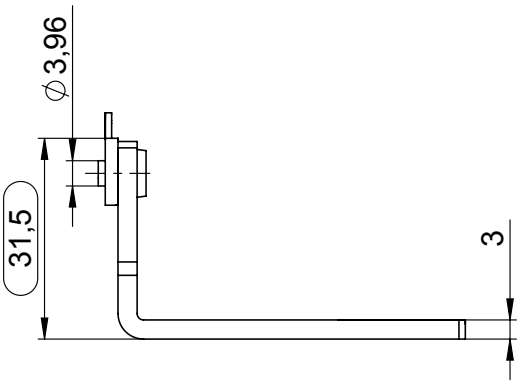


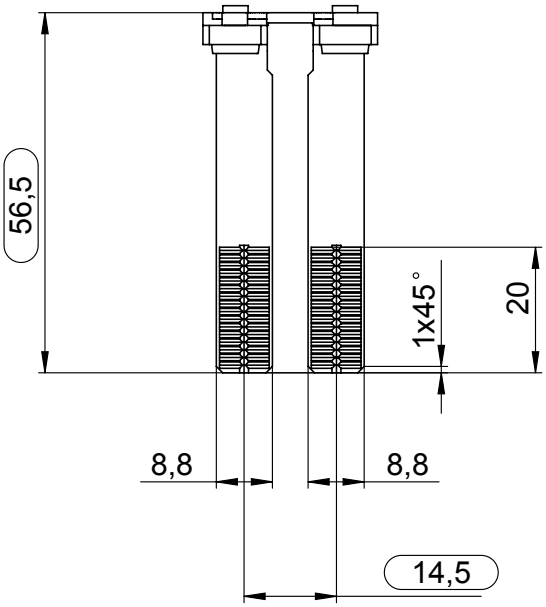
Shunt – Direct connected type (disconnector type)

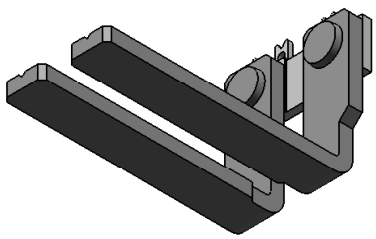


Shunt – Direct connected type



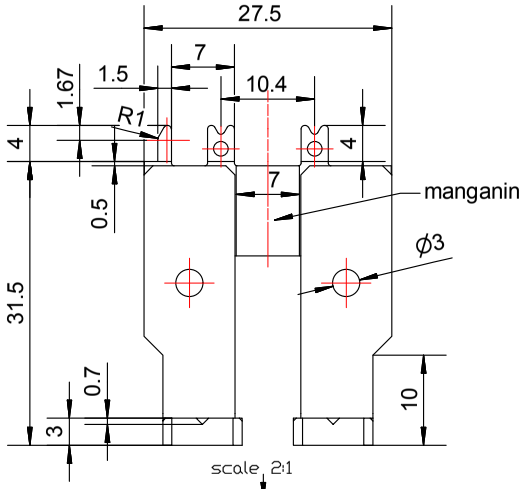




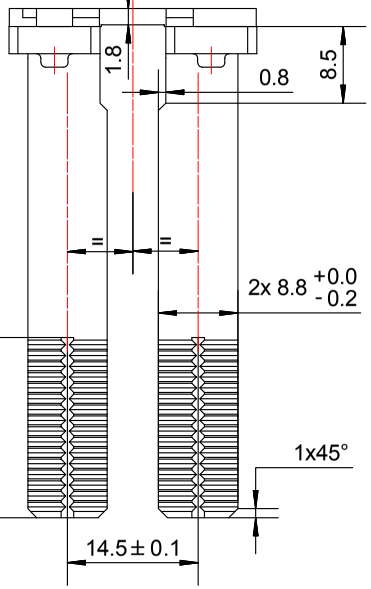


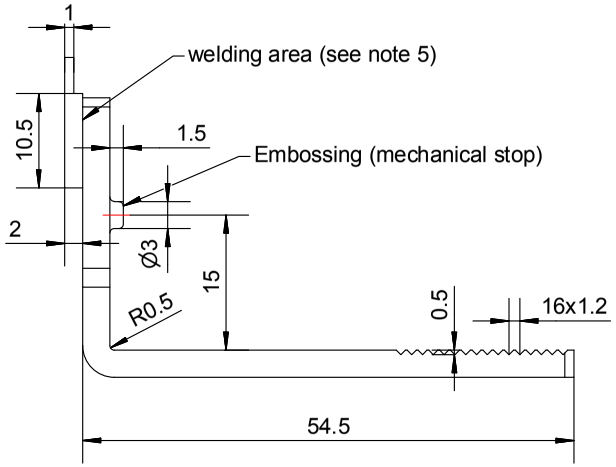
Allgemeintoleranzen DIN ISO 2768 - Für Nennmaße < 0,5mm gilt ±0,05		Winkel	m		Datum	Name	Oberfläche:	Meßpunkt Oberflächen besch.-dicke
		Gerad.-/Ebenheit	K	Gez.	16.09.08	C.Sprenger		
		Rechtwinkligkeit	K	Gepr.	16.09.08	R.Schmelz	Werkstoff/Halbzeug: ECu	Oberfläche nach DIN ISO 1302 Rz10
Längenmaße	m	Symmetrie	K	Prüfmaß				
Radien & Fasen	m	Lauf	K	A cpk ≥ 1,67			Benennung: Shunt	Masse [g]: ca.44.34
Schutzvermerk nach DIN 34 beachten				B cpk ≥ 1,00				Maßstab: 1:1
				>>...<< Besonderes Merkmal			Zeichnung.-Nr.: EZ019-SHNT-101-B-.	Seite: 1
				Werkstückkanten nach DIN ISO 13715			Ausgangsteil:	Format: A4
2.	Ausgabe	16.10.08	CS	GRUNER Schalten und Bewegen			Ersatz für:	
1.	Ausgabe	16.09.08	CS	78564 Wehingen			Fehlende Maße und Daten müssen dem Modell zu entnehmen. Es gelten die Allgemeintoleranzen	
Ind.	Änd.-Nr.	Datum	Name				Alle Maße sind Fertigmaße [Rohteilmaße]	

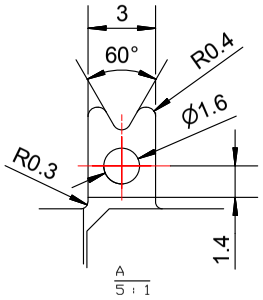
DRG No.	DO NOT SCALE	DIMENSIONS ARE IN mm	FIRST ANGLE

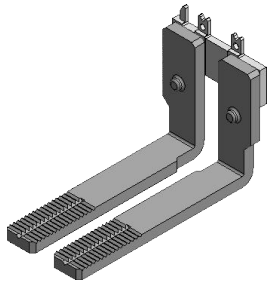


scale 2:1









Scale 1:1

Note:

1. Shunt copper/manganin/copper 170 ± 5% uΩhms.
Electron beam welded block.
23°C 170 uΩhm
0°C ±0.1%
75°C ±0.2%
150°C ±0.6%

2. Shunt terminal material: copper, Cu-ETP (C11000) 3.00±0.04
3. General tolerances according to ISO 2768 -fK
4. Shunt width/thickness can be adjusted.
5. Welding area to withstand a torque of 4Nm
6. Finish clean, no burrs.

A	HONEYWELL	ELSTER Metering Systems Timisoara Airport Park, Giarmata ©		
DATE 04 03 19	TITLE Shunt			Project AS3000 v2
	SCALE 2:1; 5:1			DRAWN Popa D.
	DRG. No. LA3004048	SHEET NUMBER 1	NEXT SHT. NUMBER –	

WHEN QUOTING THE DRAWING NUMBER PLEASE STATE LETTER OF ISSUE

A3 297 x 420

NMi

Doc no	10449/11-03
Page	1 of 1

elster

DRG. No.	SHEET NUMBER	NEXT SHT. NUMBER
LA3002701	1	2

TITLE ASSY – SHUNT

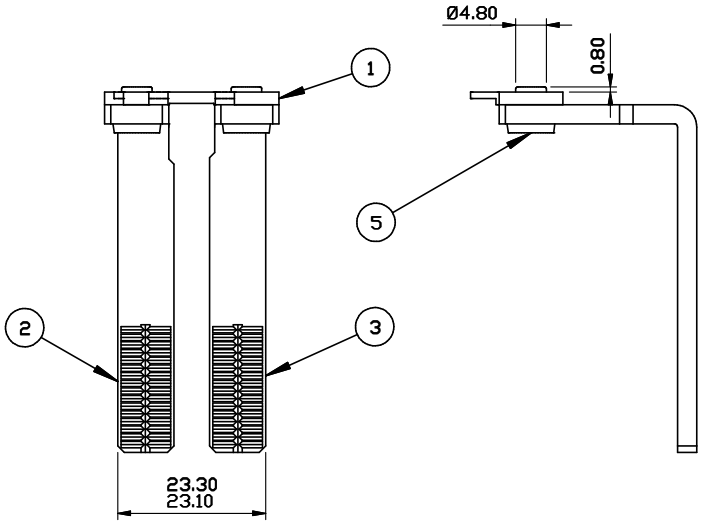
A1440
AS3000

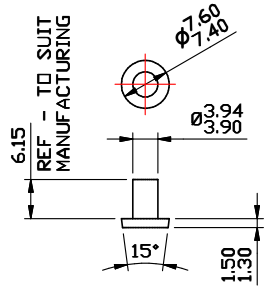
SCALE 1:1

LA3002743

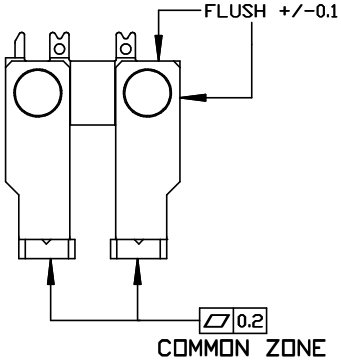
003	002	001	PART	DESCRIPTION OF ASSEMBLY
		X	001	ASSY SHUNT

			REF	DESCRIPTION	MATERIAL
		1	1	SHUNT	SEE SHEET 2
		1	2	SHUNT – LH LEG	SEE SHEET 3
		1	3	SHUNT – RH LEG	SEE SHEET 4
			4		
		2	5	RIVET	COPPER Cu-ETP

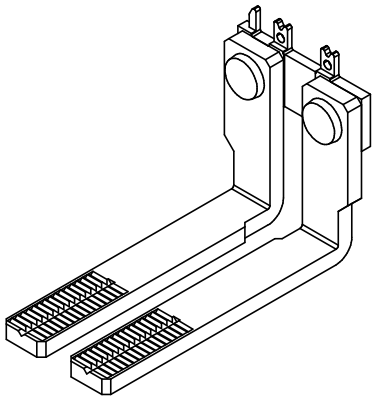




RIVET



COMMON ZONE



RIVET JOINT TO WITHSTAND A TORQUE OF 3.4Nm

FINISH – CLEAN (FREE FROM BURRS)

© ELSTER Solutions GmbH Steinern Str. 19-21 55252 Mainz-Kastel
ORIGINALDRG. FRAME SIZE 190 x 277 DO NOT SCALE DIMENSIONS ARE IN mm
THIRD ANGLE

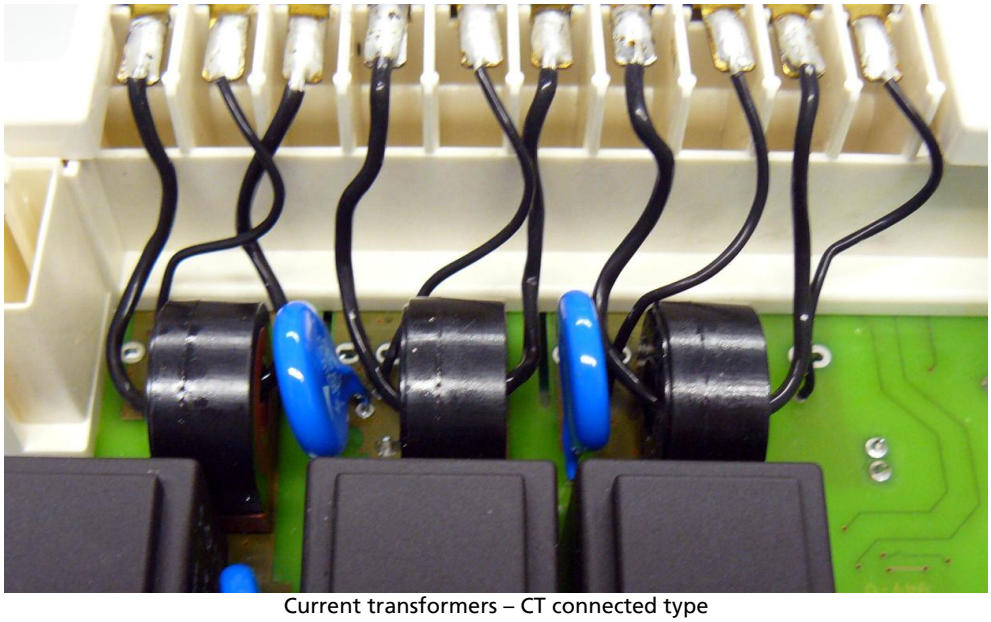
A		DRAWN J MASKERY
DATE 19 15		

A4 210 x 297

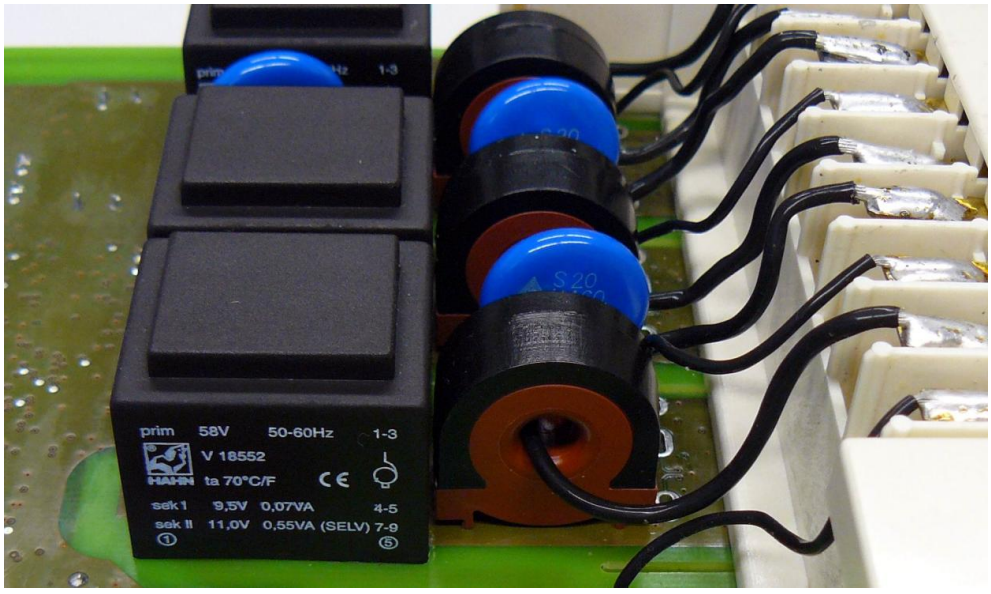
WHEN QUOTING THE DRAWING NUMBER PLEASE STATE LETTER OF ISSUE

NMi

Doc no	10449/11-04
Page	1 of 1



Current transformers – CT connected type

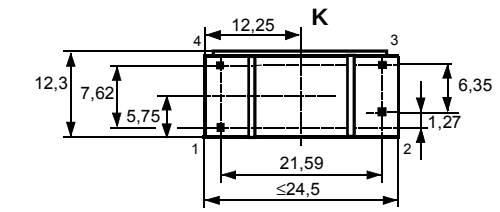


Current transformers – CT connected type

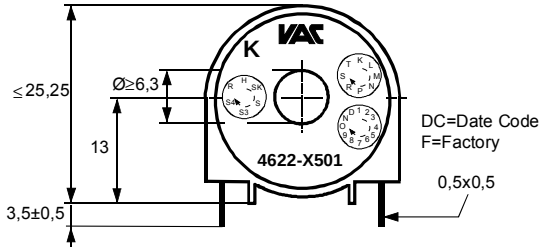
VACUUMSCHMELZE	**DATENBLATT / Specification**	**Sach Nr.:** Item no.: **T60404-E4622-X501**

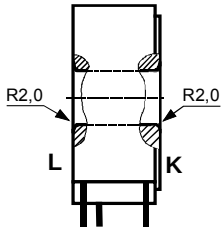
K-Nr.: 22461 K-no.:	Wechselstromwandler / Current Transformer	Datum: 18.02.2009 Date:
Kunde: Typenelement / Standard Type Customer	Kd. Sach Nr.: Customers part no.:	Seite 1 von 2 Page of

Maßbild (mm): Freimaßtoleranz DIN ISO 2768-c
Mechanical outline General tolerances



Tolerances grid distance±0,2mm
(Toleranz der Stiftabstände±0,2mm)





Anschlüsse:
Connections:

Leerstifte: Nr. 2+3
Dummy pins: no.2+3

Anschlußschema:
Schematic diagram

ü = (1) : 2000

Betriebsdaten/Charakteristische Daten (Richtwerte):
Operational data/characteristic data (nominal values):

R_{Cu2} = 115 Ω (nominell) R_{Cu2} ≤ 126 Ω
I_N = 1 (6) A
f = 50 Hz
R_B = 100 Ω
Umgebungstemperatur/ambient temperature: -40°C ..+70°C
Lagertemperatur/storage temperature: -40°C...+85°C

Prüfung: (V: 100%-Test; AQL...: DIN ISO 2859-Teil1)
Inspection

1) (AQL 1/S4) M3014: $U_{p,eff}$ = 4,0 kV, 2 s , N2 gegen/to Durchsteckdorn (∅ 6,0mm)/currentwinding

2) (AQL 0,25) M3011/1: L_2 = 110 H ± 30% f = 50 Hz, $U_{AC,eff}$ =230 mV

3) (V) M3011/6 Sonderprüfung (Stromtrafoprüfgerät N4):
special measuring (current transformer measuring instrument N4):
Polarität / Übersetzungsverhältnis: Toleranz ± 1% (± 20 Wdg.)
Polarity / Turns ratio: Tolerance (± 20 turns)

4) (AQL 1/S4) M3200: Mechanische Prüfung
Mechanical test

5) (Fix05) M3290: Solderability test acc 1
Lötbarkeitstest nach 1

Siehe Seite 2
See page 2

Weitere Vorschriften: Gehäusewerkstoff, Gießharz und Draht UL-gelistet
Applicable documents: Housing material, casting resin and wire UL - listed

Datum	Name	Index	Änderung
18.02.09	HL	82	Write error: Mechanical outline modified and height changed from 11,5 into 12,3. M3290 added acc. SAP-Plan

Hrsg.: KB-E editor	Bearb: HL. designer		KB-PM B: Ert. check			freig.: prs. released

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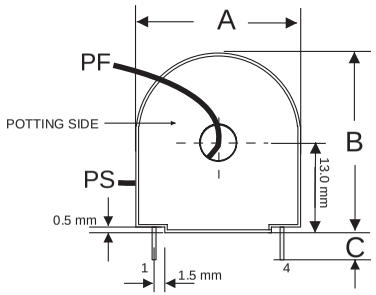
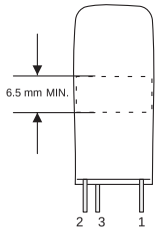
FALCO RESERVES THE OPTION TO CHANGE: 1. ANY WIRE COLORS 2. ANY PLASTIC COLORS 3. ANY CORE (PAINTED TOROID) COLOR UNLESS OTHERWISE SPECIFIED.

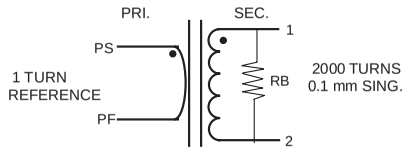
FRONT VIEW



RIGHT VIEW

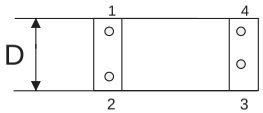


SCHEMATIC

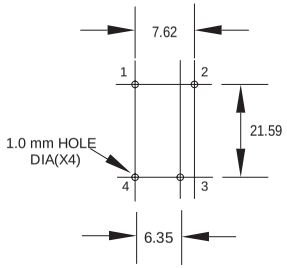


PRELIMINARY

BOTTOM VIEW



PCB LAYOUT



MECHANICAL

A MAX.	B MAX.	C ± 0.5	D MAX.
25.5	25.25	3.5	12.7

ELECTRICAL PARAMETERS:

1. INDUCTANCE(1-2): 75 H MIN. @ 50 Hz, 0.25Vac.
2. DCR(1-2): 126 OHMS MAX. @ 25°C.
3. Rb=15 OHMS (NOT BUILT-IN).
4. HIPOT: 4.0 KVrms, 60 SEC. (WITH A 6.0mm ROUND BARE THROUGH CENTER HOLE. TO WINDING LEADS).
5. TURNS RATIO: 1:2000 ± 1.0%.
6. OPERATING TEMPERATURE RANGE: -40°C TO +70°C.
7. INPUT CURRENT: 40 AMPS MAX @ 60Hz
8. OUTPUT VOLTAGE 0.85 Vp-p = 0.3 Vrms @ 40 AMPS INPUT =7.5 mV/AMP

NOTES:

1. PRIMARY IS SUPPLIED BY END USER.
2. EPOXY POTTED.
3. RoHS COMPLIANT PART.
4. ALL DIMENSIONS ARE IN mm.

FALCO PART NUMBER: T75021	IML REV. N/A	FALCO electronics
DESCRIPTION: CT FOR 40Amps		ORIGINATOR: Tina Yuan
CUSTOMER PN: REV:	WEIGHT (GR):	APPROVED BY: Javier Duran
SAMPLE REQUEST:	DATE: (MM/DD/YY)* 03.10.09	APPROVED BY:
SCALE: NONE	SHEET: 1 OF 2	TOLERANCES: UNLESS OTHERWISE SPECIFIED DECIMALS/ FRACTIONS .XXX +/- .010" .XXX +/- .250mm .XX +/- .030" .XX +/- .800mm .X +/-.050" .X +/-1.300mm

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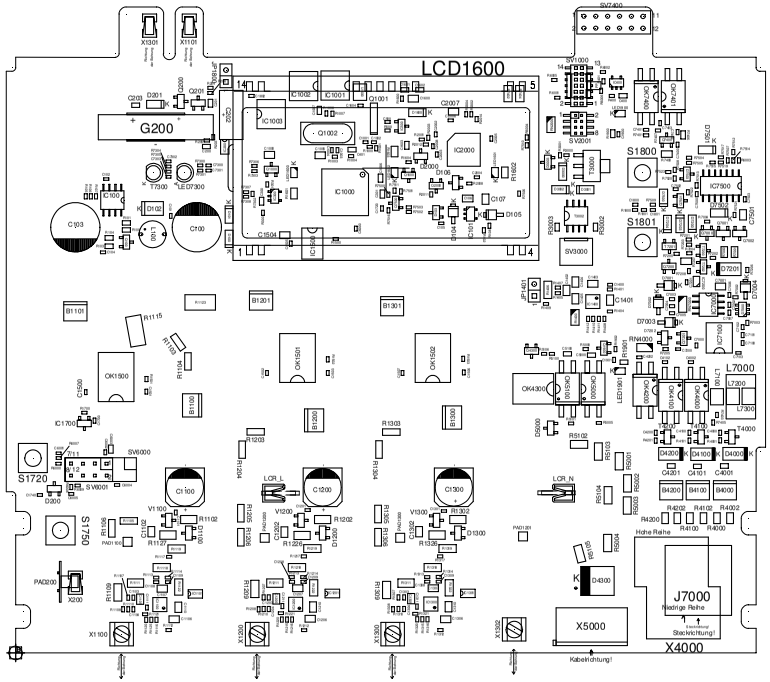
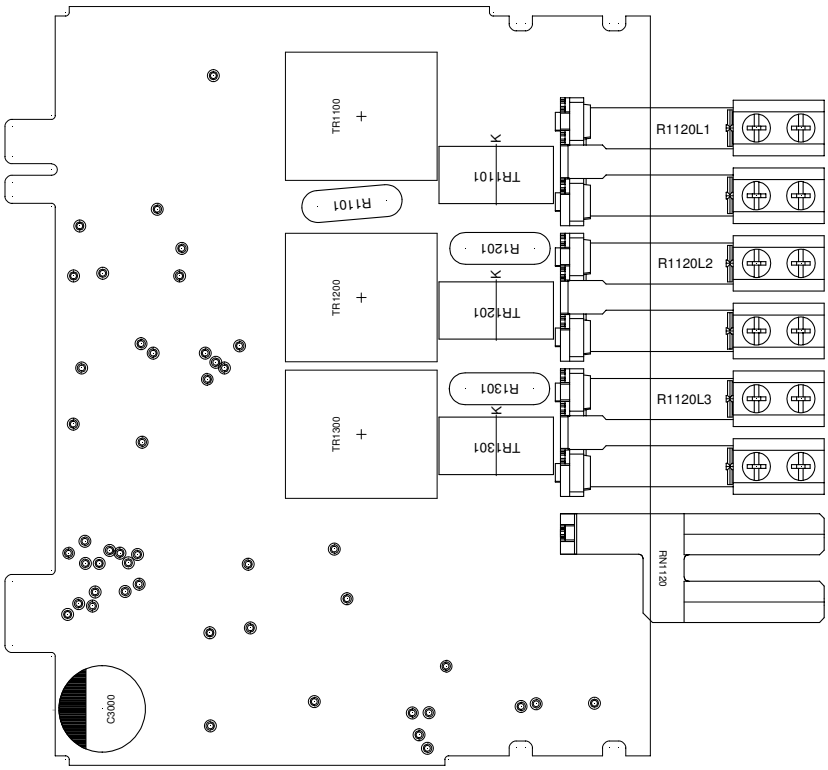
Layer(s):	
	Assembly Top
	Legend



	Funktionsstand		Datum	06.06.2012	AS3000 Rev.: 1.2A	ELSTER	(Logo)	Kunde-Projekt-Nr.
	Erzeugnisstand		Bearbeitet	SS/JK				Kunde-PCB-Nr.
	Unterlagenstand		Geprueft					BMK-Projekt-Nr. abc074rd1
			Frei gegeben		Ersetzt	Ersetzt durch		BMK-PCB-Nr.

Doc no	10449/0-15
Page	1 of 2



Legend
Assembly Bottom
Layer(s):

Funktionsstand		Datum	06.06.2012	AS3000 Rev.: 1.2A	ELSTER
Erzeugnisstand		Bearbeitet	SS/JK		
Unterlagenstand		Gepruft		Ersetzt	Ersetzt durch
		Frei gegeben			

Kunde-Projekt-Nr.
Kunde-PCB-Nr.
BMK-Projekt-Nr. abc074d1
BMK-PCB-Nr.

Component list AS3000V / AS3500V - Rev 1.2a			
Ref	**BMK-No.**	**Part name**	**manufacturer**
Powersupply 5V			
C100	02-1967-1	C 1000µF 20% 10V RM5 Elko Pinlänge 3.5mm -40/+105°C	RUBYCON (F)# ,10YXG1000M EFC CE 10x16; RUBYCON (F)# ,10YXG1000MCE 10x16
C101	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C102	02-1906	C 220pF 5% 50V 0402 Keramik X7R	AVX (F)# ,04025C221JAT *2A; Samsung (G)# ,CL05B221KB5NNNC (CL05B221KBNC); KYOCERA (B)# ,(CM)05X7R221J50*AH
C103	02-3712	C 330µF 20% 50V RM5 Elko long life,low impeda ESR78 -40/+105°C	RUBYCON (F)# ,50 YXF 330M CE 10x20; RUBYCON (F)# ,50 YXF 330M CE EFC 10x20
C104	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C105	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C106	02-2451	C 1µF 10% 25V 0805 Keramik X7R -55/+125°C	Murata (F)# ,GRM21BR71E105KA99L; YAGEO (F)# 222291015663,CC0805KKX7R8BB105; TDK (F)# ,C2012X7R1E105K
C107	02-2451	C 1µF 10% 25V 0805 Keramik X7R -55/+125°C	Murata (F)# ,GRM21BR71E105KA99L; YAGEO (F)# 222291015663,CC0805KKX7R8BB105; TDK (F)# ,C2012X7R1E105K
D100	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D101	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D102	08-0842	GL ES1D SMA Gleichrichter 140V 1A SMD -55/+150°C	PANJIT (F)# ,ES1D
D103	08-3456	D BAS40-06 SOT23 Schottky Ultra Fast 40V 120mA 250mW -55/+150°C	Onsemi (F)# ,BAS40-06LT1G; INFINEON (F)# ,BAS40-06 E6327; NXP (F)# ,BAS40-06+215
D104	08-3578	D SM2T6V8A DO-216AA Supressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A
D105	08-3578	D SM2T6V8A DO-216AA Supressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A
D106	08-1146	D BAS40 SOT23 Schottky 40V 120mA -65/+150°C single Diode	Onsemi (F)# ,BAS40LT1G; NXP (G)# 9340 345 30215,BAS40
IC100	11-8546	MC34063EBD SO8 Schaltregler adj. 1.5A -40/+125°C	ST (F)# ,MC34063EBD-TR
IC101	11-6112	NCP551SN33T1G SOT23-5 Spannungsregler 3.3V 0.15A Low Dropout -40/+85°C	Onsemi (F)# ,NCP551SN33T1G
L100	04-4089	Spule 100µH 10% 0,68A - 5,8x4,8mm Induktivität 0,70Rdc	Bourns (F)# ,SDR0604-101KL; Ole Wolff (F)# ,OWISF54-101K-R-T1-LF
Q100	08-3676	T PBSS5250T SOT23 PNP 50V 2A 480mW -65/+150°C	NXP (F)#,PBSS5250T
R100	01-0887	R 270R 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-2700-FL; YAGEO (F)# ,RC0603FR-07270RL
R101	01-0610	R 1K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-1001-FK; ASJ (F)# ,CR16-1001-FL; YAGEO (F)# ,RC0603FR-071KL
R102	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R103	01-1199-2	R 1R 1% 0.1W 0603 200ppm	ASJ (F)# ,CR16-1R00-FL; Yageo-Phycom (F)# ,RC0603FR-071RL; Yageo-Phycom (F)#,RC0603FR-131RL
R104	01-1199-2	R 1R 1% 0.1W 0603 200ppm	ASJ (F)# ,CR16-1R00-FL; Yageo-Phycom (F)# ,RC0603FR-071RL; Yageo-Phycom (F)#,RC0603FR-131RL
R105	01-2653	R 12K 1% 0.063W 0402 100ppm	ASJ (B)# ,CR101202FK; YAGEO (B)# ,RC0402FR-0712KL
R106	01-2653	R 12K 1% 0.063W 0402 100ppm	ASJ (B)# ,CR101202FK; YAGEO (B)# ,RC0402FR-0712KL
R107	01-4218	R 3.9K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04023K90 FKED; YAGEO (F)# ,RC0402FR-073K9L
R108	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
Battery Management			
C200	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C201	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C202	02-2247	C 0.22F 20% 5.5V RM5 Elko -25/+70°C	PANASONIC (F)# ,EECS0HD224V
C203	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
D200	08-1146	D BAS40 SOT23 Schottky 40V 120mA -65/+150°C single Diode	Onsemi (F)# ,BAS40LT1G; NXP (G)# 9340 345 30215,BAS40
D201	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8

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Ref	**BMK-No.**	**Part name**	**manufacturer**
G200	05-4694	RM5.0 3.0V CR2450 Lithium 560mAh Lötfahne stehend	RENATA (F)# ,CR2450 NRV-LF; VARTA (F)# ,06450 201 501; EEMB (F)# ,CR2450-PEN3
IC200	11-7207	BU4925 SSOP5 Reset -0.3-7.0V 2.5V Low Voltage Detector -40/+105°C	ROHM (F)#,BU4925G TR
PAD200	05-4684	Feder 8.7x18.3x0.8 Batteriekontakt	KEYSTONE (F)# Ettinger 15.83.313,108-2; RAMTRON (F)# ,108-2
Q200	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215
Q201	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215
R203	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R204	01-1927	R 1M 1% 0.063W 0402 100ppm	ASJ (F)# ,CR10-1004-FK; YAGEO (F)#,RC0402FR-071ML
R205	01-3307	R 10M 1% 0.063W 0402 100ppm	YAGEO (B)# ,RC0402FR-0710ML; Yageo-Phycom (B)# ,RC0402FR-0710ML
R206	01-1927	R 1M 1% 0.063W 0402 100ppm	ASJ (F)# ,CR10-1004-FK; YAGEO (F)#,RC0402FR-071ML
X200	05-4686	Befestigungselement 5x3x4 Feder	KITAGAWA (F)#,OG-503040
Powerfail			
C300	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C301	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
IC300	11-4892	BU4940G SSOP5 Reset 1.2-5.5V 4.00V µP Reset Circuit -40/+105°C	ROHM (F)# BU4940G -TR,BU4940G -TR
R300	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
R301	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)#,RC0402FR-072K2L
Reset			
C400	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C401	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
IC400	11-7459	BU4920 SSOP5 Spannungsüberwachung 0-7.0V 2.0V -40/+125°C	ROHM (F)#,BU4920G-TR
R400	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
R401	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)#,RC0402FR-072K2L
Temperature compensation			
C500	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
IC500	11-3784	LM60C SOT23-3 Temperatur-Sensor 2.7-10V -40/+125°C	National (F)#,LM60CIM3; National (F)# ,LM60CIM3X/NOPB
R500	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
MCOR (Renesas)			
C1000	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1001	02-1905	C 15pF 5% 50V 0402 Keramik NPO	kemet (F)# ,C0402C150J5G*ACTU; Samsung (G)# ,CL05C150JB5NNNC (CL05C150JBNC); Yageo-Phycom (F)# ,2238 869 15159
C1002	02-1905	C 15pF 5% 50V 0402 Keramik NPO	kemet (F)# ,C0402C150J5G*ACTU; Samsung (G)# ,CL05C150JB5NNNC (CL05C150JBNC); Yageo-Phycom (F)# ,2238 869 15159
C1003	02-2308	C 33pF 5% 50V 0402 Keramik NPO	Samsung (G)# CL05C330JB5NNNC,; Yageo-Phycom (F)# 223886915339,CC0402JRNP09BN330
C1004	02-2308	C 33pF 5% 50V 0402 Keramik NPO	Samsung (G)# CL05C330JB5NNNC,; Yageo-Phycom (F)# 223886915339,CC0402JRNP09BN330
C1005	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1006	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C1007	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
IC1000	11-7111	M38D29GFHP LQFP64 CMOS µComputer 16MHz 8Bit 2048 Byte RAM Renesas	Renesas (F)#,M38D29GFHP

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Ref	**BMK-No.**	**Part name**	**manufacturer**
IC1000		M38D29FFHP LQFP64	Renesas (F)# ,M38D29FFHP
IC1001	10-2588	M24256BRMN6TG SO8 EEPROM seriell 32kx8Bit 1.8-5.5V 150mil Body -40/+85°C	ST (F)# ,M24256-BRMN6T*
IC1002	10-2597	M24512-R SO8 EEPROM seriell 512kBit 1.8-5.5V -40/+85°C	ST (F)# ,M24512-RMN6TG; ST (F)# ,M24512-RMN6TP
IC1003	10-2597	M24512-R SO8 EEPROM seriell 512kBit 1.8-5.5V -40/+85°C	ST (F)# ,M24512-RMN6TG; ST (F)# ,M24512-RMN6TP
Q1000	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215
Q1001	09-2025	Q 32.768kHz - 7x1.5x1.4mm Grundwelle 12.5pF 20ppm@25°C -40/+85°C	SEIKO (F)# ,SSP-T7-F
Q1002	09-1954	Q 8.000000MHz HC49USSM 13,0x4,8x4,5mm Grundwelle 16pF 30ppm 50ppm@25°C -40/+85°C	AURIS (F)# ,Q-8.000000M HC49USSMD-F-30-50-E-16-TR
R1000	01-3307	R 10M 1% 0.063W 0402 100ppm	YAGEO (B)# ,RC0402FR-0710ML; Yageo-Phycom (B)# ,RC0402FR-0710ML
R1001	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-07100KL
R1003	01-1927	R 1M 1% 0.063W 0402 100ppm	ASJ (F)# ,CR10-1004-FK; YAGEO (F)# ,RC0402FR-071ML
R1004	01-4212	R 5.1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04025K10FKED; YAGEO (F)# ,RC0402FR-075K1L
R1006	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L
R1007	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L
SV1000	03-4560	SL 2x7p 1.27mm pitch male 180°	SAMTEC (F)# ,FTSH-107-01-L-DV-K-P-TR
Measuring System 1			
B1100	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
B1101	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
C1100	02-1943	C 47µF 20% 50V SMD-F Elko -25/+105°C	NIPPON CHEMI (F)# ,EMLE500ADA470MHA0G
C1101	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C1102	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1103	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1104	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1105	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y 102 KFAT
C1105		C 2.2nF 10% 50V 0805 Keramik X7R	
C1106	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1107	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y 102 KFAT
C1108	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1109	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1110	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1111	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
D1100	08-0967	D BZX84-C4V7 SOT23 Z-Diode 4.7V 300mW -65/+150°C	PHILIPS (F)# ,BZX84-C4V7; NXP (F)# ,BZX84-C4V7
IC1100	11-7911	STPMS1 QFN16 AD 3.2-5.5V 16Bit Smart Sensor -40/+85°C	ST (F)# ,STPMS1BPQR
IC1101	11-8919	BU4832 SSOP5 Spannungsüberwachung 0-7.0V 3.2V -40/+125°C	ROHM (F)# ,BU4832GTR
R1101	01-0020	RV Varistor 460V 10% 195W RM10 8000A geschnitten!	EPCOS (F)# SIOV-S20K460,B72220-S461-K502; EPCOS (F)# B72220-S461-K502,SIOV-S20K460
R1102	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW1206K60FKEA,CRCW1206 BC 5K60TK 100 1%; ASJ (B)# ,CR32-5601-FL

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Component list AS3000V / AS3500V - Rev 1.2a			
Ref	**BMK-No.**	**Part name**	**manufacturer**
R1103	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)# ,SMM020450 150K 1%B3
R1104	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)# ,SMM020450 150K 1%B3
R1105	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)# ,SMM020450 150K 1%B3
R1106	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)# ,SMM020450 150K 1%B3
R1107	01-1995	R 47K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW040247K0FKEA; YAGEO (F)# ,RC0402FR-0747KL
R1108	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW040200002E0ED; VISHAY (F)# ,CRCW040200002ZSED; YAGEO (F)# ,RC0402JR-070RL
R1109	01-1727-1	R 270R 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204-50 1% BL 270R; VISHAY (F)# ,MMA02040C2700FB300; YAGEO (F)# ,ZC0204FKE07270R
R1109	01-1122-2	R 475R 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM020450 475R 1%B3 e3; Vishay-Beysc (F)# ,SMM020450 475R 1%B3 e3; Draloric (F)# ,SMM020450 475R 1%B3 e3
R1109	01-1124	R 1kR 1% 0.25W Minimelf 50ppm	
R1110	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
R1110	01-3474	R 220R 1% 0.063W 0402 100ppm	
R1111	01-6569	R 2.2M 1% 0.25W 1206 100ppm	VISHAY (F)# ,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L
R1112	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1113	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1114	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1115	01-3586-1	R 0R x% 1W 2512	YAGEO (F)# 232276290000,RC2512JK-070RL
R1116	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW040200002E0ED; VISHAY (F)# ,CRCW040200002ZSED; YAGEO (F)# ,RC0402JR-070RL
R1117	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW040200002E0ED; VISHAY (F)# ,CRCW040200002ZSED; YAGEO (F)# ,RC0402JR-070RL
R1118	01-1689	R 18R 1% 0.25W Minimelf 50ppm	Vishay-Dralo (B)# ,SMM0204 50 18R 1% B3 e3; Vishay-Dralo (B)# ,SMM020401809FB300
R1119	01-1118	R 33.2R 1% 0.25W Minimelf 50ppm	Draloric (F)# ,SMM 0204 50 33R2 1% B0 e3; Draloric (F)# ,SMM0204 50 33R2 1% B3 e3
R1120	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW040200002E0ED; VISHAY (F)# ,CRCW040200002ZSED; YAGEO (F)# ,RC0402JR-070RL
R1121	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW040200002E0ED; VISHAY (F)# ,CRCW040200002ZSED; YAGEO (F)# ,RC0402JR-070RL
R1122	01-6569	R 2.2M 1% 0.25W 1206 100ppm	VISHAY (F)# ,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L
R1123	01-3586-1	R 0R x% 1W 2512	YAGEO (F)# 232276290000,RC2512JK-070RL
R1125	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW040200002E0ED; VISHAY (F)# ,CRCW040200002ZSED; YAGEO (F)# ,RC0402JR-070RL
R1127	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW12065K60FKEA,CRCW1206 BC 5K60TK 100 1%; ASJ (B)# ,CR32-5601-FL
TR1100	04-3102-abc	Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07VA Sek2 11V 0.55VA	Hahn (F)#,V 18274
TR1100	04-3400-abc	Trafo AS1440 127V	
TR1100	04-3401-abc	Trafo AS1440 58V, V18552	
TR1101	04-3049	Spule 110H 6A 24x12x25 Stromwandler 115Rdc	VAC (F)# ,T60404-E4622-X50182
V1100	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327
X1100	05-3333	SCHRAUBKLEMME 1p 90# RIA# 360410 ohne Drahtschutz	RIACON (F)# ,360410 ohne Drahtschutz; RIACON (F)# ,718408-0156
X1101	05-4686	Befestigungselement 5x3x4 Feder	KITAGAWA (F)#,OG-503040
Measuring System 2			

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Ref	**BMK-No.**	**Part name**	**manufacturer**
B1200	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
B1201	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
C1200	02-1943	C 47µF 20% 50V SMD-F Elko -25/+105°C	NIPPON CHEMI (F)#,EMLE500ADA470MHA0G
C1201	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C1202	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1203	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1204	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1205	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y 102 KFAT
C1206	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1207	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y 102 KFAT
C1208	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1209	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1210	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1211	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
D1200	08-0967	D BZX84-C4V7 SOT23 Z-Diode 4.7V 300mW -65/+150°C	PHILIPS (F)#,BZX84-C4V7; NXP (F)# ,BZX84-C4V7
IC1200	11-7911	STPMS1 QFN16 AD 3.2-5.5V 16Bit Smart Sensor -40/+85°C	ST (F)# ,STPMS1BPQR
IC1201	11-8919	BU4832 SSOP5 Spannungsüberwachung 0-7.0V 3.2V -40/+125°C	ROHM (F)#,BU4832GTR
R1201	01-0020	RV Varistor 460V 10% 195W RM10 8000A geschnitten!	EPCOS (F)# SIOV-S20K460,B72220-S461-K502; EPCOS (F)# B72220-S461-K502,SIOV-S20K460
R1202	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW1206K60FKEA,CRCW1206 BC 5K60TK 100 1%; ASJ (B)# ,CR32-5601-FL
R1203	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3
R1204	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3
R1205	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3
R1206	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3
R1207	01-1995	R 47K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW040247K0FKEA; YAGEO (F)# ,RC0402FR-0747KL
R1208	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1209	01-1727-1	R 270R 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204-50 1% BL 270R; VISHAY (F)# ,MMA02040C2700FB300; YAGEO (F)# ,ZC0204FKE07270R
R1209	01-1122-2	R 475R 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM020450 475R 1%B3 e3; Vishay-Beysc (F)# ,SMM020450 475R 1%B3 e3; Draloric (F)# ,SMM020450 475R 1%B3 e3
R1209	01-1124	R 1k 1% 0.25W Minimelf 50ppm	
R1210	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
R1210	01-3474	R 220R 1% 0.063W 0402 100ppm	

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Ref	**BMK-No.**	**Part name**	**manufacturer**
R1211	01-6569	R 2.2M 1% 0.25W 1206 100ppm	VISHAY (F)# ,CRCW1206100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L
R1212	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1213	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1214	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1215	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1216	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1217	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1218	01-1689	R 18R 1% 0.25W Minimelf 50ppm	Vishay-Dralo (B)# ,SMM0204 50 18R 1% B3 e3; Vishay-Dralo (B)# ,SMM02040C1809FB300
R1219	01-1118	R 33.2R 1% 0.25W Minimelf 50ppm	Draloric (F)# ,SMM 0204 50 33R2 1% B0 e3; Draloric (F)# ,SMM0204 50 33R2 1% B3 e3
R1220	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1221	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1222	01-6569	R 2.2M 1% 0.25W 1206 100ppm	VISHAY (F)# ,CRCW1206100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L
R1226	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW1206 5K60FKEA,CRCW1206 BC 5K60TK 100 1%; ASJ (B)# ,CR32-5601-FL
TR1200	04-3102-abc	Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07VA Sek2 11V 0.55VA	Hahn (F)#,V 18274
TR1200	04-3400-abc	Trafo AS1440 127V	
TR1200	04-3401-abc	Trafo AS1440 58V, V18552	
TR1201	04-3049	Spule 110H 6A 24x12x25 Stromwandler 115Rdc	VAC (F)# ,T60404-E4622-X50182
V1200	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327
X1200	05-3333	SCHRAUBKLEMME 1p 90ø RIA# 360410 ohne Drahtschutz	RIACON (F)# ,360410 ohne Drahtschutz; RIACON (F)# ,718408-0156
Measuring System 3			
B1300	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
B1301	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
C1300	02-1943	C 47µF 20% 50V SMD-F Elko -25/+105°C	NIPPON CHEMI (F)#,EMLE500ADA470MHA0G
C1301	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C1302	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1303	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1304	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1305	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y 102 KFAT
C1306	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1307	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y 102 KFAT
C1308	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1309	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C1310	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1311	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
D1300	08-0967	D BZX84-C4V7 SOT23 Z-Diode 4.7V 300mW -65/+150°C	PHILIPS (F)# ,BZX84-C4V7; NXP (F)# ,BZX84-C4V7

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Ref	**BMK-No.**	**Part name**	**manufacturer**
IC1300	11-7911	STPMS1 QFN16 AD 3.2-5.5V 16Bit Smart Sensor -40/+85°C	ST (F)# ,STPMS1BPQR
IC1301	11-8919	BU4832 SSOP5 Spannungsüberwachung 0-7.0V 3.2V -40/+125°C	ROHM (F)#,BU4832GTR
R1301	01-0020	RV Varistor 460V 10% 195W RM10 8000A geschnitten!	EPCOS (F)# SIOV-S20K460,B72220-S461-K502; EPCOS (F)# B72220-S461-K502,SIOV-S20K460
R1302	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW12065K60FKEA,CRCW1206 BC 5K60 TK 100 1%; ASJ (B)# ,CR32-5601-FL
R1303	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3
R1304	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3
R1305	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3
R1306	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3
R1307	01-1995	R 47K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW040247K0FKEA; YAGEO (F)# ,RC0402FR-0747KL
R1308	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1309	01-1727-1	R 270R 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204-50 1% BL 270R; VISHAY (F)# ,MMA02040C2700FB300; YAGEO (F)# ,ZC0204FKE07270R
R1309	01-1122-2	R 475R 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM020450 475R 1%B3 e3; Vishay-Beysc (F)# ,SMM020450 475R 1%B3 e3; Draloric (F)# ,SMM020450 475R 1%B3 e3
R1309	01-1124	R 1k 1% 0.25W Minimelf 50ppm	
R1310	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
R1210	01-3474	R 220R 1% 0.063W 0402 100ppm	
R1311	01-6569	R 2.2M 1% 0.25W 1206 100ppm	VISHAY (F)# ,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L
R1312	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1313	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1314	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1315	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1316	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1317	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1318	01-1689	R 18R 1% 0.25W Minimelf 50ppm	Vishay-Dralo (B)# ,SMM0204 50 18R 1% B3 e3; Vishay-Dralo (B)# ,SMM02040C1809FB300
R1319	01-1118	R 33.2R 1% 0.25W Minimelf 50ppm	Draloric (F)# ,SMM 0204 50 33R2 1% B0 e3; Draloric (F)# ,SMM0204 50 33R2 1% B3 e3
R1320	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1321	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1322	01-6569	R 2.2M 1% 0.25W 1206 100ppm	VISHAY (F)# ,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L
R1326	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW12065K60FKEA,CRCW1206 BC 5K60 TK 100 1%; ASJ (B)# ,CR32-5601-FL
TR1300	04-3102-abc	Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07VA Sek2 11V 0.55VA	Hahn (F)# ,V 18274
TR1300	04-3400-abc	Trafo AS1440 127V	
TR1300	04-3401-abc	Trafo AS1440 58V, V18552	
TR1301	04-3049	Spule 110H 6A 24x12x25 Stromwandler 115Rdc	VAC (F)# ,T60404-E4622-X50182
V1300	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327

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Ref	**BMK-No.**	**Part name**	**manufacturer**
X1300	05-3333	SCHRAUBKLEMME 1p 90ø RIA# 360410 ohne Drahtschutz	RIACON (F)# ,360410 ohne Drahtschutz; RIACON (F)# ,718408-0156
X1301	05-4686	Befestigungselement 5x3x4 Feder	KITAGAWA (F)#,OG-503040
X1302	05-3333	SCHRAUBKLEMME 1p 90ø RIA# 360410 ohne Drahtschutz	RIACON (F)# ,360410 ohne Drahtschutz; RIACON (F)# ,718408-0156
Measuring System Neutral			
C1400	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C1401	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1402	02-0035	C 1nF 5% 50V 0805 Keramik NPO	kemet (B)# ,C0805C102J5GACTU; AVX (B)#,08055A102JAT2A; EPCOS (B)# ,B37940K5102J60; Yageo-Phycom (B)# ,2238 861 15102
C1403	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1404	02-0371-1	C 10nF 5% 50V 0805 Keramik NPO	Murata (F)# ,GRM 2195 C1H 103 JA01D
C1405	02-0371-1	C 10nF 5% 50V 0805 Keramik NPO	Murata (F)# ,GRM 2195 C1H 103 JA01D
IC1400	11-7911	STPMS1 QFN16 AD 3.2-5.5V 16Bit Smart Sensor -40/+85°C	ST (F)# ,STPMS1BPQR
JP1401	03-0088	SL 1x2p RM2.54 male 180° gerade, gold	TOP (F)# ,7000-1X2SG
R1400	01-0741	RN 4x2.2K 5% 0.063W 1206 Array 200ppm convex scalloped	BI (G)# ,CN1J 4 A TTD 222J; KOA (B)# ,CN1J 4 A TTD 222J; ASJ (G)# ,; YAGEO (B)# ,YC164-JR-072K2L; CTS (B)# ,742X-08-3-222-JP-TR; WALSIN (G)#
R1401	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1404	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1405	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1406	01-1689	R 18R 1% 0.25W Minimelf 50ppm	Vishay-Dralo (B)# ,SMM0204 50 18R 1% B3 e3; Vishay-Dralo (B)# ,SMM02040C1809FB300
R1407	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R1408	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1409	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1410	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1411	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R1412	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
Calculator and Isolation			
C1500	02-3238	C 100nF 10% 25V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105BJ104KV-F; AVX (F)# ,04023D104KAT2A; VISHAY (G)# Herstellerbezeichnung falsch! VJ0402G104KXXAT
C1501	02-3238	C 100nF 10% 25V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105BJ104KV-F; AVX (F)# ,04023D104KAT2A; VISHAY (G)# Herstellerbezeichnung falsch! VJ0402G104KXXAT
C1502	02-3238	C 100nF 10% 25V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105BJ104KV-F; AVX (F)# ,04023D104KAT2A; VISHAY (G)# Herstellerbezeichnung falsch! VJ0402G104KXXAT
C1503	02-3238	C 100nF 10% 25V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105BJ104KV-F; AVX (F)# ,04023D104KAT2A; VISHAY (G)# Herstellerbezeichnung falsch! VJ0402G104KXXAT
C1504	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C1505	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C1506	02-3238	C 100nF 10% 25V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105BJ104KV-F; AVX (F)# ,04023D104KAT2A; VISHAY (G)# Herstellerbezeichnung falsch! VJ0402G104KXXAT
C1507	02-3238	C 100nF 10% 25V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105BJ104KV-F; AVX (F)# ,04023D104KAT2A; VISHAY (G)# Herstellerbezeichnung falsch! VJ0402G104KXXAT
IC1500	11-7910	STPMC1 TSSOP20 ASIC 32MHz Mess-ASIC f. ELSTER ST -40/+85°C	ST (F)# ,STPMC1BTR
OK1500	11-9501	SI8422BD-B-IS SOIC16 Isolator 5V Dual Channel -40/+125°C	Silicon Labo (F)# ,SI8422BD-B-ISR

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Ref	**BMK-No.**	**Part name**	**manufacturer**
OK1501	11-9501	SI8422BD-B-IS SOIC16 Isolator 5V Dual Channel -40/+125°C	Silicon Labo (F)# ,SI8422BD-B-ISR
OK1502	11-9501	SI8422BD-B-IS SOIC16 Isolator 5V Dual Channel -40/+125°C	Silicon Labo (F)# ,SI8422BD-B-ISR
OK1500		ISO7521EDWR	Texas Instruments, ISO7521EDWR
OK1501		ISO7521EDWR	Texas Instruments, ISO7521EDWR
OK1502		ISO7521EDWR	Texas Instruments, ISO7521EDWR
R1500	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
R1501	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
R1502	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
R1503	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL
LCD-Display			
C1600	02-2451	C 1µF 10% 25V 0805 Keramik X7R -55/+125°C	Murata (F)# ,GRM21BR71E105KA99L; YAGEO (F)# 222291015663,CC0805KKX7R8BB105; TDK (F)# ,C2012X7R1E105K
C1601	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C1602	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C1603	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C1604	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
D1600	08-0575	D BZV55C3V9 Minimelf Z-Diode 3.9V 250mA 500mW -65/+200°C	PHILIPS (B)# ,BZV55C3V9; VISHAY (B)# ,TZMC3V9-GS08; NXP (F)# ,BZV55-C3V9; NXP (B)# ,BZV55C3V9
L1600	04-1300	Spule 100µH WE#744032101 10% 0.1A Sonderform 3.2x2.5mm Induktivität 4.55Rdc	WÜRTH (F)# ,744032101C
LCD1600	05-9268	Dispaly AS3000 Display 65x38x24.85mm -	Shantou Gowo (F)# ,GWMS10061-LCM/A
LED1600	08-0123	CL-150G LED grün 1206 567nm 1fach 20mA	Citizen (F)# ,CL-150G-CD-T
LED1601	08-0123	CL-150G LED grün 1206 567nm 1fach 20mA	Citizen (F)# ,CL-150G-CD-T
LED1602	08-0123	CL-150G LED grün 1206 567nm 1fach 20mA	Citizen (F)# ,CL-150G-CD-T
Q1600	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(LJ6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R
R1600	01-3627	R 2.7K 1% 0.063W 0402	KOA (B)# ,RK73H1ETTP2701F; YAGEO (B)# ,RC0402FR-072K7L
R1601	01-0794	R 270R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-2700-FL; YAGEO (B)# ,RC0805FR-07270RL
R1602	01-0794	R 270R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-2700-FL; YAGEO (B)# ,RC0805FR-07270RL
R1603	01-0794	R 270R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-2700-FL; YAGEO (B)# ,RC0805FR-07270RL
R1604	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
Tamper Detection			
C1700	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C1720	02-2345	C 100pF 10% 50V 0402 Keramik X7R	AVX (B)# ,04025A101JAT2A; AVX (B)# ,04025C101KAT2A; Samsung (G)# ,CL05C101JB5NNNC; KYOCERA (B)# ,CM05CG101J50AH; Yageo-Phycom (B)# ,2238 869 15101
C1740	02-2345	C 100pF 10% 50V 0402 Keramik X7R	AVX (B)# ,04025A101JAT2A; AVX (B)# ,04025C101KAT2A; Samsung (G)# ,CL05C101JB5NNNC; KYOCERA (B)# ,CM05CG101J50AH; Yageo-Phycom (B)# ,2238 869 15101
IC1700	11-7114	AH180-WG-7 SOT23 Hall-Sensor 2.5-5.5V micropower omnipolar -40/+85°C	DIODES (F)# ,AH180-WG-7
R1700	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-07100KL
S1720	05-3455	Taster 1xEIN SMD RM2.54 180° 32V 50mA 1VA Silber Texte	ITT (F)# ,KSC401G 50SH LFS; C&K (F)# Y31C01245FP,KSC401G 50SH LFS
S1750	05-3455	Taster 1xEIN SMD RM2.54 180° 32V 50mA 1VA Silber Texte	ITT (F)# ,KSC401G 50SH LFS; C&K (F)# Y31C01245FP,KSC401G 50SH LFS
Pushbuttons			
C1800	02-4739	C 100pF 10% 50V 0402 Keramik X7R	Holystone (F)# ,C0402X101K050T
C1801	02-4739	C 100pF 10% 50V 0402 Keramik X7R	Holystone (F)# ,C0402X101K050T
C1802	02-2345	C 100pF 10% 50V 0402 Keramik X7R	AVX (B)# ,04025A101JAT2A; AVX (B)# ,04025C101KAT2A; Samsung (G)# ,CL05C101JB5NNNC; KYOCERA (B)# ,CM05CG101J50AH; Yageo-Phycom (B)# ,2238 869 15101

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Ref	**BMK-No.**	**Part name**	**manufacturer**
JP1800	03-0088	SL 1x2p RM2.54 male 180° gerade, gold	TOP (F)# ,7000-1X2SG
R1800	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R1801	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
S1800	05-3455	Taster 1xEIN SMD RM2.54 180° 32V 50mA 1VA Silber Texte	ITT (F)# ,KSC401G 50SH LFS; C&K (F)# Y31C01245FP,KSC401G 50SH LFS
S1801	05-3455	Taster 1xEIN SMD RM2.54 180° 32V 50mA 1VA Silber Texte	ITT (F)# ,KSC401G 50SH LFS; C&K (F)# Y31C01245FP,KSC401G 50SH LFS
Pulsing LEDs			
C1900	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C1901	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
LED1900	08-1485	RY-SP350UHR LED rot 1206 645nm 1fach 30mA Low Current	Kingbright (F)# ,KPTL-3216SURCK; APEX (F)# ,RY-SP350UHR24
LED1901	08-1485	RY-SP350UHR LED rot 1206 645nm 1fach 30mA Low Current	Kingbright (F)# ,KPTL-3216SURCK; APEX (F)# ,RY-SP350UHR24
Q1900	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(LJ6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R
R1900	01-0648	R 330R 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-3300-FK; YAGEO (F)# ,RC0603FR-07330RL
R1901	01-0648	R 330R 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-3300-FK; YAGEO (F)# ,RC0603FR-07330RL
R1902	01-1927	R 1M 1% 0.063W 0402 100ppm	ASJ (F)# ,CR10-1004-FK; YAGEO (F)# ,RC0402FR-071ML
DLMS Converter			
C2002	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C2003	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C2004	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C2005	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C2006	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C2007	02-2727	C 4.7µF 10% 25V 0805 Keramik X5R	Murata (F)# ,GRM21BR61E475KA12K; Murata (F)# ,GRM21BR61E475KA12L
C2008	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
D2000	08-3456	D BAS40-06 SOT23 Schottky Ultra Fast 40V 120mA 250mW -55/+150°C	Onsemi (F)# ,BAS40-06LT1G; INFINEON (F)# ,BAS40-06 E6327; NXP (F)# ,BAS40-06+215
IC2000		STM32F101CBT6 LQFP48 µController 36MHz 32Bit ST -40/+85°C	ST (F)# ,STM32F101CBT6; ST (F)# ,STM32F101CBT6TR
Q2000	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(LJ6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R
R2001	01-1996	R 1.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K20FKED; YAGEO (F)# ,RC0402FR-071K2L
R2002	01-2002	R 470R 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-07470RL
R2003	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L
R2004	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R2008	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R2011	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R2012	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R2014	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
RN2000	01-0741-4	RN 4x2.2K 5% 0.063W 1206 Array 200ppm convex scalloped	AVX (G)# CRA3A4E-xxx,AVX; BI (F)# ,BCN164A222J7; KOA (F)# ,CN1J4ATTD222J; ASJ (G)# YCNxxx,ASJ
SV2001	03-4830	SL 2x4p 1.27mm pitch male 180° 1.9mmmm Keine Gurtung bei MBLE möglich	SAMTEC (G)# FTS-104-01-F-DV,; SAMTEC (F)# ,ASP-127005-01; SAMTEC (F)# ,FTS-104-01-F-DV-P-TR

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Ref	**BMK-No.**	**Part name**	**manufacturer**
Contactor			
C3000	02-3653	C 10mF 20% 16V RM7.5 Elko -55/+105°C	RUBYCON (F)# ,16 YXA 10000 M-EFC 18x35.5; RUBYCON (F)# ,16YXA10000MCE 18x35.5; NIPPON CHEMI (F)# ,EKMQ160EC3103MLP1S
D3000	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D3001	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D3002	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D3003	08-1122	D BZX84-C15 SOT23 Z-Diode 15V 200mA 250mW -65/+150°C	PHILIPS (F)#,BZX84-C15; NXP (F)# ,BZX84-C15
R3000	01-4325	R 220K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402220KFKED; YAGEO (F)#,RC0402FR-07220KL
R3001	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R3002	01-0487	R 10K 1% 0.1W 0603 100ppm KANBANK SMT Test	ASJ (F)# ,CR16-1002-FK; YAGEO (F)#,RC0603FR-0710KL; YAGEO (F)# ,RC0603FR-1010KL; YAGEO (F)#,RJ0603FRE0710K
R3003	01-0487	R 10K 1% 0.1W 0603 100ppm KANBANK SMT Test	ASJ (F)# ,CR16-1002-FK; YAGEO (F)#,RC0603FR-0710KL; YAGEO (F)# ,RC0603FR-1010KL; YAGEO (F)#,RJ0603FRE0710K
SV3000	03-3062	SL 1x3p RM2.5 male 180° 1wandig	MOLEX (F)# ,22-04-1031; Conexcon (F)# ,2431-2031
T3000	08-0331	T BCP54-16 SOT223 NPN 45V 1A 1.33W -65/+150°C	PHILIPS (F)#,BCP54-16; NXP (F)# ,BCP54-16
T3002	08-3668	T BSO615N SO8 N-Kanal 60V 2.6A 2W Dual -55/+150°C	INFINEON (F)# ,BSO615NG
S0 Output 1			
B4000	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
C4000	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)#,2238 869 15101
C4001	02-0870	C 100nF 10% 50V 0603 Keramik X7R -55/+125°C	Samsung (G)# ,CL10B104KB8NNNC (CL10B104KBNC); YAGEO (F)# CC0603KRX7R9BB104,2238 586 15649; TDK (F)# ,C1608X7R1H104KT-S
C4002	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)#,2238 869 15101
D4000	08-0554	D ZMY30-13 Melf Z-Diode 30V 25mA 1W -55/+175°C	VISHAY (B)# ,ZMY30; SEMIKRON (B)# ,ZMY30; Diotec (B)#,ZMY30
OK4000	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)# ,VO615A-4X009T
R4000	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-68R0-FL; YAGEO (B)# ,RC0805FR-0768RL
R4001	01-1994	R 4.7K 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-074K7L; Dale (F)# ,CRCW04024K70FKED
R4002	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-68R0-FL; YAGEO (B)# ,RC0805FR-0768RL
RN4000	01-0741-4	RN 4x2.2K 5% 0.063W 1206Array 200ppm convex scalloped	AVX (G)# CRA3A4E-xxx,AVX; BI (F)# ,BCN164A222J7; KOA (F)# ,CN1J4ATTD222J; ASJ (G)# YCNxxx,ASJ
T4000	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327
X4000	03-7550	Schraubklemme 2x3p RM5.08 female 90° 2xStock	WIELAND (F)# ,25.179.5353.0; Conectronics (F)# ,TEBL-18725080706
S0 Output 2			
B4100	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
C4100	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)#,2238 869 15101
C4101	02-0870	C 100nF 10% 50V 0603 Keramik X7R -55/+125°C	Samsung (G)# ,CL10B104KB8NNNC (CL10B104KBNC); YAGEO (F)# CC0603KRX7R9BB104,2238 586 15649; TDK (F)# ,C1608X7R1H104KT-S
C4102	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)#,2238 869 15101
D4100	08-0554	D ZMY30-13 Melf Z-Diode 30V 25mA 1W -55/+175°C	VISHAY (B)# ,ZMY30; SEMIKRON (B)# ,ZMY30; Diotec (B)#,ZMY30
OK4100	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)# ,VO615A-4X009T
R4100	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-68R0-FL; YAGEO (B)# ,RC0805FR-0768RL
R4101	01-1994	R 4.7K 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-074K7L; Dale (F)# ,CRCW04024K70FKED
R4102	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-68R0-FL; YAGEO (B)# ,RC0805FR-0768RL

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Ref	**BMK-No.**	**Part name**	**manufacturer**
T4100	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327
S0 Output 3			
B4200	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R
C4200	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)#,2238 869 15101
C4201	02-0870	C 100nF 10% 50V 0603 Keramik X7R -55/+125°C	Samsung (G)# ,CL10B104KB8NNNC (CL10B104KBNC); YAGEO (F)# CC0603KRX7R9BB104,2238 586 15649; TDK (F)# ,C1608X7R1H104KT-S
C4202	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)#,2238 869 15101
D4200	08-0554	D ZMY30-13 Melf Z-Diode 30V 25mA 1W -55/+175°C	VISHAY (B)# ,ZMY30; SEMIKRON (B)# ,ZMY30; Diotec (B)#,ZMY30
OK4200	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)# ,VO615A-4X009T
R4200	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-68R0-FL; YAGEO (B)# ,RC0805FR-0768RL
R4201	01-1994	R 4.7K 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-074K7L; Dale (F)# ,CRCW04024K70FKED
R4202	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-68R0-FL; YAGEO (B)# ,RC0805FR-0768RL
T4200	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327
230V Output			
D4300	08-3595	D SMCJ350CA DO-214AB Supressordiode 350V 2.6A 1500W -55/+150°C bidirektional	LITTELFUSE (B)# ,SMCJ350CA
OK4300	11-2695	LH1540 Optokoppler DIL6SMD 1fach 5.3kV 50mA 250mA(Schaltstrom)	VISHAY (F)# ,LH1540AABTR; INFINEON (F)# ,LH1540AAB-TR
Q4300	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(L)6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R
230V Input 1			
C5000	02-2178	C 1µF 10% 16V 0603 Keramik X5R	TAIYO YUDEN (F)# ,EMK107B7105KA-T; AVX (F)# ,0603YD105KAT2A; Murata (F)# ,GRM188R61C105KA12D; Murata (F)# ,GRM188R61C105KA93D; KYOCERA (F)# ,0603YD105KAT2A
D5000	08-1120	D BAS40-05 SOT23 Schottky 40V 120mA -65/+150°C double	PHILIPS (F)# ,BAS40-05; NXP (F)# ,BAS40-05
OK5000	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)# ,VO615A-4X009T
R5000	01-4442	R 180K 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-07180KL
R5001	01-0672	R 22K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204 50 1% B* 22K; VISHAY (F)# MMA 0204 -50 1% B0 22K,MMA02040C2202FB000; VISHAY (F)# MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)# ,RN41 2ES T TE* 2202 F 50
R5002	01-0672	R 22K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204 50 1% B* 22K; VISHAY (F)# MMA 0204 -50 1% B0 22K,MMA02040C2202FB000; VISHAY (F)# MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)# ,RN41 2ES T TE* 2202 F 50
R5003	01-0672	R 22K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204 50 1% B* 22K; VISHAY (F)# MMA 0204 -50 1% B0 22K,MMA02040C2202FB000; VISHAY (F)# MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)# ,RN41 2ES T TE* 2202 F 50
R5004	01-0672	R 22K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204 50 1% B* 22K; VISHAY (F)# MMA 0204 -50 1% B0 22K,MMA02040C2202FB000; VISHAY (F)# MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)# ,RN41 2ES T TE* 2202 F 50
R5005	01-1910	R 1.5K 1% 0.063W 0402 100ppm	VISHAY (F)# ,RCA04021K50FKED; VISHAY (F)# ,RCA04021K50FKTD; YAGEO (F)# ,RC0402FR-071K5L
X5000	03-1237	Schraubklemme 1x3p RM5.08 female 90° MKDSN1.5/3-5,08	PHOENIX (F)# MKDSN1,5/3-5,08,1729131
230V Input 2			
C5100	02-2178	C 1µF 10% 16V 0603 Keramik X5R	TAIYO YUDEN (F)# ,EMK107B7105KA-T; AVX (F)# ,0603YD105KAT2A; Murata (F)# ,GRM188R61C105KA12D; Murata (F)# ,GRM188R61C105KA93D; KYOCERA (F)# ,0603YD105KAT2A
OK5100	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)# ,VO615A-4X009T
R5100	01-4442	R 180K 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-07180KL
R5101	01-1910	R 1.5K 1% 0.063W 0402 100ppm	VISHAY (F)# ,RCA04021K50FKED; VISHAY (F)# ,RCA04021K50FKTD; YAGEO (F)# ,RC0402FR-071K5L

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Ref	**BMK-No.**	**Part name**	**manufacturer**
R5102	01-0672	R 22K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204 50 1% B* 22K; VISHAY (F)# MMA 0204 -50 1% B0 22K,MMA02040C2202FB000; VISHAY (F)# MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)# ,RN41 2E S T TE* 2202 F 50
R5103	01-0672	R 22K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204 50 1% B* 22K; VISHAY (F)# MMA 0204 -50 1% B0 22K,MMA02040C2202FB000; VISHAY (F)# MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)# ,RN41 2E S T TE* 2202 F 50
R5104	01-0672	R 22K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204 50 1% B* 22K; VISHAY (F)# MMA 0204 -50 1% B0 22K,MMA02040C2202FB000; VISHAY (F)# MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)# ,RN41 2E S T TE* 2202 F 50
R5105	01-0672	R 22K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204 50 1% B* 22K; VISHAY (F)# MMA 0204 -50 1% B0 22K,MMA02040C2202FB000; VISHAY (F)# MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)# ,RN41 2E S T TE* 2202 F 50
R5106	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
IO-Board			
C6000	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C6001	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C6002	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C6003	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX
C6004	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C6005	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
R6000	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)#,RK73H1ETTP1003F; YAGEO (F)#,RC0402FR-07100KL
R6001	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R6002	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R6003	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R6004	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R6005	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R6006	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R6007	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)#,RK73H1ETTP1003F; YAGEO (F)#,RC0402FR-07100KL
R6008	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)#,RK73H1ETTP1003F; YAGEO (F)#,RC0402FR-07100KL
R6009	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)#,RK73H1ETTP1003F; YAGEO (F)#,RC0402FR-07100KL
SV6000	03-7909	Stapel-SL 2x6p RM2.54 male 180° 23.62 SL=12.57mm	SAMTEC (F)# ,DW-06-11-F-D-495
SV6001	03-7908	Stapel-SL 2x4p RM2.54 male 180° 23.62 SL=12.57mm	SAMTEC (F)# ,DW-04-11-F-D-495
RS485			
C7000	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7001	02-0260	C 100nF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C104K5RAC; AVX (F)# ,08055C104KAT2A
C7002	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C7003	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C7004	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C7005	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C7006	02-1906	C 220pF 5% 50V 0402 Keramik X7R	AVX (F)#,04025C221JAT *2A; Samsung (G)#,CL05B221KB5NNNC (CL05B221KBNC); KYOCERA (B)# ,(CM)05X7R221J50*AH

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Ref	**BMK-No.**	**Part name**	**manufacturer**
C7007	02-1906	C 220pF 5% 50V 0402 Keramik X7R	AVX (F)# ,04025C221JAT *2A; Samsung (G)# ,CL05B221KB5NNNC (CL05B221KBNC); KYOCERA (B)# ,(CM)05X7R221J50*AH
D7000	08-4776	D PESD12VS4UD SC-74 Überspannungsschutz 12V -65/+150°C ESD-Schutz-Array	NXP (F)# ,PESD12VS4UD
D7001	08-3578	D SM2T6V8A DO-216AA Supressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A
D7002	08-3578	D SM2T6V8A DO-216AA Supressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A
D7003	08-3578	D SM2T6V8A DO-216AA Supressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A
D7004	08-3578	D SM2T6V8A DO-216AA Supressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A
IC7000	11-7213	MAX481ESA SO8 Interface 12V -40/+85°C	MAXIM (F)# ,MAX 481 ESA +T
J7000	03-6170-1	Buchse 6p RM1.02 female 90° schwarz Jack	NEXUS (F)# ,E5566-00L022
L7000	04-0797	Spule 2x6.5mH 50% 0.6A Sonderform 0.42Rdc	WÜRTH (F)# ,744229
Q7000	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215
Q7001	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(L)6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R
Q7002	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(L)6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R
R7000	01-0799	R 560R 1% 0.125W 0805 100ppm	KOA (F)# ,RK73H2ATTD5600F; ASJ (F)# ,CR21-5600F; YAGEO (F)# ,RC0805FR-07560RL
R7001	01-0799	R 560R 1% 0.125W 0805 100ppm	KOA (F)# ,RK73H2ATTD5600F; ASJ (F)# ,CR21-5600F; YAGEO (F)# ,RC0805FR-07560RL
R7002	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R7003	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R7004	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L
RN7000	01-0591	RN 4x1K 5% 0.063W 1206Array 200ppm convex scalloped	BI (G)# ,BCN164A102J7; KOA (F)# ,CN1J4ATTD 102J
RN7000	01-0602	RN 4x0R 5% 0.063W 1206Array 200ppm convex scalloped	
RS232			
C7100	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7101	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7102	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7103	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
IC7100	11-4433	MAX3221EEAE SSOP16 Interface 3-5.5V RS-232 Transceivers -40/+85°C	TEXAS (F)# ,MAX3221IDB; TEXAS (F)# ,MAX3221IDBG4; MAXIM (F)# ,MAX3221EEAE+
L7100	04-1300	Spule 100µH WE#744032101 10% 0.1A Sonderform 3.2x2.5mm Induktivität 4.55Rdc	WÜRTH (F)# ,744032101C
CL0			
C7200	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7201	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K* A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
D7200	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D7201	08-2317	D ZMY33 Melf Z-Diode 33V 1W -55/+175°C	VISHAY (F)# ,ZMY33
D7202	08-1120	D BAS40-05 SOT23 Schottky 40V 120mA -65/+150°C double	PHILIPS (F)# ,BAS40-05; NXP (F)# ,BAS40-05

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Ref	**BMK-No.**	**Part name**	**manufacturer**
D7203	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D7204	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
IC7200	06-1859	SN74LVC2G14 SC70-6 CMOS 1.65-5.5V 0-5.5V DUAL Schmitt-Trigger -40/+85°C	TEXAS (F)# ,SN74LVC2G14DCKR
L7200	04-1300	Spule 100µH WE#744032101 10% 0.1A Sonderform 3.2x2.5mm Induktivität 4.55Rdc	WÜRTH (F)# ,744032101C
Q7200	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(L)6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R
Q7201	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215
R7200	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R7201	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R7202	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R7203	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R7204	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R7205	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R7206	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R7207	01-0573	R 100R 1% 0.125W 0805 100ppm	VISHAY (F)# ,CRCW 0805 1000 F 100 RT6; KOA (F)# ,RK73H 2A T TD 1000 F; ASJ (F)# ,CR21 1000 FL; YAGEO (F)# ,RC0805FR-07100RL
R7208	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
T7200	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327
T7201	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327
T7202	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327
Optical port			
C7300	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7301	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7302	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7303	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
L7300	04-1300	Spule 100µH WE#744032101 10% 0.1A Sonderform 3.2x2.5mm Induktivität 4.55Rdc	WÜRTH (F)# ,744032101C
LED7300	08-1188	SFH487-2 LED 3mm Infrarot RM2.54 880nm 1fach 100mA	OSRAM (F)# Q62703Q2174,SFH487-2RN29A; OSRAM (F)# ,SFH487-2RN29C
R7300	01-2649	R 330R 1% 0.063W 0402 100ppm	KOA (F)#,RK73H 1ETTP 3300F; YAGEO (F)# ,RC0402FR-07330RL
R7301	01-3248	R 221R 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-07221RL
R7302	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R7303	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R7304	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R7305	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R7306	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R7307	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL
R7308	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL

Component list AS3000V / AS3500V - Rev 1.2a			
Ref	**BMK-No.**	**Part name**	**manufacturer**
T7300	08-1508	SFH309FA-3 Fototransistor 3 (LED Gehäuse)mm RM2.54 1fach 15mA NPN	OSRAM (F)# ,SFH309FA-3/4 RN29A
Comms Port			
C7400	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
C7401	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C7402	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101
C7403	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
OK7400	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)# ,VO615A-4X009T
OK7401	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)# ,VO615A-4X009T
Q7400	08-0154	T BC857C SOT23 PNP 45V 100mA 250mW -65/+150°C	PHILIPS (B)# ,BC857C; INFINEON (B)# ,BC857C; LRC (B)# ,LBC857CLT1; NXP (B)# ,BC857C
R7400	01-0799	R 560R 1% 0.125W 0805 100ppm	KOA (F)# ,RK73H2ATTD5600F; ASJ (F)# ,CR21-5600F; YAGEO (F)# ,RC0805FR-07560RL
R7401	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R7402	01-0160	R 0R x% 0.25W 1206	YAGEO (F)# ,RC1206JR-070RL
R7403	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R7404	01-0160	R 0R x% 0.25W 1206	YAGEO (F)# ,RC1206JR-070RL
R7405	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
R7406	01-0648	R 330R 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-3300-FK; YAGEO (F)#,RC0603FR-07330RL
R7407	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL
SV7400	03-6451	BL 2x6p RM2.54 female 180°	SAMTEC (F)# ,SSW-106-01-F-D
Serial IO Selection			
C7500	02-1197	C 1nF 10% 50V 0402 Keramik X7R	TAIYO YUDEN (F)# ,UMK105B7102KV-F; Murata (F)# RoHS,GRM155R71H102KA01D; Yageo-Phycom (F)# C0402KRX7R9BB102,223 858 715 623
C7501	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX
C7502	02-1197	C 1nF 10% 50V 0402 Keramik X7R	TAIYO YUDEN (F)# ,UMK105B7102KV-F; Murata (F)# RoHS,GRM155R71H102KA01D; Yageo-Phycom (F)# C0402KRX7R9BB102,223 858 715 623
C7503	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238-787-15649,C0402KRX7R7BB104
D7500	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D7501	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D7502	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8
D7503	08-1120	D BAS40-05 SOT23 Schottky 40V 120mA -65/+150°C double	PHILIPS (F)# ,BAS40-05; NXP (F)# ,BAS40-05
IC7500	06-0297-1	CD74HCT86 SO14 CMOS 4.5-5.5V 0-5.5V QUAD EXOR -40/+85°C	PHILIPS (F)# ,74HCT86 D; PHILIPS (F)# ,74HCT86 D RL; NXP (F)# ,74HCT86 D RL; NXP (F)# ,74HCT86D (RL)
Q7500	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(L)6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R
Q7501	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215
R7500	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R7501	01-3474	R 220R 1% 0.063W 0402 100ppm	Dale (F)# ,CRCW0402220RFKED; Yageo-Phycom (F)# ,RC0402FR-07220RL
R7502	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL
R7503	01-3455	R 22K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW040222K0FKED; KOA (F)# ,RK73H1ETTP2202F; YAGEO (F)# ,RC0402FR-0722KL; Yageo-Phycom (F)#,RC0402FR-0722K
R7504	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)#,RC0402FR-072K2L

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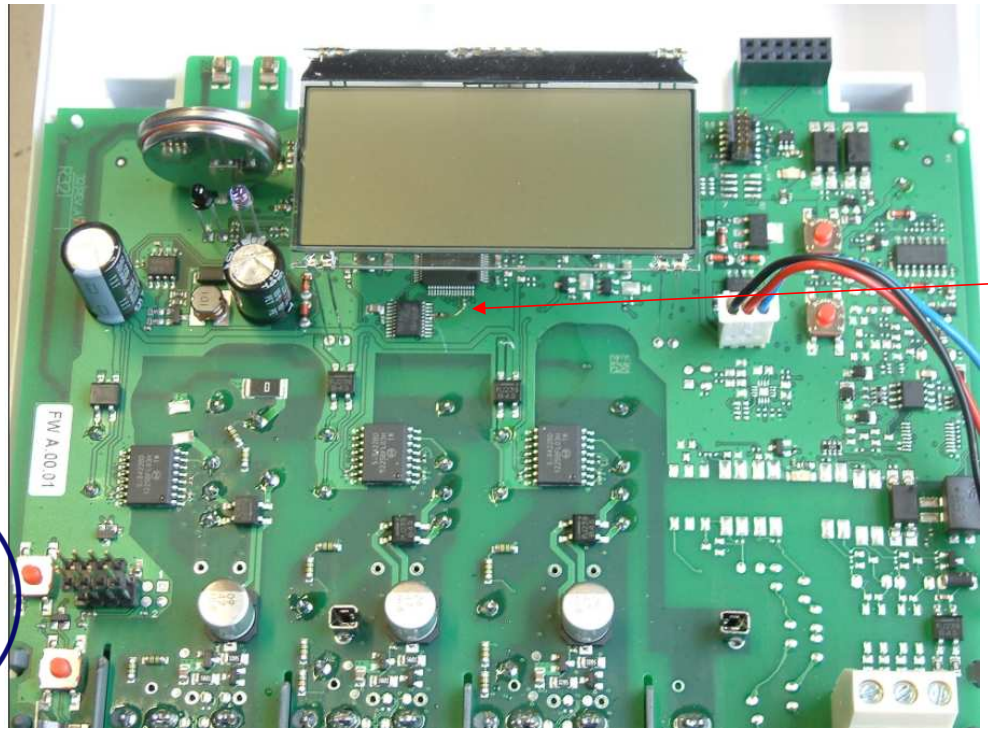
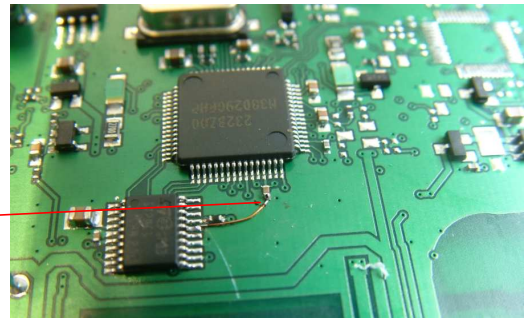
Ref	**BMK-No.**	**Part name**	**manufacturer**
R7505	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7506	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7507	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7508	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7509	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7510	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7511	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7512	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7513	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04021K00FKED; YAGEO (F)#,RC0402FR-071KL
R7514	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7515	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04022K20FKED; YAGEO (F)#,RC0402FR-072K2L
R7516	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7517	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7519	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL
R7520	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)#,RK73H1ETTP1003F; YAGEO (F)#,RC0402FR-07100KL
R7521	01-3307	R 10M 1% 0.063W 0402 100ppm	YAGEO (B)#,RC0402FR-0710ML; Yageo-Phycom (B)#,RC0402FR-0710ML
R7522	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04021K00FKED; YAGEO (F)#,RC0402FR-071KL
R7523	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04022K20FKED; YAGEO (F)#,RC0402FR-072K2L
Parts not in Groups			
ASE	21-0545	Baugr. A1440 Abschalteinheit mit Schrauben	
KBD	05-7443-abc	A1440Y Klemmblock direkt komplett	
KBW	05-8078-abc	A1440Y Klemmblock MWZ komplett LA3002831	Ikusto GmbH (F)#,40091402
LCR_L	03-7639	Clip Kontakt 1p RM3.4 female 180° Quick-Fit Messing	KEYSTONE (F)#,Cat. No. 3557
LCR_N	03-7639	Clip Kontakt 1p RM3.4 female 180° Quick-Fit Messing	KEYSTONE (F)#,Cat. No. 3557
PCB	15-4430-5	PCB Elster AS3000 HAL Pb TG: 130 ML4 Rev. 1.2 2x Nutzen 158.5x138.3mm UL	
WIP	18-3442	BMK-Label 7x7mm Polyester weiß 2D-WIP-Label BMK-Standard RT:05-7263 mit Klartext S siehe Text/Bild	

AS3000 modification

Connecting the XTAL2 pin of the calculator to GND using a wire





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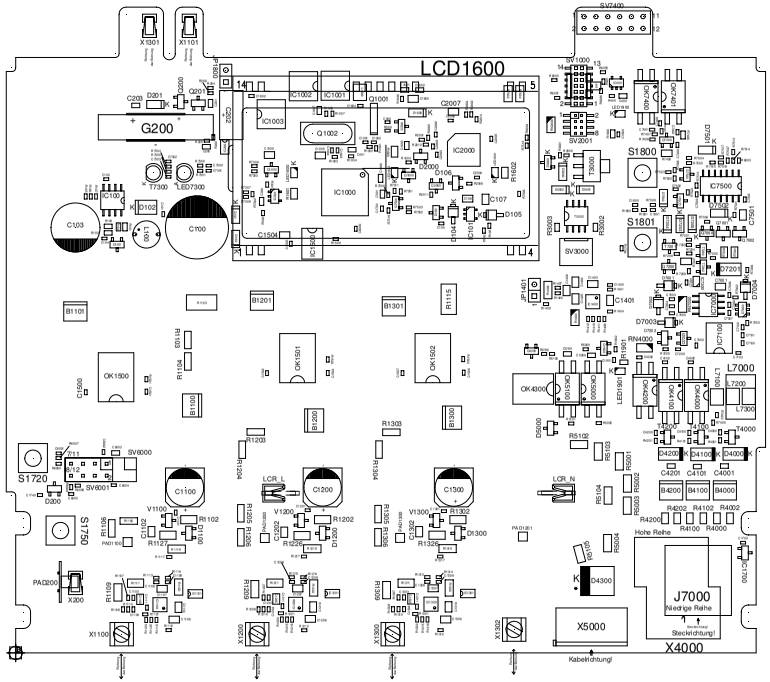
Layer(s):	
	Assembly Top
	Legend



	Funktionsstand		Datum	13.12.2012	AS3000V	ELSTER	(Logo)	Kunde-Projekt-Nr.	
	Erzeugnisstand		Bearbeitet	SS/JK	Rev.: 1.3			Kunde-PCB-Nr.	
	Unterlagenstand		Geprueft					BMK-Projekt-Nr.	abc074re1
			Frei gegeben		Ersetzt / Ersetzt durch			BMK-PCB-Nr.	

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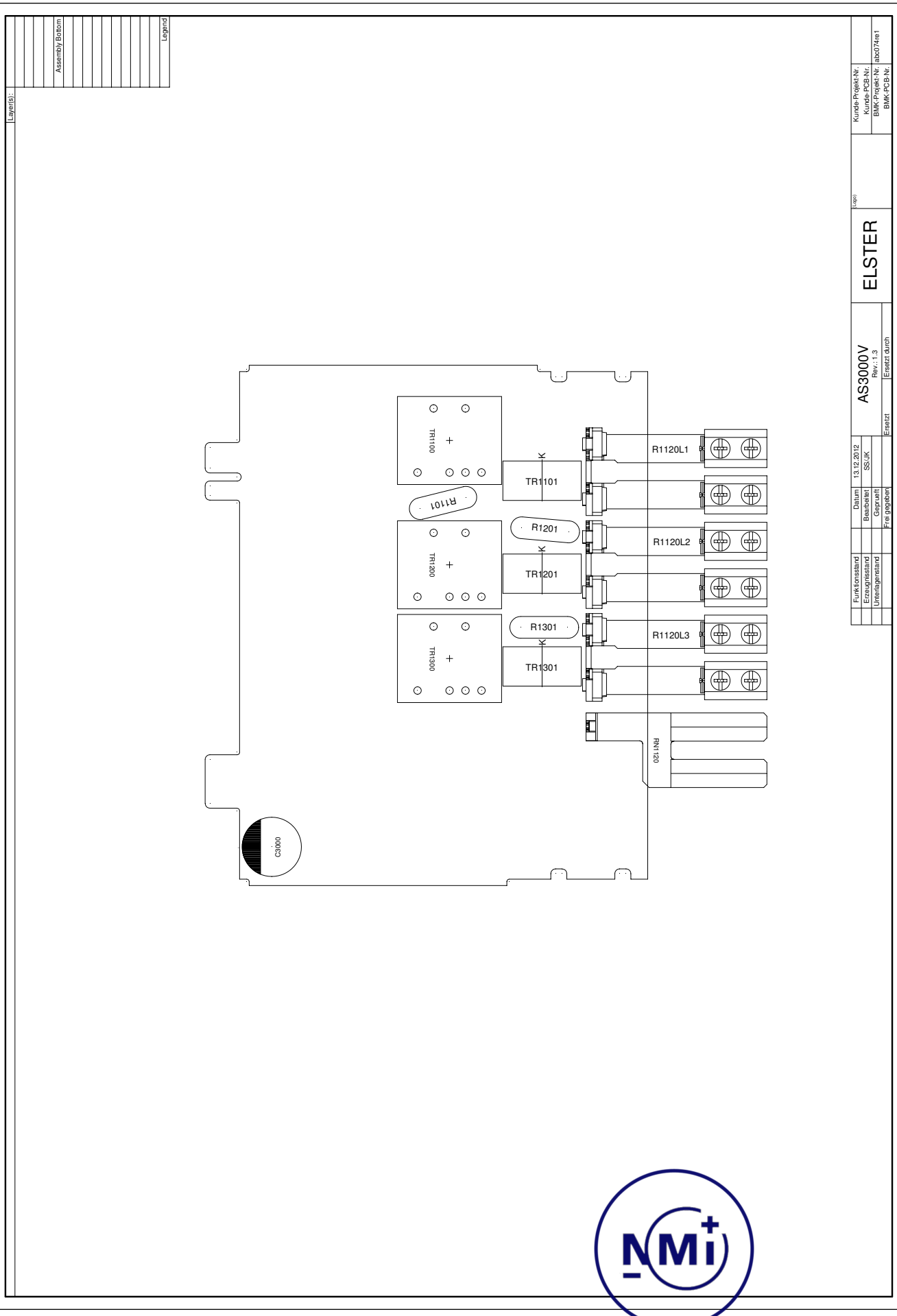

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Component list AS3000V1 Rev 1.3

Ref	BMK-No.	Part name	manufacturer	remark	modifications	R00	R01	R02	R30	R31	R32	R35	R36	R37	R38	R41	R42	R71	R77
						DC	DC	DC	DC	DC	DC	DC	DC	DC	DC	CT	CT	CT	CT
Powersupply 5V																			
C100	02-1967-1	C 1000µF 20% 10V RM5 Elko Pinlänge 3.5mm -40/+105°C	RUBYCON (F)# ,10YXG1000M EFC CE 10x16; RUBYCON (F)# ,10YXG1000MCE 10x16			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C101	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C102	02-1906	C 22 0pF 5% 50V 0402 Keramik X7R	AVX (F)# ,04025C221JAT *2A; Samsung (G)# ,CL05B221KB5 NNNC (CL05B221 KBNC); KYOCERA (B)# ,(CM)05X7R221J50*AH			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C103	02-3712	C 33 0µF 20% 50V RM5 Elko long life,low impeda ESR 78 - 40/+105°C	RUBYCON (F)# ,50 YXF 330M CE 10x20; RUBYCON (F)# ,50 YXF 330M CE EFC 10x20			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C104	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C105	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C106	02-2451	C 1µF 10% 25V 0805 Keramik X7R -55/+125°C	Murata (F)# ,GRM21BR71E105KA99L; YAGEO (F)# 22229 1015663,CC0805 KKX7R8BB105; TDK (F)# ,C2012X7R1E105K			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C107	02-2451	C 1µF 10% 25V 0805 Keramik X7R -55/+125°C	Murata (F)# ,GRM21BR71E105KA99L; YAGEO (F)# 22229 1015663,CC0805 KKX7R8BB105; TDK (F)# ,C2012X7R1E105K			1	1	1	1	1	1	1	1	1	1	1	1	1	1
D100	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8			1	1	1	1	1	1	1	1	1	1	1	1	1	1
D101	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8			1	1	1	1	1	1	1	1	1	1	1	1	1	1
D102	08-0842-1	GL ES1D SMA Gleichrichter 140V 1A SMD -55/+150°C	PANJIT (F)# ,ES1D;Faiichild (F)#,ES1D; Vishay(F)#,ES1D			1	1	1	1	1	1	1	1	1	1	1	1	1	1
D103	08-3456	D BAS40-06 SOT23 Schottky Ultra Fast 40V 120mA 250mW -55/+150°C	Onsemi (F)# ,BAS40-06LT1G; INFINEON (F)# ,BAS40-06 E6327; NXP (F)# ,BAS40-06+215			1	1	1	1	1	1	1	1	1	1	1	1	1	1
D104	08-3578	D SM2T6V8A DO-216AA Supressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A			0	0	0	0	0	0	0	0	0	0	0	0	0	0
D105	08-3578	D SM2T6V8A DO-216AA Supressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A			0	0	0	0	0	0	0	0	0	0	0	0	0	0
D106	08-1146	D BAS40 SOT23 Schottky 40V 120mA -65/+150°C single Diode	Onsemi (F)# ,BAS40LT1G; NXP (G)# 9340 345 30215,BAS40			1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC100	11-8546	MC34063EBD SO8 Schaltregler adj. 1.5A -40/+125°C	ST (F)# ,MC34063EBD-TR			1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC101	11-6112	NCP5515N33T1G SOT23-5 Spannungsregler 3.3V 0.15A Low Dropout -40/+85°C	Onsemi (F)# ,NCP5515N33T1G			1	1	1	1	1	1	1	1	1	1	1	1	1	1
L100	04-4089	Spule 100µH 10% 0,68A - 5,8x4,8mm Induktivität 0,70Rdc	Bourns (F)# ,SDR0604-101KL; Ole Wolff (F)# ,OWISF54-101K-R-T1-LF			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q100	08-3676	T PBSS5250T SOT23 PNP 50V 2A 480mW -65/+150°C	NXP (F)# ,PBSS5250T			1	1	1	1	1	1	1	1	1	1	1	1	1	1
R100	01-0887	R 2.70R 1% 0.1W 0603 100ppm	ASJ (F)#,CR16-2700-FL; YAGEO (F)# ,RC0603FR-07270RL			1	1	1	1	1	1	1	1	1	1	1	1	1	1
R101	01-0610	R 1K 1% 0.1W 0603 100ppm	ASJ (F)#,CR16-1001-FK; ASJ (F)# ,CR16-1001-FL; YAGEO (F)# ,RC0603FR-071K			1	1	1	1	1	1	1	1	1	1	1	1	1	1
R102	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)# ,CRCW040200000ZSED; YAGEO (F)# ,RC0402JR-070RL			0	1	1	1	1	1	1	1	1	1	1	1	1	0
R103	01-1199-2	R 1R 1% 0.1W 0603 200ppm	ASJ (F)#,CR16-1R00-FL; Yageo-Phycom (F)# ,RC0603FR-071RL; Yageo-Phycom (F)# ,RC0603FR-131RL			1	1	1	1	1	1	1	1	1	1	1	1	1	1
R104	01-1199-2	R 1R 1% 0.1W 0603 200ppm	ASJ (F)#,CR16-1R00-FL; Yageo-Phycom (F)# ,RC0603FR-071RL; Yageo-Phycom (F)# ,RC0603FR-131RL			1	1	1	1	1	1	1	1	1	1	1	1	1	1
R105	01-2653	R 12K 1% 0.063W 0402 100ppm	ASJ (B)# ,CR101202 FK; YAGEO (B)# ,RC0402FR-0712KL			1	1	1	1	1	1	1	1	1	1	1	1	1	1
R106	01-2653	R 12K 1% 0.063W 0402 100ppm	ASJ (B)# ,CR101202 FK; YAGEO (B)# ,RC0402FR-0712KL			0	0	0	0	0	0	0	0	0	0	0	0	0	0
R107	01-4218	R 3.9K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04023K90 FKED; YAGEO (F)# ,RC0402FR-073K9L			1	1	1	1	1	1	1	1	1	1	1	1	1	1
R108	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)# ,CRCW040200000ZSED; YAGEO (F)# ,RC0402JR-070RL			1	0	0	0	0	0	0	0	0	0	0	0	0	1
Battery Management																			
C200	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C201	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C202	02-2247	C 0.22F 20% 5.5V RM5 Elko - 25/+70°C	PANASONIC (F)# ,EECS0HD224V			1	1	1	1	1	1	1	1	1	1	1	1	1	1
C203	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX			0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	08-1146	D BAS40 SOT23 Schottky 40V 120mA -65/+150°C single Diode	Onsemi (F)# ,BAS40LT1G; NXP (G)# 9340 345 30215,BAS40			1	1	1	1	1	1	1	1	1	1	1	1	1	1

D201	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)#,LL4150-GS*8	1	1	1	1	1	1	1	1	1	1	1	1	1	1
G200	05-4694-1	RM5.0 3.0V CR2450 Lithium 560mAh Lötfahne stehend	RENATA (F)#,CR2450 NRV-LF; VARTA (F)#,06450 201 025; VARTA (F)#,06450 201 501	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC200	11-7207	BU4925 SSOP5 Reset -0.3-7.0V 2.5V Low Voltage Detector -40/+105°C	ROHM (F)#,BU4925G TR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PAD200	05-4684	Feder 8.7x18.3x0.8 Batteriekontakt	KEYSTONE (F)# Ettinger 15.83.313,108-2; RAMTRON (F)#,108-2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q200	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 2.50mW Rds max. 10R -65/+150°C	FAIRCHILD (F)#,BSS84; INFINEON (F)#,BSS84P-E6327; INFINEON (F)#,BSS84P-L6327; NXP (F)#,BSS84,215	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q201	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 2.50mW Rds max. 10R -65/+150°C	FAIRCHILD (F)#,BSS84; INFINEON (F)#,BSS84P-E6327; INFINEON (F)#,BSS84P-L6327; NXP (F)#,BSS84,215	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R203	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04021K00FKED; YAGEO (F)#,RC0402FR-071KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R204	01-1927	R 1M 1% 0.063W 0402 100ppm	ASJ (F)#,CR10-1004-FK; YAGEO (F)#,RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R205	01-3307	R 10M 1% 0.063W 0402 100ppm	YAGEO (B)#,RC0402FR-0710ML; Yageo-Phycom (B)#,RC0402FR-0710ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R206	01-1927	R 1M 1% 0.063W 0402 100ppm	ASJ (F)#,CR10-1004-FK; YAGEO (F)#,RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
X200	05-4686	Befestigungselement 5x3x4 Feder	KITAGAWA (F)#,OG-503040	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Powerfail																		
C300	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)#,C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C301	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)#,C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC300	11-4892	BU4940G SSOP5 Reset 1.2-5.5V 4.00V µP Reset Circuit -40/+105°C	ROHM (F)# BU4940G - TR,BU4940G - TR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R300	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW0402100RFKED; YAGEO (F)#,RC0402FR-07100RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R301	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04022K20FKED; YAGEO (F)#,RC0402FR-072K2L	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Reset																		
C400	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)#,C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C401	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)#,C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC400	11-7459	BU4920 SSOP5 Spannungsüberwachung 0-7.0V 2.0V -40/+125°C	ROHM (F)#,BU4920G-TR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R400	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW0402100RFKED; YAGEO (F)#,RC0402FR-07100RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R401	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04022K20FKED; YAGEO (F)#,RC0402FR-072K2L	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Temperature compensation																		
C500	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)#,GRM155R71C104K*A88D; TDK (F)#,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402K10X7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IC500	11-3784	LM60C SOT23-3 Temperatur-Sensor 2.7-10V -40/+125°C	National (F)# ,LM60CIM3; National (F)# ,LM60CIM3X/NOPB	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R500	01-1890	R 0R x6 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000ZED; VISHAY (F)#,CRCW04020000ZSED; YAGEO (F)#,RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MCOR (Renesas)																		
C1000	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)#,C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1001	02-1905	C 15pF 5% 50V 0402 Keramik NP0	kemet (F)#,C0402C150J5G*ACTU; Samsung (G)#,CL05C150JB5NNNC (CL05C150JBNC); Yageo-Phycom (F)# 2238 869 15159	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1002	02-1905	C 15pF 5% 50V 0402 Keramik NP0	kemet (F)#,C0402C150J5G*ACTU; Samsung (G)#,CL05C150JB5NNNC (CL05C150JBNC); Yageo-Phycom (F)# 2238 869 15159	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1003	02-2308	C 33pF 5% 50V 0402 Keramik NP0	Samsung (G)#CL05C330J85NNNC,; Yageo-Phycom (F)# 2238 86915339,CC0402JRNP09BN330	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1004	02-2308	C 33pF 5% 50V 0402 Keramik NP0	Samsung (G)#CL05C330J85NNNC,; Yageo-Phycom (F)# 2238 86915339,CC0402JRNP09BN330	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1005	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)#,C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1006	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)#,C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1007	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)#,C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1000	11-7111	M38D29GFHP LQFP64 CMOS µComputer 16MHz 8Bit 2048 Byte RAM Renesas	Renesas (F)#,M38D29GFHP	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1001	10-2588	M38D29FFHP LQFP64 M24256BRMN6TG SO8 EEPROM seriell 32kx8Bit 1.8-5.5V 150mil Body -40/+85°C	Renesas (F)#,M38D29FFHP ST (F)#,M24256-BRMN6T*	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1	0 1

IC1002	10-2597	M24512-R SO8 EEPROM seriell 512kBit 1.8-5.5V -40/+85°C	ST (F)# ,M24512-RMN6TG; ST (F)# ,M24512-RMN6TP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1003	10-2597	M24512-R SO8 EEPROM seriell 512kBit 1.8-5.5V -40/+85°C	ST (F)# ,M24512-RMN6TG; ST (F)# ,M24512-RMN6TP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1000	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1001	09-2025	Q 3.2.768kHz - 7x1.5x1.4mm Grundwelle 12.5pF 20ppm@25°C -40/+85°C	SEIKO (F)# ,SSP-T7-F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1002	09-1954	Q 8.000000MHz HC49USSM 13.0x4.8x4.5mm Grundwelle 16pF 30ppm 50ppm@25°C -40/+85°C	AURIS (F)# ,Q-8.000000M HC49USSMD-F-30-50-E-16-TR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1000	01-3307	R 10M 1% 0.063W 0402 100ppm	YAGEO (B)# ,RC0402FR-0710ML; Yageo-Phycom (B)# ,RC0402FR-0710ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1001	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-07100KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1003	01-1927	R 1M 1% 0.063W 0402 100ppm	ASJ (F)#,CR10-1004-FK; YAGEO (F)# ,RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1004	01-4212	R 5.1K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04025K10FKED; YAGEO (F)# ,RC0402FR-075K1L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1006	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1007	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SV1000	03-4560	SL 2x7p 1.27mm pitch male 180°	SAMTEC (F)# ,FTSH-107-01-L-DV-K-P-TR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Measuring System 1																			
B1100	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4STO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B1101	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4STO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1100	02-1943	C 47µF 20% 50V SMD-F Elko -25/+105°C	NIPPON CHEMI (F)# ,EMLE500ADA470MHA0G	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1101	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.C0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1102	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1103	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,2238 69 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1104	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,2238 69 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1105	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	1120	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1106	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1107	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102KSRAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y102 KFAT	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
C1107	02-0058	C 2200pF 10% 50V 0805 Keramik X7R		0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1
C1108	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,2238 69 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1109	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,2238 69 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1110	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1111	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.C0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1100	08-0967	D BZX84-C4V7 SOT23 Z-Diode 4.7V 300mW -65/+150°C	PHILIPS (F)# ,BZX84-C4V7; NXP (F)# ,BZX84-C4V7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1100	11-7911	STPMS1 QFN16 AD 3.2-5.5V 16Bit Smart Sensor -40/+85°C	ST (F)# ,STPMS1BPQR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1101	11-8919	BU4832 SSOP5 Spannungsüberwachung 0-7.0V 3.2V -40/+125°C	ROHM (F)# ,BU4832GTR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1101	01-0020	RV Varistor 460V 10% 195W RM10 8000A geschnitten!	EPCOS (F)# SIOV-S20K460,B72220 S461-K502; EPCOS (F)# B72220-S461-K502,SIOV-S20K460	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1102	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW1206560FKEA,CRCW1206 8C 5K60 TK 100 1%; ASJ (B)# ,CR32-5601-FL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1103	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM0204KC1503FB000; VISHAY (F)# ,SMM0204C 150K 1%B3; Vishay-Beysc (F)# ,SMM0204 50 150K 1%B3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

R1104	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,SMM0204 50 150K 1%80 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%83; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1105	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,SMM0204 50 150K 1%80 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%83; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)#,SMM020450 150K 1%B3; Vishay-Beysc (F)# ,SMM020450 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1106	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,SMM0204 50 150K 1%80 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%83; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)# ,SMM020450 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1107	01-1995	R 47K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW040247K0FKEA; YAGEO (F)# ,RC0402FR-0747KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1108	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW0402000 0ZED; VISHAY (F)# ,CRCW040200002SED; YAGEO (F)#,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1109	01-1727-1	R 270R 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204- 50 1% BL 270 R; VISHAY (F)# ,MMA02040C2700FB300; YAGEO (F)# ,ZC0204FKE0727 0R	nur für 230V	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0		
R1109		R 1kR 1% 0.25 W Minimelf 50ppm		nur für 58V	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
R1109		R 475R 1% 0.25W Minimelf 50ppm		nur für 127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R1110	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	0	0	1	1		
R1110	01-3474	R 220R 1% 0.063W 0402 100ppm			0	0	0	0	0	0	0	0	0	0	0	1	1	0	0		
R1111	01-6569	R 2.2M 1% 0.25 W 1206 100ppm	VISHAY (F)#,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0		
R1112	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R1113	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R1114	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R1115	01-3586-1	R 0R x% 1W 2512	YAGEO (F)#2 32276290000,RC2512JK-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R1116	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW0402000 0ZED; VISHAY (F)# ,CRCW040200002SED; YAGEO (F)#,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0		
R1117	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW0402000 0ZED; VISHAY (F)# ,CRCW040200002SED; YAGEO (F)#,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1		
R1119	01-1118	R 3.3R 1% 0.25W Minimelf 50ppm	Draloric (F)# ,SMM 0204 50 33R2 1% B0 e3; Draloric (F)# ,SMM0204 50 33R2 1% B3 e3	CT / nur 1(6)A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1		
R1119		R 10R 1% 0,25W Minimelf 50ppm		CT / nur 5(15)A oder 5(20)A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R1120	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW0402000 0ZED; VISHAY (F)# ,CRCW040200002SED; YAGEO (F)#,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R1121	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW0402000 0ZED; VISHAY (F)# ,CRCW040200002SED; YAGEO (F)#,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1		
R1122	01-6569	R 2.2M 1% 0.25 W 1206 100ppm	VISHAY (F)#,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R1123	01-3586-1	R 0R x% 1W 2512	YAGEO (F)#,2322762900 00,RC2512JK-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R1125	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW0402000 0ZED; VISHAY (F)# ,CRCW040200002SED; YAGEO (F)#,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R1127	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW1206SK60FKEA,CRCW1206 BC SK60 TK 100 1%; ASJ (B)# ,CR32- 5601- FL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
TR1100	04-3102-abc	Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07VA Sek2 11V 0.55 VA	Hahn (F)# ,V 18274	230V	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0		
TR1100	04-3400-abc	Trafo AS1440 127V		127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TR1100	04-3401-abc	Trafo AS1440 58V , V18552		58V	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
TR1101	04-3049	Spule 110H 6A 24x12x2.5 Stromwandler 115Rdc	VAC (F)# ,T60404-E4622-X50182		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1		
V1100	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
X1100	05-3333	SCHRAUBKLEMME 1p 90a RIA# 36041 0 ohne Drahtschutz	RIACON (F)#,360410 ohne Drahtschutz; RIACON (F)# ,71840 8 0156		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
X1101	05-4686	Befestigungselement 5.6x4 Feder	KITAGAWA (F)# ,OG-503040		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Measuring System 2																					
B1200	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)#,B6S T/R		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
B1201	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)#,B6S T/R		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
C1200	02-1943	C 47µF 20% 50V SMD-F Elko - 25/+105°C	NIPPON CHEMI (F)# ,EMLE500ADA470MHA0G		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
C1201	02-2204	C 10nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238 - 787-15649.C0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

C1202	02-3597	C 1µF 10% 25 V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1203	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 8 69 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1204	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 8 69 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1205	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805Y102KFAT		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1206	02-3597	C 1µF 10% 25 V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1207	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805Y102KFAT		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1208	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 8 69 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1209	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 8 69 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1210	02-3597	C 1µF 10% 25 V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1211	02-2204	C 10Onf 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,0402K0K7R78B104		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1200	08-0967	D BZX84-C4V7 SOT23 Z-Diode 4.7V 300mW -65/+150°C	PHILIPS (F)# ,BZX84-C4V7; NXP (F)# ,BZX84-C4V7		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1200	11-7911	STPMS1 QFN16 AD 3.2-5.5 V 16Bit Smart Sensor -40/+85°C	ST (F)# ,STPMS1BPQR		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1201	11-8919	BU4832 SSOP5 Spannungsüberwachung 0-7.0V 3.2V -40/+125°C	ROHM (F)# ,BU4832GTR		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1201	01-0020	R V Varistor 460V 10% 195W RM10 800A geschnitten!	EPCOS (F)# SIOV-S20K460,B72220-S461-K502; EPCOS (F)# B72220-S461-K502,SIOV-S20K460		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1202	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW1206S K60FKEA,CRCW1206 8C 5K60 TK 100 1%; ASJ (B)# ,CR32-5601-FL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1203	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM0204 50 150K 1%B3; Vishay-Beysc (F)# ,SMM0204 50 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1204	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM0204 50 150K 1%B3; Vishay-Beysc (F)# ,SMM0204 50 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1205	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM0204 50 150K 1%B3; Vishay-Beysc (F)# ,SMM0204 50 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1206	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM0204 50 150K 1%B3; Vishay-Beysc (F)# ,SMM0204 50 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1207	01-1995	R 4.7K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04027K0FKEA; YAGEO (F)# ,RC0402FR-0747KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1208	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000ZED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1209	01-1727-1	R 270R 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,MMA 0204-50 1% BL 270R; VISHAY (F)# ,MMA02040C2700FB300; YAGEO (F)# ,ZC0204FKE07270R	nur für 230V	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
R1209		R 1 k 1% 0.25W Minimelf 50ppm		nur für 58V	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
R1209		R 475R 1% 0.25W Minimelf 50ppm		nur für 127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1210	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021000FKED; YAGEO (F)# ,RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
R1210	01-3474	R 220R 1% 0.063W 0402 100ppm			0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
R1211	01-6569	R 2.2M 1% 0.25 W 1206 100ppm	VISHAY (F)# ,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1212	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1213	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1214	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1215	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000ZED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1216	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000ZED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	0	0	0

R1217	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000Z5ED; YAGEO (F)# ,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	1	1	1	1
R1219	01-1118	R 3.2R 1% 0.25W Minimelf 50ppm	Draloric (F)# ,SMM 0204 50 33R2 1% B0 e3; Draloric (F)# ,SMM0204 50 33R2 1% B3 e3	CT / nur 1(6)A	0	0	0	0	0	0	0	0	0	0	1	1	1	1
R1219		R 10R 1% 0,25W Minimelf 50ppm		CT / nur 5(15)A oder 5(20)A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1220	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000Z5ED; YAGEO (F)# ,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1221	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000Z5ED; YAGEO (F)# ,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	1	1	1	1
R1222	01-6569	R 2.2M 1% 0.25 W 1206 100ppm	VISHAY (F)#,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)#,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L		1	1	1	1	1	1	1	1	1	1	0	0	0	0
R1226	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW1206560FKEA,CRCW1206 BC 5K60 TK 100 1%; ASJ (B)# ,CR32-5601-FL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
TR1200	04-3102-abc	Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07 VA Sek2 11V 0.55 VA	Hahn (F)# ,V 18274		1	1	1	1	1	1	1	1	1	1	1	1	0	0
TR1200	04-3400-abc	Trafo AS1440 127V			0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1200	04-3401-abc	Trafo AS1440 58V , V18552			0	0	0	0	0	0	0	0	0	0	0	0	1	1
TR1201	04-3049	Spule 110H 6A 24x12x25 Strom wandler 115Rdc	VAC (F)# ,T60404-E4622-X50182		0	0	0	0	0	0	0	0	0	0	1	1	1	1
V1200	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327		1	1	1	1	1	1	1	1	1	1	1	1	1	1
X1200	05-3333	SCHRAUBKLEMME 1p 90ø RIA# 360410 ohne Drahtschutz	RIACON (F)#,360410 ohne Drahtschutz; RIACON (F)# ,718408-0156		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Measuring System 3																		
B1300	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)#,B6S T/R		1	1	1	1	1	1	1	1	1	1	1	1	1	1
B1301	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)#,B6S T/R		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1300	02-1943	C 47µF 20% 50V SMD-F Elko -25/+105°C	NIPPON CHEMI (F)# ,EMLE500ADA470MHA0G		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1301	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1302	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1303	02-1887	C 10pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1304	02-1887	C 10pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1305	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y102 KFAT		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1306	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1307	02-2961	C 1000pF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C102K5RAC7800; VISHAY (F)# ,VJ0805Y102KXAT; Murata (F)# ,GRM216R71H102KA01D; Vitramon (F)# ,VJ0805 Y102 KFAT		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1308	02-1887	C 10pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1309	02-1887	C 10pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1310	02-3597	C 1µF 10% 25V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1311	02-2204	C 10nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1300	08-0967	D BZX84-C4V7 SOT23 Z-Diode 4.7V 300mW -65/+150°C	PHILIPS (F)# ,BZX84-C4V7; NXP (F)# ,BZX84-C4V7		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1300	11-7911	STPMS1 QFN16 AD 3.2-5.5 V 16Bit Smart Sensor -40/+85°C	ST (F)# ,STPMS1BPQR		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1301	11-8919	B U4832 SSOP5 Spannungsüberwachung 0-7.0V 3.2V -40/+125°C	ROHM (F)# ,BU4832GTR		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1301	01-0020	R V Varistor 460V 10% 195W RM10 8000A geschnitten!	EPCOS (F)# SIOV-S20K460,B72220-S461-K502; EPCOS (F)# B72220-S461-K502,SIOV-S20K460		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1302	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW1206560FKEA,CRCW1206 BC 5K60 TK 100 1%; ASJ (B)# ,CR32-5601-FL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1303	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMMD20450 150K 1%B3; Vishay-Beysc (F)# ,SMMD20450 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1

R1304	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1305	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)#,SMM020450 150K 1%B3; Vishay-Beysc (F)#,SMM020450 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1306	01-1132	R 150K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,SMM0204 50 150K 1%B0 e3; VISHAY (F)# ,SMM0204-MS1 50 150K 1%B3; VISHAY (F)# ,SMM02040C1503FB000; VISHAY (F)# ,SMM020450 150K 1%B3; Vishay-Beysc (F)# ,SMM020450 150K 1%B3		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1307	01-1995	R 47K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW040247K0FKEA; YAGEO (F)# ,RC0402FR-0747KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1308	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW0402000Z0ED; VISHAY (F)# ,CRCW040200000ZSED; YAGEO (F)# ,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1309	01-1727-1	R 270R 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204- 50 1% BL 270 R; VISHAY (F)# ,MMA0204C2700FB300; YAGEO (F)# ,ZC0204FKE0727OR	nur für 230V	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	
R1309		R 1k 1% 0.25W Minimelf 50ppm		nur für 58V	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
R1309		R 475R 1% 0.25W Minimelf 50ppm		nur für 127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
R1310	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	
R1210	01-3474	R 220R 1% 0.063W 0402 100ppm			0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
R1311	01-6569	R 2.2M 1% 0.25 W 1206 100ppm	VISHAY (F)# ,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
R1312	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
R1313	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
R1314	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
R1315	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW0402000Z0ED; VISHAY (F)# ,CRCW040200000ZSED; YAGEO (F)# ,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
R1316	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW0402000Z0ED; VISHAY (F)# ,CRCW040200000ZSED; YAGEO (F)# ,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
R1317	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW0402000Z0ED; VISHAY (F)# ,CRCW040200000ZSED; YAGEO (F)# ,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
R1319	01-1118	R 33.2R 1% 0.25W Minimelf 50ppm	Draloric (F)# ,SMM 0204 50 33R2 1% B0 e3; Draloric (F)# ,SMM0204 50 33R2 1% B3 e3	CT / nur 1(6)A	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
R1319		R 10R 1% 0,25W Minimelf 50ppm		CT / nur 5(15)A oder 5(20)A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
R1320	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW0402000Z0ED; VISHAY (F)# ,CRCW040200000ZSED; YAGEO (F)# ,RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
R1321	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW0402000Z0ED; VISHAY (F)# ,CRCW040200000ZSED; YAGEO (F)# ,RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
R1322	01-6569	R 2.2M 1% 0.25 W 1206 100ppm	VISHAY (F)# ,CRCW1206 100 2M2 1% ET1 e3; VISHAY (F)# ,CRCW12062M20FKEA; Yageo-Phycom (F)# ,RC1206FR-072M2L		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	
R1326	01-1985	R 5.6K 1% 0.25W 1206 100ppm	VISHAY (B)# CRCW12065K60FKEA,CRCW1206 BC 5K60 TK 100 1%; ASJ (B)# ,CR32-5601-FL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
TR1300	04-3102-abc	Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07 VA Sek2 11V 0.55 VA	Hahn (F)# ,V 18274		1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	
TR1300	04-3400-abc	Trafo AS1440 127V			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TR1300	04-3401-abc	Trafo AS1440 58V , V18552			0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
TR1301	04-3049	Spule 110H 6A 24x12x25 Stromwandler 115Rdc	VAC (F)# ,T60404-E4622-X50182		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
V1300	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
X1300	05-3333	SCHRAUBKLEMME 1p 90g RIA# 360410 ohne Drahtschutz	RIACON (F)# ,360410 ohne Drahtschutz; RIACON (F)# ,718408-0156		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
X1301	05-4686	Befestigungselement 5x3x4 Feder	KITAGAWA (F)# ,OG-503040		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
X1302	05-3333	SCHRAUBKLEMME 1p 90g RIA# 360410 ohne Drahtschutz	RIACON (F)# ,360410 ohne Drahtschutz; RIACON (F)# ,718408-0156		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Measuring System Neutral																				
C1400	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402KX7R 7BB 104		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C1401	02-3597	C 1µF 10% 25 V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
C1402	02-0035	C 1nF 5% 50V 0805 Keramik NP0	kemet (B)# ,C0805C102J5GACTU; AVX (B)# ,08055A102JAT2A; EPCOS (B)# ,B37940K5102J60; Yageo-Phycom (B)#,2 238 861 15102		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

C1403	02-3597	C 1µF 10% 25 V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1404	02-0371-1	C 10nF 5% 50V 0805 Keramik NP0	Murata (F)# ,GRM 2195 C1H 103 JA01D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1405	02-0371-1	C 10nF 5% 50V 0805 Keramik NP0	Murata (F)# ,GRM 2195 C1H 103 JA01D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IC1400	11-7911	STPMS1 QFN16 AD 3.2-5.5 V 16Bit Smart Sensor -40/+85°C	ST (F)# ,STPMS1BPQR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JP1401	03-0088	SL 1x2p RM2.54 male 180° zerade, gold	TOP (F)# ,7000-1X2SG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1400	01-0741	RN 4x2.2 K 5% 0.063W 1206Array 200ppm convex scalloped	BI (G)# ,CN1J 4 A TTD 222J; KOA (B)# ,CN1J 4 A TTD 222J; ASJ (G)# ,; YAGEO (B)# ,YC164-JR-072K2L; CTS (B)# ,742X-08-3 2 22 J P-TR; WALSIN (G)# ,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1401	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1404	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1405	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1406	01-1689	R 1.8R 1% 0.25W Minimelf 50ppm	Vishay-Dralo (B)# ,SMM0204 50 18R 1% B3 e3; Vishay-Dralo (B)# ,SMM02040C1809FB300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1407	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1408	01-1890	R 0R x6 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1409	01-1890	R 0R x6 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1410	01-1890	R 0R x6 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1411	01-1890	R 0R x6 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1412	01-1890	R 0R x6 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calculator and Isolation																			
C1500	02-3238	C 100nF 10% 25 V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105 BJ 104KV-F; AVX (F)# ,04023D104 KAT2 A; VISHAY (G)# Herstellerbezeichnung falsch!,VJ0402G 104KXX AT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1501	02-3238	C 100nF 10% 25 V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105 BJ 104KV-F; AVX (F)# ,04023D104 KAT2 A; VISHAY (G)# Herstellerbezeichnung falsch!,VJ0402G 104KXX AT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1502	02-3238	C 100nF 10% 25 V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105 BJ 104KV-F; AVX (F)# ,04023D104 KAT2 A; VISHAY (G)# Herstellerbezeichnung falsch!,VJ0402G 104KXX AT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1503	02-3238	C 100nF 10% 25 V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105 BJ 104KV-F; AVX (F)# ,04023D104 KAT2 A; VISHAY (G)# Herstellerbezeichnung falsch!,VJ0402G 104KXX AT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1504	02-3597	C 1µF 10% 25 V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1505	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1506	02-3238	C 100nF 10% 25 V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105 BJ 104KV-F; AVX (F)# ,04023D104 KAT2 A; VISHAY (G)# Herstellerbezeichnung falsch!,VJ0402G 104KXX AT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1507	02-3238	C 100nF 10% 25 V 0402 Keramik X5R -55/+85°C	kemet (F)# ,C0402C104K3PAC; TAIYO YUDEN (F)# ,TMK105 BJ 104KV-F; AVX (F)# ,04023D104 KAT2 A; VISHAY (G)# Herstellerbezeichnung falsch!,VJ0402G 104KXX AT	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1500	11-7910	STPMC1 TSSOP20 ASIC 32MHz Mess-ASIC f. ELSTER ST -40/+85°C	ST (F)# ,STPMC1BTR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK1500	11-9501	SI8422BD-B-IS SOIC16 Isolator 5V Dual Channel -40/+125°C	Silicon Labo (F)# ,SI8422BD-B-ISR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK1501	11-9501	SI8422BD-B-IS SOIC16 Isolator 5V Dual Channel -40/+125°C	Silicon Labo (F)# ,SI8422BD-B-ISR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK1502	11-9501	SI8422BD-B-IS SOIC16 Isolator 5V Dual Channel -40/+125°C	Silicon Labo (F)# ,SI8422BD-B-ISR	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK1500		ISO7521EDWR	Texas Instruments, ISO7521EDWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OK1501		ISO7521EDWR	Texas Instruments, ISO7521EDWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OK1502		ISO7521EDWR	Texas Instruments, ISO7521EDWR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1500	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100RFKED; YAGEO (F)# ,RC0402FR-07100RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

R1501	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100 RFKED; YAGEO (F)# ,RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1502	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100 RFKED; YAGEO (F)# ,RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1503	01-1906	R 100R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402100 RFKED; YAGEO (F)# ,RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LCD-Display																				
C1600	02-2451	C 1µF 10% 25 V 0805 Keramik X7R -55/+125°C	Murata (F)# ,GRM21BR7 1E105KA99L; YAGEO (F)# 2222 910 15603,CC0805 KKX7R8BB105; TDK (F)# ,C2012X7R1E105K		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1601	02-3746	C 100nF 10% 10 V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1602	02-3746	C 100nF 10% 10 V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1603	02-3746	C 100nF 10% 10 V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
C1604	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 8 69 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D1600	08-0575	D BZV55C3V9 Minimelf Z-Diode 3.9V 250mA 500mW -65/+200°C	PHILIPS (B)# ,BZV55C3V9; VISHAY (B)# ,TZMC3V9-GS08; NXP (F)# ,BZV55-C3V9; NXP (B)# ,BZV55C3V9	use only with LCD1600 with LCM/A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L1600	04-1300	Spule 100µH WE#74403 2101 10% 0.1A Sonderform 3.2x2.5mm Induktivität 4.55Rdc	WÜRTH (F)# ,744032101C		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LCD1600	05-9268	Dispaly AS3000 Display 65x38x2.85mm -	Shantou Gowo (F)# ,GWM51006 1-LCM/A	use ONLY with **BZV55C3V9**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LED1600	08-0123	CL-150G LED grün 1206 567nm 1fach 20mA	Citizen (F)# ,CL-150G-CD-T		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
LED1601	08-0123	CL-150G LED grün 1206 567nm 1fach 20mA	Citizen (F)# ,CL-150G-CD-T		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
LED1602	08-0123	CL-150G LED grün 1206 567nm 1fach 20mA	Citizen (F)# ,CL-150G-CD-T		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
Q1600	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(L)6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
R1600	01-3627	R 2.7K 1% 0.063W 0402	KOA (B)# ,RK73H1ETTP2 701F; YAGEO (B)# ,RC0402FR-072K7L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1601	01-0794	R 270R 1% 0.125W 0805 100ppm	ASI (B)# ,CR21-2700-FL; YAGEO (B)# ,RC0805FR-07270RL		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
R1602	01-0794	R 270R 1% 0.125W 0805 100ppm	ASI (B)# ,CR21-2700-FL; YAGEO (B)# ,RC0805FR-07270RL		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
R1603	01-0794	R 270R 1% 0.125W 0805 100ppm	ASI (B)# ,CR21-2700-FL; YAGEO (B)# ,RC0805FR-07270RL		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
R1604	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK *ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tamper Detection																				
C1700	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 - 787-15649,CC402KRX7R7BB104		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
C1720	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 8 69 15101		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
C1740	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 8 69 15101		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1700	11-7114	AH180-WG-7 SOT23 Hall-Sensor 2.5-5.5V micropower omnipolar -40/+85°C	DIODES (F)# ,AH180-WG-7		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
R1700	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-07100KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S1720	05-3455	Taster 1xEIN SMD RM2.54 180° 32V 50mA 1VA Silber Texte	ITT (F)# ,KSC401G 50SH LFS; C&K (F)# Y31C01245FP,KSC401G 50SH LFS		1	1	1	1	1	0	1	1	1	1	1	1	1	1	1
S1750	05-3455	Taster 1xEIN SMD RM2.54 180° 32V 50mA 1VA Silber Texte	ITT (F)# ,KSC401G 50SH LFS; C&K (F)# Y31C01245FP,KSC401G 50SH LFS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pushbuttons																				
C1800	02-4739	C 100pF 10% 50 V 0402 Keramik X7R	Holystone (F)# ,C0402X101K050T		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1801	02-4739	C 100pF 10% 50 V 0402 Keramik X7R	Holystone (F)# ,C0402X101K050T		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1802	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 8 69 15101		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP1800	03-0088	SL 1x2p RM2.54 male 180° gerade, gold	TOP (F)# ,7000-1X2SG		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1800	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK *ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1801	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK *ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S1800	05-3455	Taster 1xEIN SMD RM2.54 180° 32V 50mA 1VA Silber Texte	ITT (F)# ,KSC401G 50SH LFS; C&K (F)# Y31C01245FP,KSC401G 50SH LFS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S1801	05-3455	Taster 1xEIN SMD RM2.54 180° 32V 50mA 1VA Silber Texte	ITT (F)# ,KSC401G 50SH LFS; C&K (F)# Y31C01245FP,KSC401G 50SH LFS		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pulsing LEDs																				
C1900	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 - 787-15649,CC402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1901	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 - 787-15649,CC402KRX7R7BB104		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0

LED1900	08-1485	RY-SP350UHR LED rot 1206 645nm 1fach 30mA Low Current	Kingbright {F}# ,KPTL-3216SURC/K; APEX {F}# ,RY-SP350UHR24	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LED1901	08-1485	RY-SP350UHR LED rot 1206 645nm 1fach 30mA Low Current	Kingbright {F}# ,KPTL-3216SURC/K; APEX {F}# ,RY-SP350UHR24	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Q1900	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON {F}# ,BSS123 E{LJ6327; INFINEON {F}# ,Q62702-S512; NXP {F}# ,BSS123 T/R	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
R1900	01-0648	R 330R 1% 0.1W 0603 100ppm	ASJ {F}#,CR16-3300-FK; YAGEO {F}# ,RC0603FR-07330RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1901	01-0648	R 330R 1% 0.1W 0603 100ppm	ASJ {F}#,CR16-3300-FK; YAGEO {F}# ,RC0603FR-07330RL	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
R1902	01-1927	R 1M 1% 0.063W 0402 100ppm	ASJ {F}#,CR10-1004-FK; YAGEO {F}# ,RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DLMS Converter																		
C2002	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata {F}# ,GRM155R71C104K*A88D; TDK {F}# ,C1005X7R1C104KT-5; Yageo-Phycom {F}# 2238 -787-15649,C0402KRX7R7BB104	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
C2003	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata {F}# ,GRM155R71C104K*A88D; TDK {F}# ,C1005X7R1C104KT-5; Yageo-Phycom {F}# 2238 -787-15649,C0402KRX7R7BB104	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
C2004	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata {F}# ,GRM155R71C104K*A88D; TDK {F}# ,C1005X7R1C104KT-5; Yageo-Phycom {F}# 2238 -787-15649,C0402KRX7R7BB104	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
C2005	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata {F}# ,GRM155R71C104K*A88D; TDK {F}# ,C1005X7R1C104KT-5; Yageo-Phycom {F}# 2238 -787-15649,C0402KRX7R7BB104	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
C2006	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata {F}# ,GRM155R71C104K*A88D; TDK {F}# ,C1005X7R1C104KT-5; Yageo-Phycom {F}# 2238 -787-15649,C0402KRX7R7BB104	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
C2007	02-2727	C 4.7µF 10% 25V 0805 Keramik X5R	Murata {F}# ,GRM21BR61E475KA12K; Murata {F}# ,GRM21BR61E475KA12L	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
C2008	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata {F}# ,GRM155R71C104K*A88D; TDK {F}# ,C1005X7R1C104KT-5; Yageo-Phycom {F}# 2238 -787-15649,C0402KRX7R7BB104	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
D2000	08-3456	D BAS40-06 SOT23 Schottky Ultra Fast 40V 120mA 250mW -55/+150°C	On semi {F}# ,BAS40-06LT1G; INFINEON {F}# ,BAS40-06 E6327; NXP {F}# ,BAS40-06+215	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
IC2000	11-0978	STM32F101CBT6 LQFP48 µController 36MHz 32Bit 128K Flash ST -40/+85°C	ST {F}# ,STM32F101CBT6	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
Q2000	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON {F}# ,BSS123 E{LJ6327; INFINEON {F}# ,Q62702-S512; NXP {F}# ,BSS123 T/R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2001	01-1996	R 1.2K 1% 0.063W 0402 100ppm	VISHAY {F}# ,CRCW04021K20FKED; YAGEO {F}# ,RC0402FR-071K2L	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
R2002	01-2002	R 470R 1% 0.063W 0402 100ppm	YAGEO {F}# ,RC0402FR-07470RL	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
R2003	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY {F}# ,CRCW04022K20FKED; YAGEO {F}# ,RC0402FR-072K2L	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
R2004	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY {F}# ,CRCW04021K00FKED; YAGEO {F}# ,RC0402FR-071KL	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
R2008	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY {F}# ,CRCW04021K00FKED; YAGEO {F}# ,RC0402FR-071KL	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
R2011	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY {F}#,CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO {F}# ,RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2012	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY {F}# ,CRCW04021K00FKED; YAGEO {F}# ,RC0402FR-071KL	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
R2014	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY {F}# ,CRCW04021K00FKED; YAGEO {F}# ,RC0402FR-071KL	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
RN2000	01-0741-4	RN 4x2.2K 5% 0.063W 1206Array 200ppm convex scalloped	AVX {G}# CAA3A4E-xxx,AVX; BI {F}# ,BCN164A222J7; KOA {F}# ,CN1/4ATTD222J; ASJ {G}# YCNxxx,ASJ	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
SV2001	03-4830	SL 2x4p 1.27mm pitch male 180° 1.9mmmm Keine Gurtung bei MBLE möglich	SAMTEC {G}#FTS-104-01-F-DV,; SAMTEC {F}# ,ASP-127005-01; SAMTEC {F}# ,FTS-104-01-F-DV-P-TR	1	0	0	0	0	0	0	0	1	1	0	0	1	0	1
Contactor																		
C3000	02-3653	C 10mF 20% 16V RM7.5 Elko -55/+105°C	RUBYCON {F}# ,16 YXA 10000 M-EFC 18x35.5; RUBYCON {F}# ,16YXA10000MCE 18x35.5; NIPPON CHEMI {F}# ,EKMQ160ELC310JMLP1S	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
D3000	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY {F}# ,LL4150-GS*8	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
D3001	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY {F}# ,LL4150-GS*8	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
D3002	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY {F}# ,LL4150-GS*8	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
D3003	08-1122	D BZX84-C15 SOT23 Z-Diode 15V 200mA 250mW -65/+150°C	PHILIPS {F}# ,BZX84-C15; NXP {F}# ,BZX84-C15	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
R3000	01-4325	R 220K 1% 0.063W 0402 100ppm	VISHAY {F}# ,CRCW0402220KFKED; YAGEO {F}# ,RC0402FR-07220KL	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
R3001	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY {F}#,CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO {F}# ,RC0402FR-0710KL	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
R3002	01-0487	R 10K 1% 0.1W 0603 100ppm KANBAN K SMT Test	ASJ {F}#,CR16-1002-FK; YAGEO {F}# ,RC0603FR-0710KL; YAGEO {F}# ,RC0603FR-1010KL; YAGEO {F}# ,RJ0603FRE0710K	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
R3003	01-0487	R 10K 1% 0.1W 0603 100ppm KANBAN K SMT Test	ASJ {F}#,CR16-1002-FK; YAGEO {F}# ,RC0603FR-0710KL; YAGEO {F}# ,RC0603FR-1010KL; YAGEO {F}# ,RJ0603FRE0710K	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
SV3000	03-3062	SL 1x3p RM2.5 male 180° 1wandig	MOLEX {F}# ,22-04-1031; Conexcon {F}# ,2431-2031	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0
T3000	08-0331	T BCP54-16 SOT223 NPN 45V 1A 1.33W -65/+150°C	PHILIPS {F}# ,BCP54-16; NXP {F}# ,BCP54-16	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0

T3002	08-3668	T BSO615N SO8 N-Kanal 60V 2.6A 2W Dual -55/+150°C	INFINEON (F)#,BSO615NG	1	0	1	0	0	1	0	1	0	1	0	0	0	0
S0 Output 1																				
B4000	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)#,MB4STO269AA 4p; GS (F)#,MB6S TO269AA 4p; PANJIT (F)#,B4S; PANJIT (F)#,B6S T/R	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C4000	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)#,2238669 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C4001	02-0870	C 10nF 10% 50V 0603 Keramik X7R -55/+125°C	Samsung (G)#,CL10B104KB8NNNC (CL10B104KBNC); YAGEO (F)#CC0603KRX7R9BB104,2238586 15649; TDK (F)#,C1608X7R1H104KT-S	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C4002	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)#,2238669 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D4000	08-0554	D ZMY30-13 Melf Z-Diode 30V 25mA 1W -55/+175°C	VISHAY (B)#,ZMY30; SEMIKRON (B)#,ZMY30; Diotec (B)#,ZMY30	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK4000	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)#,VO615A-4X009T	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R4000	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)#,CR21-68R0-FL; YAGEO (B)#,RC0805FR-0768RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R4001	01-1994	R 4.7K 1% 0.063W 0402 100ppm	YAGEO (F)#,RC0402FR-074K7L; Dale (F)#,CRCW04024K70FKED	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R4002	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)#,CR21-68R0-FL; YAGEO (B)#,RC0805FR-0768RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
RN4000	01-0741-4	RN 4x2.2K 5% 0.063W 1206Array 200ppm convex scalloped	AVX (G)# CRA3A4E-xxx,AVX; BI (F)#,BCN164A222J7; KOA (F)#,CN1J4ATTD222J; ASJ (G)# YCNxxx,ASJ	1	1	1	1	1	1	1	1	1	1	1	1	1	1
T4000	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)#,BCX70H E6327	1	1	1	1	1	1	1	1	1	1	1	1	1	1
X4000	03-7550	Schraubklemme 2x3p RM5.08 female 90° 2xStock	WIELAND (F)#,25.179.5353.0; Conectronics (F)#,TEBL-1872508706	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S0 Output 2																				
B4100	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)#,MB4STO269AA 4p; GS (F)#,MB6S TO269AA 4p; PANJIT (F)#,B4S; PANJIT (F)#,B6S T/R	1	1	1	0	0	0	0	0	0	0	1	1	1	1
C4100	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)#,2238669 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C4101	02-0870	C 10nF 10% 50V 0603 Keramik X7R -55/+125°C	Samsung (G)#,CL10B104KB8NNNC (CL10B104KBNC); YAGEO (F)#CC0603KRX7R9BB104,2238586 15649; TDK (F)#,C1608X7R1H104KT-S	1	1	1	0	0	0	0	0	0	0	1	1	1	1
C4102	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)#,2238669 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D4100	08-0554	D ZMY30-13 Melf Z-Diode 30V 25mA 1W -55/+175°C	VISHAY (B)#,ZMY30; SEMIKRON (B)#,ZMY30; Diotec (B)#,ZMY30	1	1	1	0	0	0	0	0	0	0	1	1	1	1
OK4100	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)#,VO615A-4X009T	1	1	1	0	0	0	0	0	0	0	1	1	1	1
R4100	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)#,CR21-68R0-FL; YAGEO (B)#,RC0805FR-0768RL	1	1	1	0	0	0	0	0	0	0	1	1	1	1
R4101	01-1994	R 4.7K 1% 0.063W 0402 100ppm	YAGEO (F)#,RC0402FR-074K7L; Dale (F)#,CRCW04024K70FKED	1	1	1	0	0	0	0	0	0	0	1	1	1	1
R4102	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)#,CR21-68R0-FL; YAGEO (B)#,RC0805FR-0768RL	1	1	1	0	0	0	0	0	0	0	1	1	1	1
T4100	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)#,BCX70H E6327	1	1	1	0	0	0	0	0	0	0	1	1	1	1
S0 Output 3																				
B4200	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150°C	GS (F)#,MB4STO269AA 4p; GS (F)#,MB6S TO269AA 4p; PANJIT (F)#,B4S; PANJIT (F)#,B6S T/R	1	0	0	0	0	0	0	0	0	0	1	1	1	1
C4200	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)#,2238669 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C4201	02-0870	C 10nF 10% 50V 0603 Keramik X7R -55/+125°C	Samsung (G)#,CL10B104KB8NNNC (CL10B104KBNC); YAGEO (F)#CC0603KRX7R9BB104,2238586 15649; TDK (F)#,C1608X7R1H104KT-S	1	0	0	0	0	0	0	0	0	0	1	1	1	1
C4202	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)#,2238669 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D4200	08-0554	D ZMY30-13 Melf Z-Diode 30V 25mA 1W -55/+175°C	VISHAY (B)#,ZMY30; SEMIKRON (B)#,ZMY30; Diotec (B)#,ZMY30	1	0	0	0	0	0	0	0	0	0	1	1	1	1
OK4200	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 1fach 6kV High Temperature	VISHAY (F)#,VO615A-4X009T	1	0	0	0	0	0	0	0	0	0	1	1	1	1
R4200	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)#,CR21-68R0-FL; YAGEO (B)#,RC0805FR-0768RL	1	0	0	0	0	0	0	0	0	0	1	1	1	1
R4201	01-1994	R 4.7K 1% 0.063W 0402 100ppm	YAGEO (F)#,RC0402FR-074K7L; Dale (F)#,CRCW04024K70FKED	1	0	0	0	0	0	0	0	0	0	1	1	1	1
R4202	01-0842	R 68R 1% 0.125W 0805 100ppm	ASJ (B)#,CR21-68R0-FL; YAGEO (B)#,RC0805FR-0768RL	1	0	0	0	0	0	0	0	0	0	1	1	1	1
T4200	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)#,BCX70H E6327	1	0	0	0	0	0	0	0	0	0	1	1	1	1
230V Output																				
D4300	08-3595	D SMCJ350CA DO-214AB Supressordiode 350V 2.6A 1500W -55/+150°C bidirektional	LITTELFUSE (B)#,SMCJ350CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OK4300	11-2695	LH1540 Optokoppler DIL6SMD 1fach 5.3kV 50mA 250mAlSchaltstrom	VISHAY (F)#,LH1540AABTR; INFINEON (f)#,LH1540AAB-TR	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Q4300	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)#,BSS123 E{LJ6327; INFINEON (F)#,Q62702-S512; NXP (F)#,BSS123 T/R	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230V Input 1																			
C5000	02-2178	C 1µF 10% 16V 0603 Keramik X5R	TAIYO YUDEN (F)#,EMK107B7105KA-T; AVX (F)#,0603YD105KAT2A; Murata (F)#,GRM188R61C105KA12D; Murata (F)#,GRM188R61C105KA93D; KYOCERA (F)#,0603YD105KAT2A	1	0	0	1	0	0	1	0	0	1	0	0	0	0
D5000	08-1120	D BAS40-05 SOT23 Schottky 40V 120mA -65/+150°C double	PHILIPS (F)#,BAS40-05; NXP (F)#,BAS40-05	1	0	0	1	0	0	1	0	0	1	0	0	0	0
OK5000	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 18ach 6kV High Temperature	VISHAY (F)#,VO615A-4X009T	1	0	0	1	0	0	1	0	0	1	0	0	0	0
R5000	01-4442	R 180K 1% 0.063W 0402 100ppm	YAGEO (F)#,RC0402FR-07180KL	1	0	0	1	0	0	1	0	0	1	0	0	0	0
R5001	01-0672	R 2.2K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204 50 1% B* 22K; VISHAY (F)#,MMA 0204 -50 1% B0 22 K,MMA02040C2202FB000; VISHAY (F)#,MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)#,RN41 2ES T TE* 2202 F 50	1	0	0	1	0	0	1	0	0	1	0	0	0	0
R5002	01-0672	R 2.2K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204 50 1% B* 22K; VISHAY (F)#,MMA 0204 -50 1% B0 22 K,MMA02040C2202FB000; VISHAY (F)#,MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)#,RN41 2ES T TE* 2202 F 50	1	0	0	1	0	0	1	0	0	1	0	0	0	0
R5003	01-0672	R 2.2K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204 50 1% B* 22K; VISHAY (F)#,MMA 0204 -50 1% B0 22 K,MMA02040C2202FB000; VISHAY (F)#,MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)#,RN41 2ES T TE* 2202 F 50	1	0	0	1	0	0	1	0	0	1	0	0	0	0
R5004	01-0672	R 2.2K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204 50 1% B* 22K; VISHAY (F)#,MMA 0204 -50 1% B0 22 K,MMA02040C2202FB000; VISHAY (F)#,MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)#,RN41 2ES T TE* 2202 F 50	1	0	0	1	0	0	1	0	0	1	0	0	0	0
R5005	01-1910	R 1.5K 1% 0.063W 0402 100ppm	VISHAY (F)#,RCA04021K50FKED; VISHAY (F)#,RCA04021K50RKTD; YAGEO (F)#,RC0402FR-071K5L	1	0	0	1	0	0	1	0	0	1	0	0	0	0
X5000	03-1237	Schraubklemme 1x3p RM5.08 female 90° MKDSN 1,5/3-5,08	PHOENIX (F)#MKDSN 1,5/3-5,08,1729131	1	0	0	1	0	0	1	0	0	1	0	0	0	0
230V Input 2																			
C5100	02-2178	C 1µF 10% 16V 0603 Keramik X5R	TAIYO YUDEN (F)#,EMK107B7105KA-T; AVX (F)#,0603YD105KAT2A; Murata (F)#,GRM188R61C105KA12D; Murata (F)#,GRM188R61C105KA93D; KYOCERA (F)#,0603YD105KAT2A	1	0	0	1	0	0	0	0	0	0	0	0	0	0
OK5100	08-4597	VO615A-4X009T Optokoppler 6.5x4.58x3.6mm DIP4/SMD 18ach 6kV High Temperature	VISHAY (F)#,VO615A-4X009T	1	0	0	1	0	0	0	0	0	0	0	0	0	0
R5100	01-4442	R 180K 1% 0.063W 0402 100ppm	YAGEO (F)#,RC0402FR-07180KL	1	0	0	1	0	0	0	0	0	0	0	0	0	0
R5101	01-1910	R 1.5K 1% 0.063W 0402 100ppm	VISHAY (F)#,RCA04021K50FKED; VISHAY (F)#,RCA04021K50RKTD; YAGEO (F)#,RC0402FR-071K5L	1	0	0	1	0	0	0	0	0	0	0	0	0	0
R5102	01-0672	R 2.2K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204 50 1% B* 22K; VISHAY (F)#,MMA 0204 -50 1% B0 22 K,MMA02040C2202FB000; VISHAY (F)#,MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)#,RN41 2ES T TE* 2202 F 50	1	0	0	1	0	0	0	0	0	0	0	0	0	0
R5103	01-0672	R 2.2K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204 50 1% B* 22K; VISHAY (F)#,MMA 0204 -50 1% B0 22 K,MMA02040C2202FB000; VISHAY (F)#,MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)#,RN41 2ES T TE* 2202 F 50	1	0	0	1	0	0	0	0	0	0	0	0	0	0
R5104	01-0672	R 2.2K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204 50 1% B* 22K; VISHAY (F)#,MMA 0204 -50 1% B0 22 K,MMA02040C2202FB000; VISHAY (F)#,MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)#,RN41 2ES T TE* 2202 F 50	1	0	0	1	0	0	0	0	0	0	0	0	0	0
R5105	01-0672	R 2.2K 1% 0.25W Minimelf 50ppm	VISHAY (F)#,MMA 0204 50 1% B* 22K; VISHAY (F)#,MMA 0204 -50 1% B0 22 K,MMA02040C2202FB000; VISHAY (F)#,MMA 0204 -50 1% BL 22K,MMA02040C2202FB300; KOA (F)#,RN41 2ES T TE* 2202 F 50	1	0	0	1	0	0	0	0	0	0	0	0	0	0
R5106	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04021K00FKED; YAGEO (F)#,RC0402FR-071KL	1	0	0	1	0	0	0	0	0	0	0	0	0	0
IO-Board																			
C6000	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)#,GRM155R71C104K*A88D; TDK (F)#,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	1	1	1	1	1	1	0	1	1	1	1	1	1	1
C6001	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)#,GRM155R71C104K*A88D; TDK (F)#,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	1	1	1	1	1	1	0	1	1	1	1	1	1	1
C6002	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)#,GRM155R71C104K*A88D; TDK (F)#,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	1	1	1	1	1	1	0	1	1	1	1	1	1	1

C6003	02-3746	C 100nF 10% 10V 0603 Keramik X7R -55/+125°C	Holystone (F)# ,C0603X104K010TX	1	1	1	1	1	1	0	1	1	1	1	1	1	1
C6004	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402KRX7R7BB104	1	1	1	1	1	1	0	1	1	1	1	1	1	1
C6005	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402KRX7R7BB104	1	1	1	1	1	1	0	1	1	1	1	1	1	1
R6000	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-07100KL	1	1	1	1	1	1	0	1	1	1	1	1	1	1
R6001	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	1	1	1	1	1	0	1	1	1	1	1	1	1
R6002	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R6003	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R6004	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R6005	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R6006	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	1	1	1	1	1	0	1	1	1	1	1	1	1
R6007	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-07100KL	1	1	1	1	1	1	0	1	1	1	1	1	1	1
R6008	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-07100KL	1	1	1	1	1	1	0	1	1	1	1	1	1	1
R6009	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-07100KL	1	1	1	1	1	1	0	1	1	1	1	1	1	1
SV6000	03-7909	Stapel-SL 2x6p RM2.54 male 180° 23.62 SL=12.57mm	SAMTEC (F)# ,DW-06-11-F-D-495	1	0	0	0	0	0	0	0	0	0	0	0	0	0
SV6001	03-7908	Stapel-SL 2x4p RM2.54 male 180° 23.62 SL=12.57mm	SAMTEC (F)# ,DW-04-11-F-D-495	0	1	1	1	1	0	1	1	1	1	1	1	1	1
RS485																			
C7000	02-2204	C 100nF 10% 16V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7001	02-0260	C 100nF 10% 50V 0805 Keramik X7R	kemet (F)# ,C0805C104K5RAC; AVX (F)# ,0805 5C104KAT2A	1	1	1	0	1	1	1	1	1	1	1	1	1	1
C7002	02-1887	C 10pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 669 15101	1	1	1	0	1	1	1	1	1	1	1	1	1	1
C7003	02-1887	C 10pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 669 15101	1	1	1	0	1	1	1	1	1	1	1	1	1	1
C7004	02-1887	C 10pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 669 15101	1	1	1	0	1	1	1	1	1	1	1	1	1	1
C7005	02-1887	C 10pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 669 15101	1	1	1	0	1	1	1	1	1	1	1	1	1	1
C7006	02-1906	C 22pF 5% 50V 0402 Keramik X7R	AVX (F)# ,04025C221JAT *2A; Samsung (G)# ,CL05B221KB5NNNC (CL05B221KBNC); KYOCERA (B)# ,(CM)05X7R221J50*AH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7007	02-1906	C 22pF 5% 50V 0402 Keramik X7R	AVX (F)# ,04025C221JAT *2A; Samsung (G)# ,CL05B221KB5NNNC (CL05B221KBNC); KYOCERA (B)# ,(CM)05X7R221J50*AH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7000	08-4776	D PESD12VS4UD SC-74 Überspannungsschutz 12V -65/+150°C ESD-Schutz-Array	NXP (F)# ,PESD12VS4UD	1	1	1	0	1	1	1	1	1	1	1	1	1	1
D7001	08-3578	D SM2T6V8A DO-216AA Suppressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A	1	1	1	0	1	1	1	1	1	1	1	1	1	1
D7002	08-3578	D SM2T6V8A DO-216AA Suppressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A	1	1	1	0	1	1	1	1	1	1	1	1	1	1
D7003	08-3578	D SM2T6V8A DO-216AA Suppressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A	1	1	1	0	1	1	1	1	1	1	1	1	1	1
D7004	08-3578	D SM2T6V8A DO-216AA Suppressordiode 6.8V 25A 200W -65/+175°C	ST (F)# ,SM2T6V8A	1	1	1	0	1	1	1	1	1	1	1	1	1	1
IC7000	11-7213	MAX481ESA SO8 Interface 12V -40/+85°C	MAXIM (F)# ,MAX 481 ESA +T	1	1	1	0	1	1	1	1	1	1	1	1	1	1
J7000	03-6170-1	Buchse 6p RM1.02 female 90° schwarz Jack	NEXUS (F)# ,E5566-006022	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L7000	04-0797	Spule 2x6.5mH 50% 0.6A Sonderform 0.42Rdc	WÜRTH (F)# ,744 229	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7000	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215	1	1	1	0	1	1	1	1	1	1	1	1	1	1
Q7001	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(LJ6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R	1	1	1	0	1	1	1	1	1	1	1	1	1	1
Q7002	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(LJ6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R	1	1	1	0	1	1	1	1	1	1	1	1	1	1
R7000	01-0799	R 560R 1% 0.125W 0805 100ppm	KOA (F)# ,RK73H2ATTD560F; ASJ (F)# ,CR21-560F; YAGEO (F)# ,RC0805FR-07560RL	1	1	1	0	1	1	1	1	1	1	1	1	1	1
R7001	01-0799	R 560R 1% 0.125W 0805 100ppm	KOA (F)# ,RK73H2ATTD560F; ASJ (F)# ,CR21-560F; YAGEO (F)# ,RC0805FR-07560RL	1	1	1	0	1	1	1	1	1	1	1	1	1	1
R7002	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0

R7003	01-1890	R 0 R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7004	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)#,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
RN7000	01-1090	RN 4x100 R 5% 0.063W 1206 Array 200ppm convex scalloped	KOA (F)# ,CN1J 4 A TTD 101J; CTS (G)#,742-083-101-JP-TR; WALSIN (G)#,; Bourns (G)#,CAY16-101J4	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1
RS232																			
C7100	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7101	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7102	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7103	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IC7100	11-4433	MAX3221EEAE SSOP16 Interface 3-5.5V RS-232 Transceivers -40/+85°C	TEXAS (F)# ,MAX3221IDB; TEXAS (F)# ,MAX3221IDBG4; MAXIM (F)# ,MAX3221EAE+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L7100	04-1300	Spule 100µH WE#74403 2101 10% 0.1A Sonderform 3.2x2.5mm Induktivität 4.55Rdc	WÜRTH (F)# ,744032101C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CL0																			
C7200	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
C7201	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649,C0402KRX7R7BB104	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
D7200	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
D7201	08-2317	D ZMY33 Melf Z-Diode 33V 1W -55/+175°C	VISHAY (F)# ,ZMY33	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
D7202	08-1120	D BAS40-05 SOT23 Schottky 40V 120mA -65/+150°C double	PHILIPS (F)# ,BAS40-05; NXP (F)# ,BAS40-05	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
D7203	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
D7204	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
IC7200	06-1859	SN74LVC2G14 SC70-6 CMOS 1.65-5.5V 0-5.5V DUAL Schmitt-Trigger -40/+85°C	TEXAS (F)# ,SN74LVC2G14DCKR	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
L7200	04-1300	Spule 100µH WE#74403 2101 10% 0.1A Sonderform 3.2x2.5mm Induktivität 4.55Rdc	WÜRTH (F)# ,744032101C	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
L7300	04-1300	Spule 100µH WE#74403 2101 10% 0.1A Sonderform 3.2x2.5mm Induktivität 4.55Rdc	WÜRTH (F)# ,744032101C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q7200	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E(L)6327; INFINEON (F)# ,Q62702-S512; NXP (F)# ,BSS123 T/R	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Q7201	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7200	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7201	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)#, CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7202	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7203	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)#, CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7204	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)#, CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7205	01-1927	R 1 M 1% 0.063 W 0402 100ppm	ASJ (F)#,CR10-1004-FK; YAGEO (F)# ,RC0402FR-071ML	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7206	01-1890	R 0 R x% 0.063W 0402 <50mOhm	VISHAY (F)#,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7207	01-0573	R 100R 1% 0.125W 0805 100ppm	VISHAY (F)#,CRCW 0805 1000 F 100 RT6; KOA (F)# ,RK73H 2A T TD 1000 F; ASJ (F)# ,CR21 1000 FL; YAGEO (F)# ,RC0805FR-07100RL	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
R7208	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)#, CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
T7200	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
T7201	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
T7202	08-1097	T BCX70H SOT23 NPN 45V 100mA 330mW -65/+150°C	INFINEON (F)# ,BCX70H E6327	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0

Optical port																		
C7300	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402K RK7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7301	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402K RK7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7302	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402K RK7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7303	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402K RK7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LED7300	38-0184	SFH487-2 LED 3mm Infrarot RM2.54 880nm 1fach 100mA	OSRAM (F)# Q62703Q2174;SFH487-2RN29A; OSRAM (F)# ,SFH487-2RN29C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7300	01-2649	R 330R 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP 3300F; YAGEO (F)# ,RC0402FR-07330RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7301	01-3248	R 2.21R 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-072.21RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7302	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10 K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7303	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7304	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10 K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7305	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10 K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7306	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7307	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7308	01-1911	R 1 K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7300	38-0183	Fototransistor 3x5 RM2.54 geschnitten stehend 18.2mm BT.08-1508	OSRAM (F)# ,SFH309FA-3/4 RN23A; OSRAM (F)# ,SFH309FA-3/4 RN29A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Comms Port																		
C7400	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402K RK7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7401	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 669 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7402	02-1887	C 100pF 5% 50V 0402 Keramik NP0 -55/+125°C	Yageo-Phycom (F)# ,223 8 669 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7403	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-5; Yageo-Phycom (F)# 2238 -787-15649.0402K RK7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK7400	11-8673-1	PC123X1YUP0F Optokoppler SMD-4 1fach 5kV	SHARP (F)# ,PC123X1YUP0F SHARP (F)# ,PC123ZY1J0QF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK7401	11-8673-1	PC123X1YUP0F Optokoppler SMD-4 1fach 5kV	SHARP (F)# ,PC123X1YUP0F SHARP (F)# ,PC123ZY1J0QF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7400	08-0154	T BC857C SOT23 PNP 45V 100mA 250mW -6.5/+150°C	PHILIPS (B)# ,BC857C; INFINEON (B)# ,BC857C; LRC (B)# ,LBC857 CLT1; NXP (B)# ,BC857C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7400	01-0799	R 560R 1% 0.125W 0805 100ppm	KOA (F)# ,RK73H2ATTD5600F; ASJ (F)# ,CR21-5600F; YAGEO (F)# ,RC0805FR-07560RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7401	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10 K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7402	01-0160	R 0R x% 0.25W 1206	YAGEO (F)# ,RC1206JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7403	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7404	01-0160	R 0R x% 0.25W 1206	YAGEO (F)# ,RC1206JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7405	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7406	01-0648	R 330R 1% 0.1W 0603 100ppm	ASJ (F)#,CR16-3300-FK; YAGEO (F)# ,RC0603FR-07330RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7407	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7408	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW04020000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SV7400	03-6451	BL 2x6 p RM2.54 female 180°	SAMTEC (F)# ,SSW-106-01-F-D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Serial IO-Selection																		
C7500	02-1197	C 1nF 10% 50V 0402 Keramik X7R	TAIYO YUDEN (F)# ,UMK105B7102KV-F; Murata (F)# RoHS,GRM155R71H102KA01D; Yageo-Phycom (F)# CC402KRX7R9B102,2 23 858 715 623	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7501	02-3597	C 1µF 10% 25 V 0805 Keramik X7R spez. Anschlüsse -55/+125°C nur für Elster -> siehe Text	Holystone (F)# ,C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

C7502	02-1197	C 1nF 10% 50V 0402 Keramik X7R	TAIYO YUDEN (F)# ,UMK105B7102KV-F; Murata (F)# RoHS,GRM155R71H102KA01D; Yageo-Phycom (F)# CC0402KRX7R9BB102,2 23 858 715 623	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7503	02-2204	C 100nF 10% 16 V 0402 Keramik X7R -55/+125°C KANBAN SMT Test	Murata (F)# ,GRM155R71C104K*A88D; TDK (F)# ,C1005X7R1C104KT-S; Yageo-Phycom (F)# 2238 - 787-15649,CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7500	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7501	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
D7502	08-1107	D LL4150GS08 Minimelf Silizium 50V 600mA 500mW -65/+175°C	VISHAY (F)# ,LL4150-GS*8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7503	08-1120	D BAS40-05 SOT23 Schottky 40V 120mA -65/+150°C double	PHILIPS (F)# ,BAS40-05; NXP (F)# ,BAS40-05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC7500	06-0297-1	CD74HCT86 SO14 CMOS 4.5-5.5V 0-5.5V QUAD EXOR -40/+85°C	PHILIPS (F)# ,74HCT86 D; PHILIPS (F)# ,74HCT86 D RL; NXP (F)# ,74HCT86 D RL; NXP (F)# ,74 HCT86D (RL)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7500	08-0503	T BSS123 SOT23 N-Kanal 100V 0.17A 0.36W -55/+150°C	INFINEON (F)# ,BSS123 E{L6327; INFINEON (F)# ,CL62702-S512; NXP (F)# ,BSS123 T/R	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
Q7501	08-0275-4	T BSS84 SOT23 P-Kanal 50V 130mA 250mW Rds max. 10R -65/+150°C	FAIRCHILD (F)# ,BSS84; INFINEON (F)# ,BSS84P-E6327; INFINEON (F)# ,BSS84P-L6327; NXP (F)# ,BSS84,215	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R7500	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
R7501	01-3474	R 220R 1% 0.063W 0402 100ppm	Dale (F)# ,CRCW0402220RFKED; Yageo-Phycom (F)# ,RC0402FR-07220RL	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
R7502	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7; YAGEO (F)# ,RC0402FR-0710KL	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
R7503	01-3455	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K0FKED; KOA (F)# ,RK73H1ETTP2202 F; YAGEO (F)# ,RC0402FR-0722KL; Yageo-Phycom (F)# ,RC0402FR-0722K	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
R7504	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
R7505	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
R7506	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	1	1	1	1	1	1	0	0	1	1	0	1	0		
R7507	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	1	1	1	1	1	1	0	0	1	1	0	1	0		
R7508	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
R7509	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R7510	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	0	0	0	0	0	0	1	1	0	0	1	0	1		
R7511	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	1	1	1	1	1	1	0	0	1	1	0	1	0		
R7512	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
R7513	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R7514	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	1	1	1	0	1	1	1	1	1	1	1	1	1	1		
R7515	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
R7516	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R7517	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R7519	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED; VISHAY (F)# ,CRCW0402000ZSED; YAGEO (F)# ,RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
R7520	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F; YAGEO (F)# ,RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R7521	01-3307	R 10M 1% 0.063W 0402 100ppm	YAGEO (B)# ,RC0402FR-0710ML; Yageo-Phycom (B)# ,RC0402FR-0710ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R7522	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED; YAGEO (F)# ,RC0402FR-071KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
R7523	01-2001	R 2.2K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04022K20FKED; YAGEO (F)# ,RC0402FR-072K2L	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Parts not in Groups																			
A1440	21-0545	Baugr. A1440 Abschalteinheit mit Schrauben		0	0	1	0	0	1	0	1	0	1	0	0	0	0		
KBD	05-7443-abc	A1440Y Klemmblock direkt komplett		1	1	0	1	1	0	1	0	1	0	0	0	0	0		
KBW	05-8078-abc	A1440Y Klemmblock MWZ komplett LA3002831	Ikusto GmbH (F)# ,40091402	0	0	0	0	0	0	0	0	0	0	1	1	1	1		

LCR_L	03-7639	Clip Kontakt 1p RM3.4 female 180° Quick-Fit Messing	KEYSTONE (F)# ,Cat. No. 3557	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LCR_N	03-7639	Clip Kontakt 1p RM3.4 female 180° Quick-Fit Messing	KEYSTONE (F)# ,Cat. No. 3557	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCB	15-4430-6	PCB Elster AS3000V HAL Pb TG: 130 ML4 Rev. 1.3 2x Nutzen 158.5x138. 3mm U L	Würth-Rot (F)# ,Würth-Rot (F)# ,376889	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WIP	18-3442	BMK-Label 7x7mm Polyester weiß 2D-WIP-Label BMK-Standard RT 05-7263 mit Klartext S siehe Text/Bild		1	1	1	1	1	1	1	1	1	1	1	1	1	1

Layer(s):

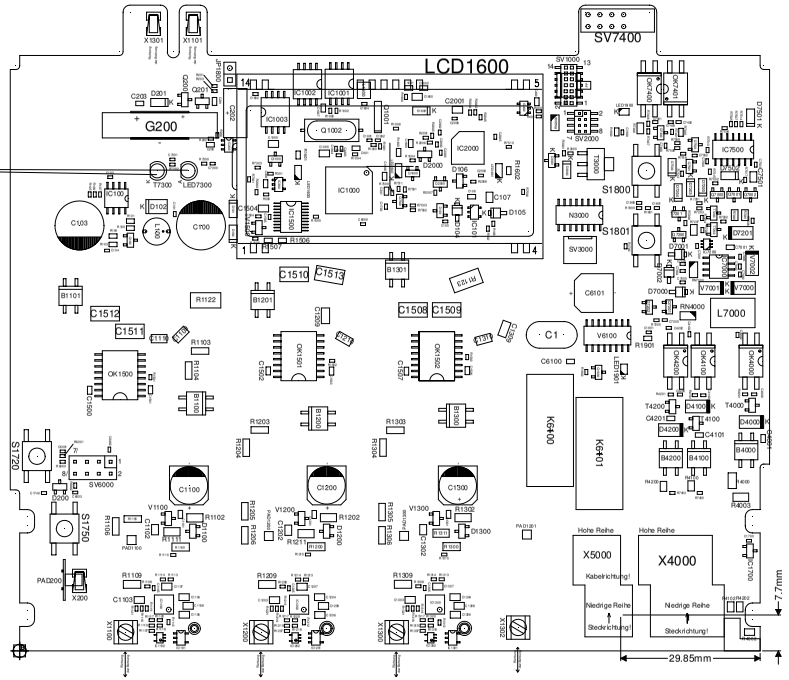
Assembly Top

Legend

Installation height LCD1600: PCB surface - LCD bottom : 24.7mm +/- 0.3mm
Einbauhöhe LCD1600: Oberseite PCB - Unterseite LCD: 24.7mm +/- 0.3mm

Installation height T7300 and LED7300 :
PCB surface - component topside : 20 +/- 0.2mm
Check polarity

Einbauhöhe T7300 und LED7300:
Oberseite PCB - Bauteiloberseite: 20+/- 0.2mm
Polung prüfen



	Funktionsstand		Datum	16.01.2017	AS3000DTC	ELSTER	Kunde-Projekt-Nr.
	Erzeugnisstand		Bearbeitet	SS/JK	Rev.: 2.0		Kunde-PCB-Nr.
	Unterlagenstand		Geprueft				
			Frei gegeben		Ersetzt	Ersetzt durch	

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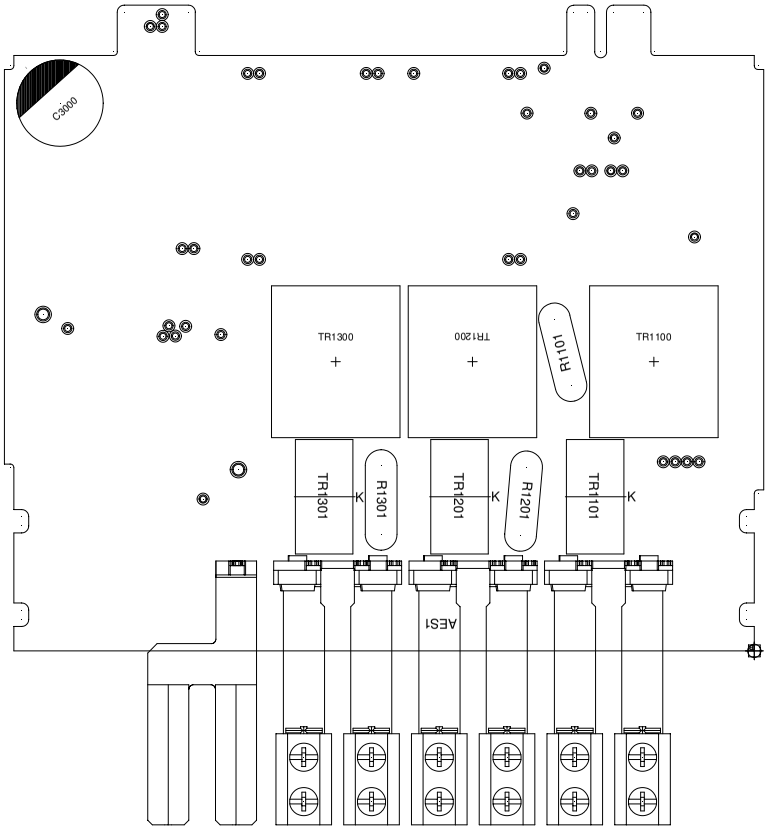

Layer(s):	
Assembly Bottom	
Legend	

	Funktionsstand		Datum	16.01.2017	AS3000DTC Rev.: 2.0	ELSTER	Kunde-Projekt-Nr.
	Erzeugnisstand		Bearbeitet	SS/JK			Kunde-PCB-Nr.
	Unterlagenstand		Geprueft				
			Frei gegeben		Ersetzt	Ersetzt durch	

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Component list AS3000DTC Rev. 2.0.7

Referenz	Part name		Part No.	Manufacturer	Ord.No.	Manufacturer	full R00	DC R32	DC R34	DC R39	CT 133-230V R44	CT with DLMS R42	DC R90	CT 91
General														
C1	CAPC 2n2 20% 500V Y5U RM9.5 THT	CAPC 2,2nF 20% 500V Y5U RM9.5 THT	02-4118	Vishay	440LD22-RGJ	VISHAY (F)# 440LD22-R VISHAY (F)# 440LD22-R GJ	0	0	0	0	0	0	0	0
R1122	RES 0R x% 1W 200ppm 2512	RES 0R -% 1W xppm 2512 SMT	01-3586-1	Yageo	RC2512JK-070RL	YAGEO (F)# RC2512JK-070RL	1	1	1	1	1	1	1	1
R1123	RES 0R x% 1W 200ppm 2512	RES 0R -% 1W xppm 2512 SMT	01-3586-1	Yageo	RC2512JK-070RL	YAGEO (F)# RC2512JK-070RL	0	0	0	0	0	0	0	0
X1302	KL 1p 90° RM3.5 THT	KL 1p 90° RM3.5 THT	05-3333	Riacon	718408-0156	RIACON (F)# 360410 ohne Drahtschutz	1	1	1	1	1	1	1	1
X5000	Klemme 2x2p 90° RM5.08 THT	KL 2x2p 90° RM5.08 THT	03-4393	Wieland	25.179.5253.0	WIELAND (F)# 25.179.5253.0	1	1	1	1	1	1	0	0
Power supply														
C100	CAPE 3m3 20% 6V3 RM5 THT 5000h@105°C 12,5x20mm	CAPE 3,3mF 20% 6,3V RM5 THT 5000h@105°C Z 12,5x20mm	32-5932	Nichicon	UHV1A332MHDTO	PANASONIC (F)# EEUFM0J332B RUBYCON (F)# 6.3ZL3300MEFC CE 12.5x20 RUBYCON (F)# 6.3ZLG3300MEFC CE 12.5x20 RUBYCON (F)# 6.3ZLQ3300MEFC CE 10x20 NICHICON (F)# UHV0J332MHDCV	1	1	1	1	1	1	1	1
C101	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1
C102	CAPC 220p 5% 50V X7R 0402	CAPC 220pF 5% 50V X7R 0402 SMT	02-1906	AVX	04025C221JAT2A	AVX (F)# 04025C221JAT2A	1	1	1	1	1	1	1	1
C103	CAPE 330µ 20% 50V 7000h@105°C RM5 THT 18x35.5mm	CAPE 330µF 20% 50V 7000h@105°C RM5 THT lowImp 78mR 10x20mm	02-3712	Rubycon	50YXF330MEFCCE10x20	RUBYCON (F)# 50 YXF 330M CE 10x20 RUBYCON (F)# 50 YXF 330M EFC CE	1	1	1	1	1	1	1	1
C104	CAPC 100n 10% 50V X7R 0402	CAPC 100nF 10% 50V X7R 0402 SMT	02-3514	Capax	0402X104K500SNT	Capax (F)# 0402X104K500SNT	1	1	1	1	1	1	1	1
C105	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1
C106	CAPC 1µ 10% 25V X5R 0603	CAPC 1µF 10% 25V X5R 0603 SMT	02-2214	Taiyo Yuden	Yuden TMK107BJ105KAHT	TAIYO YUDEN (F)# TMK107BJ105KA-T	1	1	1	1	1	1	1	1
C107	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-2451	Yageo	CC0805KKX7R8BB105	Murata (F)# GRM21BR71E105KA99L YAGEO (F)# CC0805KKX7R8BB105 TDK (F)# C2012X7R1E105K	1	1	1	1	1	1	1	1
D100	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	1	1	1	1	1	1	1

D101	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	1	1	1	1	1	1	1
D102	DIO ES1D 140V 1A SMA	DIO ES1D 140V 1A uni SMA SMT	08-0842	Panjit	ES1D	PANJIT (F)# ES1D PANJIT (F)# ES1D_R1_0 PANJIT (F)# ES1D_R1_00001 PANJIT (F)# ES1D_R2_00007	1	1	1	1	1	1	1	1
D103	DIO BAS40-06 40V 120mA SOT-23	DIO BAS40-06 40V 120mA uni SOT23 SMT	08-3456	NXP	BAS40-06	Onsemi (F)# BAS40-06LT1G INFINEON (F)# BAS40-06 E6327 NXP (F)# BAS40-06 NXP (F)# BAS40-06,215 NXP (F)# BAS40-06,235	1	1	1	1	1	1	1	1
D104	DIO SM2T6V8A 6V8 25A DO216AA	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	08-3578	ST	SM2T6V8A	ST (F)# SM2T6V8A VISHAY (F)# SMP5.0A-M3/84A	1	0	0	0	0	0	0	0
D105	DIO SM2T6V8A 6V8 25A DO216AA	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	08-3578	ST	SM2T6V8A	ST (F)# SM2T6V8A VISHAY (F)# SMP5.0A-M3/84A	1	0	0	0	0	0	0	0
D106	DIO BAS40 40V 120mA SOT-23	DIO BAS40 40V 120mA uni SOT23 SMT	08-1146	NXP	BAS40	Onsemi (F)# BAS40LT1G NXP (G)# BAS40	1	0	0	0	0	0	0	0
IC100	IC MC34063 SO-6 Switching regulator	IC MC34063EBD -40/+125°C SO8 SMT Schaltregler	11-8546	ST	MC34063EBD-TR	ST (F)# MC34063EBD-TR	1	1	1	1	1	1	1	1
IC101	IC NCP551SN33 SOT-23-5 Regulator	IC NCP551SN33T1G -40/+85°C SOT23-5 SMT Spannungsregler	11-6112	Onsemi	NCP551SN33T1G	Onsemi (F)# NCP551SN33T1G	1	1	1	1	1	1	1	1
L100	COIL 100µH 10% 0R7 0.68A	COIL 100µH 10% 700mR 680mA 5.8x5.8x4.8mm SMT	04-4089	Bourns	SDR0604-101KL	Bourns (F)# SDR0604-101KL Ole Wolff (F)# OWISE54-101K-R-T1-LF	1	1	1	1	1	1	1	1
Q100	T PBSS5250T PNP 50V 2A SOT-23	T PBSS5250T PNP 50V 2A SOT23 SMT	08-3676	NXP	PBSS5250T	NXP (F)# PBSS5250T	1	1	1	1	1	1	1	1
R100	RES 270R 1% 0.1W 100ppm 0603	RES 270R 1% 0,1W 100ppm 0603 SMT	01-0887	Yageo	RC0603FR-07270RL	ASJ (F)# CR16-2700-FL YAGEO (F)# RC0603FR-07270RL	1	1	1	1	1	1	1	1
R101	RES 1k 1% 0.1W 100ppm 0603	RES 1K 1% 0,1W 100ppm 0603 SMT	01-0610	Yageo	RC0603FR-071KL	ASJ (F)# CR16-1001-FK ASJ (F)# CR16-1001-FL ASJ (F)# CR16-1001-FY YAGEO (F)# RC0603FR-071KL	1	1	1	1	1	1	1	1
R102	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	0	1	1
R103	RES 1R 1% 0.1W 200ppm 0603	RES 1R 1% 0,1W 200ppm 0603 SMT	01-1199-2	Yageo	RC0603FR-131RL	ASJ (F)# CR16-1R00-FL YAGEO (F)# RC0603FR-071RL YAGEO (F)# RC0603FR-131RL	1	1	1	1	1	1	1	1
R104	RES 1R 1% 0.1W 200ppm 0603	RES 1R 1% 0,1W 200ppm 0603 SMT	01-1199-2	Yageo	RC0603FR-131RL	ASJ (F)# CR16-1R00-FL YAGEO (F)# RC0603FR-071RL YAGEO (F)# RC0603FR-131RL	1	1	1	1	1	1	1	1
R105	RES 12k 1% 0.063W 100ppm 0402	RES 12K 1% 0,063W 100ppm 0402 SMT	01-2653	Yageo	RC0402FR-0712KL	VISHAY (F)# CRCW040212K0FKED YAGEO (F)# RC0402FR-0712KL	1	1	1	1	1	1	1	1
R106	RES 12k 1% 0.063W 100ppm 0402	RES 12K 1% 0,063W 100ppm 0402 SMT	01-2653	Yageo	RC0402FR-0712KL	VISHAY (F)# CRCW040212K0FKED YAGEO (F)# RC0402FR-0712KL	0	0	0	0	0	0	0	0
R107	RES 3k9 1% 0.063W 100ppm 0402	RES 3,9K 1% 0,063W 100ppm 0402 SMT	01-4218	Yageo	RC0402FR-073K9L	VISHAY (F)# CRCW0402 3K90 FKED YAGEO (F)# RC0402FR-073K9L	1	1	1	1	1	1	1	1
R108	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	1	0	0
Battery management														
C200	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1

C201	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
C202	CAPE 220mF 20% 5V5 1000h@105°C RM5 THT 19x20,5 mm	CAPE 220mF -20%/+80% 5,5V RM5 THT 1000h@70°C 10,5x5,0mm	02-2247	Panasonic	EECS0HD224V	PANASONIC (F)# EECS0HD224V	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
C203	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
D200	DIO BAS40 40V 120mA SOT-23	DIO BAS40 40V 120mA uni SOT23 SMT	08-1146	NXP	BAS40	Onsemi (F)# BAS40LT1G NXP (G)# BAS40	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
D201	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
G200	Li.-Batt. CR2450 3V 560mAh THT	Li-Batt. 3V -g 560mAh -Wh 24,5x5mm THT Li-Met	05-4694-1	Renata	CR2450NRV-LF	RENATA (F)# CR2450 NRV-LF VARTA (F)# 06450 201 025 VARTA (F)# 06450 201 501	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
IC200	IC BU4925 SSOP-5 Voltage monitor	IC BU4925 -40/+105°C SSOP5 SMT Voltage Monitor	11-7207	ROHM	BU4925G-TR	ROHM (F)# BU4925G TR ROHM (F)# BU4925G-TR	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
PAD200	Battery spring 8.7x18.3x0.8mm THT	Feder Batteriekontakt 8.7x18.3x0.8mm THT	05-4684	Keystone	108-2	KEYSTONE (F)# 108-2	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Q200	T BSS84 P-Kanal 50V 130mA SOT-23	T BSS84 P-Kanal 50V 130mA SOT23 SMT	08-0275-4	NXP	BSS84	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Q201	T BSS84 P-Kanal 50V 130mA SOT-23	T BSS84 P-Kanal 50V 130mA SOT23 SMT	08-0275-4	NXP	BSS84	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
R200	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
R201	RES 1M 1% 0.063W 100ppm 0402	RES 1M 1% 0,063W 100ppm 0402 SMT	01-1927	Yageo	RC0402FR-071ML	YAGEO (F)# RC0402FR-071ML	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
R202	RES 10M 1% 0.063W 100ppm 0402	RES 10M 1% 0,063W 100ppm 0402 SMT	01-3307	Yageo	RC0402FR-0710ML	YAGEO (F)# RC0402FR-0710ML	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
R203	RES 1M 1% 0.063W 100ppm 0402	RES 1M 1% 0,063W 100ppm 0402 SMT	01-1927	Yageo	RC0402FR-071ML	YAGEO (F)# RC0402FR-071ML	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
X200	Contact spring 5x3x4mm SMD	Befestigungselement Feder 5x3x4mm SMT	05-4686	Kitagawa	OG-503040	KITAGAWA (F)# OG-503040	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Powerfail														
C300	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
C301	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
IC300	IC BU4940 SSOP-5 Voltage detector	IC BU4940G-TR -40/+105°C SSOP5 SMT CMOS Voltage Detector	11-4892	ROHM	BU4940G-TR	ROHM (F)# BU4940G-TR	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

R300	RES 100R 1% 0.063W 100ppm 0402	RES 100R 1% 0,063W 100ppm 0402 SMT	01-1906	Yageo	RC0402FR-07100RL	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL	1	1	1	1	1	1	1	1
R301	RES 2k2 1% 0.063W 100ppm 0402	RES 2,2K 1% 0,063W 100ppm 0402 SMT	01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	1	1	1	1	1	1	1	1
Reset															
C400	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1
C401	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1
IC400	IC BU4920 SSOP-5 Voltage monitor	IC BU4920 -40/+125°C SSOP5 SMT Voltage Monitor	11-7459	ROHM	BU4920G-TR	ROHM (F)# BU4920G-TR	1	1	1	1	1	1	1	1
R400	RES 100R 1% 0.063W 100ppm 0402	RES 100R 1% 0,063W 100ppm 0402 SMT	01-1906	Yageo	RC0402FR-07100RL	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL	1	1	1	1	1	1	1	1
R401	RES 2k2 1% 0.063W 100ppm 0402	RES 2,2K 1% 0,063W 100ppm 0402 SMT	01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	1	1	1	1	1	1	1	1
MCOR (Renesas)															
C1000	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1001	CAPC 15p 5% 50V NP0 0402	CAPC 15pF 5% 50V NPO 0402 SMT	02-1905	Yageo	CC0402JRNP09BN150	KEMET (F)# C0402C150J5GACTU YAGEO (F)# CC0402JRNP09BN150	1	1	1	1	1	1	1	1
C1002	CAPC 15p 5% 50V NP0 0402	CAPC 15pF 5% 50V NPO 0402 SMT	02-1905	Yageo	CC0402JRNP09BN150	KEMET (F)# C0402C150J5GACTU YAGEO (F)# CC0402JRNP09BN150	1	1	1	1	1	1	1	1
C1003	CAPC 33p 5% 50V NP0 0402	CAPC 33pF 5% 50V NPO 0402 SMT	02-2308	Yageo	CC0402JRNP09BN330	YAGEO (F)# CC0402JRNP09BN330	1	1	1	1	1	1	1	1
C1004	CAPC 33p 5% 50V NP0 0402	CAPC 33pF 5% 50V NPO 0402 SMT	02-2308	Yageo	CC0402JRNP09BN330	YAGEO (F)# CC0402JRNP09BN330	1	1	1	1	1	1	1	1
C1005	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1006	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1
C1007	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1
IC1000	IC M38D29 LQFP-64 Controller	IC M38D29GFHP -20/+85°C LQFP64 SMT 8Bit Mikrocomputer 17.2221 / LTBIL	11-7111	Renesas	M38D29GFHP	Renesas (A)# M38D29GFHP Renesas (A)# M38D29GFHP#U0 T+R	1	1	1	1	1	1	1	1
IC1001	IC M24256 SO-8 E2Prom	IC M24256BRMN6TG -40/+85°C SO8 SMT EEPROM	10-2588	ST	M24256-BRMN6TP	ST (F)# M24256-BRMN6TP	1	1	1	1	1	1	1	1
IC1002	IC M24512 SO-8 E2Prom	IC M24512-R -40/+85°C EEPROM SO8 SMT	10-2597	ST	M24512-RMN6TG	ST (F)# M24512-RMN6TG ST (F)# M24512-RMN6TP	1	1	1	1	1	1	1	1
IC1003	IC M24512 SO-8 E2Prom	IC M24512-R -40/+85°C EEPROM SO8 SMT	10-2597	ST	M24512-RMN6TG	ST (F)# M24512-RMN6TG ST (F)# M24512-RMN6TP	1	1	1	1	1	1	1	1
Q1000	T BSS84 P-Kanal 50V 130mA SOT-23	T BSS84 P-Kanal 50V 130mA SOT23 SMT	08-0275-4	NXP	BSS84	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	1	1	1	1	1	1	1	1

Q1001	CRYS 32.768kHz 12p5 20ppm@25°C 7x1.5x1.4mm SMD	CRYS 32,768kHz 12,5pF -ppm 7x1,5x1,4mm SMT 20ppm@25°C -40/+85°C	09-2025	Seiko	SSP-T7-F 20ppm 12.5pF	SEIKO (F)# SSP-T7-F SEIKO (F)# SSP-T7-F#20ppm,12,5pF	1	1	1	1	1	1	1	1
Q1002	Q 8.000MHz fundam. 16p 30ppm@25°C HC49USSM 50ppm@-40/+85°C	CRYS 8MHz 16pf 50ppm 13x4,8x4,5mm SMT 30ppm@25°C -40/+85°C	09-1954	Auris	Hi Becky,	AURIS (F)# Q- 8,000000M- HC49USSMD-F-30-50-E-16-TR AURIS (F)# Q-8.000000M HC49USSMD- F-30-50-E-16-TR AURIS (F)# Q-8.000000M-HC49USSMD F-30-50-E-16-TR	1	1	1	1	1	1	1	1
R1000	RES 10M 1% 0.063W 100ppm 0402	RES 10M 1% 0,063W 100ppm 0402 SMT	01-3307	Yageo	RC0402FR-0710ML	YAGEO (F)# RC0402FR-0710ML	1	1	1	1	1	1	1	1
R1001	RES 100k 1% 0.063W 100ppm 0402	RES 100K 1% 0,063W 100ppm 0402 SMT	01-1905	Yageo	RC0402FR-07100KL	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL	1	1	1	1	1	1	1	1
R1002	RES 2k2 1% 0.063W 100ppm 0402	RES 2,2K 1% 0,063W 100ppm 0402 SMT	01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	1	1	1	1	1	1	1	1
R1003	RES 1M 1% 0.063W 100ppm 0402	RES 1M 1% 0,063W 100ppm 0402 SMT	01-1927	Yageo	RC0402FR-071ML	YAGEO (F)# RC0402FR-071ML	1	1	1	1	1	1	1	1
R1004	RES 5k1 1% 0,063W 100ppm 0402	RES 5,1K 1% 0,063W 100ppm 0402 SMT	01-4212	Yageo	RC0402FR-075K1L	VISHAY (F)# CRCW04025K10FKED YAGEO (F)# RC0402FR-075K1L	1	1	1	1	1	1	1	1
R1005	RES 2k2 1% 0.063W 100ppm 0402	RES 2,2K 1% 0,063W 100ppm 0402 SMT	01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	1	1	1	1	1	1	1	1
R1006	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
SV1000	SL 2x7p 180° 1.27 mm pitch SMD	SL 2x7p 180° 1,27mm pitch SMT	03-4560	Samtec	FTS-107-01-L-DV-K-P-TR	SAMTEC (F)# FTSH-107-01-L-DV-K-P- TR	1	0	0	0	0	0	0	0
Measuring															
B1100	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	1
B1101	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	1
C1100	CAPC 47µ 20% 50V 8000h@105°C SMD-F 19x20.5 mm	CAPE 47µF 20% 50V 8000h@105°C SMD-F SMT 19x20.5mm	02-1943	Nippon Chemi	EMLE500ADA470MHA0G	NIPPON CHEMI (F)# 122402554208 NIPPON CHEMI (F)#	1	1	1	1	1	1	1	1
C1101	CAPC 100 50V	CAPC 100nF 10% 50V X7R 0603 SMT	02-6172	Murata	GRM155R71C104KA88D	KEMET (F)# C0603C104K5RAC7867 Samsung (F)# CL10B104KB8NNNC Samsung (F)# CL10B104KB8NNNL YAGEO (F)# CC0603KRX7R9BB104 TDK (F)# C1608X7RH104K080AA	1	1	1	1	1	1	1	1
C1102	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1103	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1

C1104	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1105	CAPC 22n 10% 50V X7R 0402	CAPC 22nF 10% 50V X7R 0402 SMT	02-4745	Murata	GRM155R71H223KA12D	KEMET (F)# C0402C223K5RACTU Murata (F)# GRM155R71H223KA12D	1	1	1	1	1	1	1	1
C1106	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1107	CAPC 10n 5% 50V NP0 0805	CAPC 10nF 5% 50V NPO 0805 SMT	02-0371-1	Murata	GRM2195C1H103JA01D	Murata (F)# GRM 2195 C1H 103 JA01D	1	1	1	1	1	1	1	1
C1108	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1109	CAPC 22n 5% 1kV X7R 1206			KEMET	C1206C223JDRACTU		1	1	1	1	1	1	1	1
C1110	CAPC 22n 5% 1kV X7R 1206			KEMET	C1206C223JDRACTU		1	1	1	1	1	1	1	1
D1100	DIOZ BZX84C4V7 4V7 5mA SOT-23	DIOZ BZX84-C4V7 4,7V 5mA SOT23 SMT	08-0967	NXP	BZX84-C4V7	PHILIPS (V)# BZX84-C4V7 NXP (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7 215	1	1	1	1	1	1	1	1
IC1100	IC STPMS2 QFN-16 Sensor	STPMS2 QFN16 AD 3.2-5.5V 1Bit 4MHz -40/+85°C	11-0767	ST	STPMS2L-PUR	ST (F)# STPMS2L-PUR	1	1	1	1	1	1	1	1
IC1101	IC BU4832 SSOP-5 Voltage monitor	IC BU4832 -40/+125°C SSOP5 SMT Voltage Monitor	11-8919	ROHM	BU4832G-TR	ROHM (F)# BU4832G-TR ROHM (F)# BU4832GTR	1	1	1	1	1	1	1	1
IC1102	IC 74AHC1G04 SOT353-5 Inverter	IC 74AHC1G04GW -40/+125°C SOT353-5 SMT Inverter	06-1663	NXP	74AHC1G04GW	PHILIPS (A)# 74AHC1G04GW NXP (F)# 74AHC1G04GW NXP (F)# 74AHC1G04GW,125	1	0	0	0	1	1	0	1
R1100	RES 60R4 1% 0.25W 50ppm M-M	RES 60R4 1% 0,25W 50ppm Minimelf SMT		Vishay	MMA02040C6049FB300		0	0	0	0	1	1	0	1
R1101	RESV 460V 8kA Z RM10 THT	RESV 460V 8kA RM10 THT	01-0020-1	TDK	B72220S0461K502	EPCOS (V)# B72220S0461K101 EPCOS (V)# SIOV-S20K460 TDK (F)# B72220S0461K101	1	1	1	1	1	1	1	1
R1102a	RES 5k6 1% 0.063W 100ppm 1206	RES 5,6K 1% 0,25W 100ppm 1206 SMT	01-1985	Vishay	CRCW12065K60FKTABC	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)#	1	1	0	1	0	1	1	1
R1102b	RES 1k0 1% 0.25W 50ppm M-M	RES 1K 1% 0,25W 50ppm Minimelf SMT	01-1124	Vishay	MMA0204-50 1k0	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VISHAY (F)# SMM02040C1001FB300 KOA (G)# Minimelf VITROHM (F)# ZC 0204 FKE 07 1k0	0	0	1	0	1	0	0	0
R1103	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1104	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1105	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1

R1106	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1107	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0
R1108	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1
R1109	RES 464R 1% 0.25W 50ppm MiniMELF	RES 464R 1% 0,25W 50ppm Minimelf SMT		Vishay	SMM02040C4640FB300		1	1	1	1	1	1	1	1
R1110	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	1	1	1	1	0	0	1	0
R1111a	RES 5k6 1% 0.063W 100ppm 1206	RES 5,6K 1% 0,25W 100ppm 1206 SMT	01-1985	Vishay	CRCW12065K60FKTABC	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1%	1	1	0	1	0	1	1	1
R1111b	RES 1k0 1% 0.25W 50ppm M-M	RES 1K 1% 0,25W 50ppm Minimelf SMT	01-1124	Vishay	MMA0204-50 1k0	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VISHAY (F)# SMM02040C1001FB300 KOA (G)# Minimelf VITROHM (F)# ZC 0204 FKE 07 1k0	0	0	1	0	1	0	0	0
R1112	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL	1	1	1	1	1	1	1	1
R1113	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL	1	1	1	1	1	1	1	1
R1114	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL	1	1	1	1	1	1	1	1
R1115	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	1	1	0	1
R1116	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	1	1	1	1	0	0	1	0
R1117	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0
R1118	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	1	1	0	1
R1119	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	1	1	0	1
R1120	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0
R1121	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0
TR1100a	Trafo EI-30_230V		04-3102-abc	Hahn	V18274	Hahn (F)# V18274	1	1	0	1	0	1	1	1
TR1100b	Trafo EI-30_127V		04-3400-abc	Hahn	V19048		0	0	0	0	0	0	0	0
TR1100c	Trafo EI-30_ 58V		04-3401-abc	Hahn	V18552		0	0	0	0	0	0	0	0
TR1100d	Trafo EI-30_133 - 230V		04-5500-abc	Hahn	V21246	Hahn (F)# V21246	0	0	1	0	1	0	0	0

TR1101	COIL 110H 30% 115R 6A THT	COIL 110H 30% 115R 6A 24.5x12.3x28.8mm THT	04-3049	VAC	T60404-E4622-X50182	VAC (F)# T60404-E4622-X50182	0	0	0	0	1	1	0	1
V1100	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	1	1	1	1	1	1	1
X1100	KL 1p 90° RM3.5 THT	KL 1p 90° RM3.5 THT	05-3333	Riacon	718408-0156	RIACON (F)# 360410 ohne Drahtschutz	1	1	1	1	1	1	1	1
X1101	Spring	Befestigungselement Feder 5x3x4mm SMT	05-4686	Kitagawa	OG-503040	KITAGAWA (F)# OG-503040	1	1	1	1	1	1	1	1
Measuring														
B1200	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	1
B1201	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	1
C1200	CAPC 47µ 20% 50V 8000h@105°C SMD-F 19x20.5 mm	CAPE 47µF 20% 50V 8000h@105°C SMD-F SMT 19x20.5mm	02-1943	Nippon Chemi	EMLE500ADA470MHA0G	NIPPON CHEMI (F)# 122402554208 NIPPON CHEMI (F)#	1	1	1	1	1	1	1	1
C1201	CAPC 100n 10% 50V	CAPC 100nF 10% 50V X7R 0603 SMT	02-6172	Murata	GRM155R71C104KA88D	KEMET (F)# C0603C104K5RAC7867 Samsung (F)# CL10B104KB8NNNC Samsung (F)# CL10B104KB8NNNL YAGEO (F)# CC0603KRX7R9BB104 TDK (F)# C1608X7R1H104K080AA	1	1	1	1	1	1	1	1
C1202	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1203	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1204	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1205	CAPC 22n 10% 50V X7R 0402	CAPC 22nF 10% 50V X7R 0402 SMT	02-4745	Murata	GRM155R71H223KA12D	KEMET (F)# C0402C223K5RACTU Murata (F)# GRM155R71H223KA12D	1	1	1	1	1	1	1	1
C1206	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1207	CAPC 10n 5% 50V NP0 0805	CAPC 10nF 5% 50V NPO 0805 SMT	02-0371-1	Murata	GRM2195C1H103JA01D	Murata (F)# GRM 2195 C1H 103 JA01D	1	1	1	1	1	1	1	1
C1208	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1209	CAPC 22n 5% 1kV X7R 1206			KEMET	C1206C223JDRACTU		1	1	1	1	1	1	1	1
C1210	CAPC 22n 5% 1kV X7R 1206			KEMET	C1206C223JDRACTU		1	1	1	1	1	1	1	1
D1200	DIOZ BZX84C4V7 4V7 5mA SOT-23	DIOZ BZX84-C4V7 4,7V 5mA SOT23 SMT	08-0967	NXP	BZX84-C4V7	PHILIPS (V)# BZX84-C4V7 NXP (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7,215	1	1	1	1	1	1	1	1
IC1200	IC STPMS2 QFN-16 Sensor	STPMS2 QFN16 AD 3.2-5.5V 1Bit 4MHz -40/+85°C	88-0605	ST	STPMS2L-PUR	ST (F)# STPMS2L-PUR	1	1	1	1	1	1	1	1
IC1201	IC BU4832 SSOP-5 Voltage monitor	IC BU4832 -40/+125°C SSOP5 SMT Voltage Monitor	11-8919	ROHM	BU4832G-TR	ROHM (F)# BU4832G-TR ROHM (F)# BU4832GTR	1	1	1	1	1	1	1	1

IC1202	IC 74AHC1G04 SOT353-5 Inverter	IC 74AHC1G04GW -40/+125°C SOT353-5 SMT Inverter	06-1663	NXP	74AHC1G04GW	PHILIPS (A)# 74AHC1G04GW NXP (F)# 74AHC1G04GW NXP (F)# 74AHC1G04GW.125	1	0	0	0	1	1	0	1
R1200	RES 60R4 1% 0.25W 50ppm M-M	RES 60R4 1% 0,25W 50ppm Minimelf SMT		Vishay	MMA02040C6049FB300		0	0	0	0	1	1	0	1
R1201	RESV 460V 8kA Z RM10 THT	RESV 460V 8kA RM10 THT	01-0020-1	TDK	B72220S0461K502	EPCOS (V)# B72220S0461K101 EPCOS (V)# SIOV-S20K460 TDK (F)# B72220S0461K101	1	1	1	1	1	1	1	1
R1202a	RES 5k6 1% 0.063W 100ppm 1206	RES 5,6K 1% 0,25W 100ppm 1206 SMT	01-1985	Vishay	CRCW12065K60FKTABC	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)#	1	1	0	1	0	1	1	1
R1202b	RES 1k0 1% 0.25W 50ppm M-M	RES 1K 1% 0,25W 50ppm Minimelf SMT	01-1124	Vishay	MMA0204-50 1k0	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VISHAY (F)# SMM02040C1001FB300 KOA (G)# Minimelf VITROHM (F)# ZC 0204 FKE 07 1k0	0	0	1	0	1	0	0	0
R1203	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1204	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1205	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1206	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1207	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
R1208	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	1	1	1
R1209	RES 464R 1% 0.25W 50ppm MiniMELF	RES 464R 1% 0,25W 50ppm Minimelf SMT		Vishay	SMM02040C4640FB300		1	1	1	1	1	1	1	1
R1210	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	0	0	1	0
R1211a	RES 5k6 1% 0.063W 100ppm 1206	RES 5,6K 1% 0,25W 100ppm 1206 SMT	01-1985	Vishay	CRCW12065K60FKTABC	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)#	1	1	0	1	0	0	1	1

R1211b	RES 1k0 1% 0.25W 50ppm M-M	RES 1K 1% 0,25W 50ppm Minimelf SMT	01-1124	Vishay	MMA0204-50 1k0	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VISHAY (F)# SMM02040C1001FB300 KOA (G)# Minimelf VITROHM (F)# ZC 0204 FKE 07 1k0	0	0	1	0	1	1	0	0
R1212	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
R1213	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
R1214	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
R1215	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	1	1	0	1
R1216	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	0	0	1	0
R1217	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
R1218	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	1	1	0	1
R1219	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	1	1	0	1
R1220	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
R1221	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
TR1200a	Trafo EI-30 230V		04-3102-abc	Hahn	V18274	Hahn (F)# V18274	1	1	0	1	0	1	1	1
TR1200b	Trafo EI-30 127V		04-3400-abc	Hahn	V19048		0	0	0	0	0	0	0	0
TR1200c	Trafo EI-30 58V		04-3401-abc	Hahn	V18552		0	0	0	0	0	0	0	0
TR1200d	Trafo EI-30 133 - 230V		04-5500-abc	Hahn	V21246	Hahn (F)# V21246	0	0	1	0	1	0	0	0
TR1201	COIL 110H 30% 115R 6A THT	COIL 110H 30% 115R 6A 24,5x12,3x28,8mm THT	04-3049	VAC	T60404-E4622-X50182	VAC (F)# T60404-E4622-X50182	0	0	0	0	1	1	0	1
V1200	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	1	1	1	1	1	1	1
X1200	KL 1p 90° RM3.5 THT	KL 1p 90° RM3.5 THT	05-3333	Riacon	718408-0156	RIACON (F)# 360410 ohne Drahtschutz	1	1	1	1	1	1	1	1
X1201	Spring	Befestigungselement Feder 5x3x4mm SMT	05-4686	Kitagawa	OG-503040	KITAGAWA (F)# OG-503040	1	1	1	1	1	1	1	1
Measuring															

B1300	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	1
B1301	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	1
C1300	CAPC 47µ 20% 50V 8000h@105°C SMD-E 19x20.5 mm	CAPE 47µF 20% 50V 8000h@105°C SMD-E SMT 19x20.5mm	02-1943	Nippon Chemi	EMLE500ADA470MHA0G	NIPPON CHEMI (F)# 122402554208 NIPPON CHEMI (F)#	1	1	1	1	1	1	1	1
C1301	CAPC 100n 1 50V	CAPC 100nF 10% 50V X7R 0603 SMT	02-6172	Murata	GRM155R71C104KA88D	KEMET (F)# C0603C104K5RAC7867 Samsung (F)# CL10B104KB8NNNC Samsung (F)# CL10B104KB8NNNL YAGEO (F)# CC0603KRX7R9BB104 TDK (F)# C1608X7R1H104K080AA	1	1	1	1	1	1	1	1
C1302	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1303	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1304	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1305	CAPC 22n 10% 50V X7R 0402	CAPC 22nF 10% 50V X7R 0402 SMT	02-4745	Murata	GRM155R71H223KA12D	KEMET (F)# C0402C223K5RACTU Murata (F)# GRM155R71H223KA12D	1	1	1	1	1	1	1	1
C1306	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1307	CAPC 10n 5% 50V NP0 0805	CAPC 10nF 5% 50V NPO 0805 SMT	02-0371-1	Murata	GRM2195C1H103JA01D	Murata (F)# GRM 2195 C1H 103 JA01D	1	1	1	1	1	1	1	1
C1308	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1309	CAPC 22n 5% 1kV X7R 1206			KEMET	C1206C223JDRACTU		1	1	1	1	1	1	1	1
C1310	CAPC 22n 5% 1kV X7R 1206			KEMET	C1206C223JDRACTU		1	1	1	1	1	1	1	1
D1300	DIOZ BZX84C4V7 4V7 5mA SOT-23	DIOZ BZX84-C4V7 4,7V 5mA SOT23 SMT	08-0967	NXP	BZX84-C4V7	PHILIPS (V)# BZX84-C4V7 NXP (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7,215	1	1	1	1	1	1	1	1
IC1300	IC STPMS2 QFN-16 Sensor	STPMS2 QFN16 AD 3.2-5.5V 1Bit 4MHz -40/+85°C	88-0605	ST	STPMS2L-PUR	ST (F)# STPMS2L-PUR	1	1	1	1	1	1	1	1
IC1301	IC BU4832 SSOP-5 Voltage monitor	IC BU4832 -40/+125°C SSOP5 SMT Voltage Monitor	11-8919	ROHM	BU4832G-TR	ROHM (F)# BU4832G-TR ROHM (F)# BU4832GTR	1	1	1	1	1	1	1	1
IC1302	IC 74AHC1G04 SOT353-5 Inverter	IC 74AHC1G04GW -40/+125°C SOT353-5 SMT Inverter	06-1663	NXP	74AHC1G04GW	PHILIPS (A)# 74AHC1G04GW NXP (F)# 74AHC1G04GW NXP (F)# 74AHC1G04GW,125	1	0	0	0	1	1	0	1
R1300	RES 60R4 1% 0.25W 50ppm M-M	RES 60R4 1% 0,25W 50ppm MinimelF SMT		Vishay	MMA02040C6049FB300		0	0	0	0	1	1	0	1
R1301	RESV 460V 8kA Z RM10 THT	RESV 460V 8kA RM10 THT	01-0020-1	TDK	B72220S0461K502	EPCOS (V)# B72220S0461K101 EPCOS (V)# SIOV-S20K460 TDK (F)# B72220S0461K101	1	1	1	1	1	1	1	1
R1302a	RES 5k6 1% 0.063W 100ppm 1206	RES 5,6K 1% 0,25W 100ppm 1206 SMT	01-1985	Vishay	CRCW12065K60FKTABC	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)#	1	1	0	1	0	1	1	1

R1302b	RES 1k0 1% 0.25W 50ppm M-M	RES 1K 1% 0,25W 50ppm Minimelf SMT	01-1124	Vishay	MMA0204-50 1k0	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VISHAY (F)# SMM02040C1001FB300 KOA (G)# Minimelf VITROHM (F)# ZC 0204 FKE 07 1k0	0	0	1	0	1	0	0	0
R1303	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1304	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1305	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1306	RES 150k 1% 0.25W 50ppm M-M	RES 150K 1% 0,25W 50ppm Minimelf SMT	01-1132	Vishay	SMM020450 150k 1%B3	VISHAY (F)# SMM0204 50 150K 1%B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000	1	1	1	1	1	1	1	1
R1307	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
R1308	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	1	1	1
R1309	RES 464R 1% 0.25W 50ppm MiniMELF	RES 464R 1% 0,25W 50ppm Minimelf SMT		Vishay	SMM02040C4640FB300		1	1	1	1	1	1	1	1
R1310	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	0	0	1	0
R1311a	RES 5k6 1% 0.063W 100ppm 1206	RES 5,6K 1% 0,25W 100ppm 1206 SMT	01-1985	Vishay	CRCW12065K60FKTABC	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)#	1	1	0	1	0	1	1	1
R1311b	RES 1k0 1% 0.25W 50ppm M-M	RES 1K 1% 0,25W 50ppm Minimelf SMT	01-1124	Vishay	MMA0204-50 1k0	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VISHAY (F)# SMM02040C1001FB300 KOA (G)# Minimelf VITROHM (F)# ZC 0204 FKE 07 1k0	0	0	1	0	1	0	0	0
R1312	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
R1313	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
R1314	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1

R1315	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	1	1	0	1
R1316	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	0	0	1	0
R1317	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
R1318	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	1	1	0	1
R1319	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	1	1	0	1
R1320	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
R1321	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
TR1300a	Trafo EI-30_230V		04-3102-abc	Hahn	V18274	Hahn (F)# V18274	1	1	0	1	0	1	1	1
TR1300b	Trafo EI-30_127V		04-3400-abc	Hahn	V19048		0	0	0	0	0	0	0	0
TR1300c	Trafo EI-30_58V		04-3401-abc	Hahn	V18552		0	0	0	0	0	0	0	0
TR1300d	Trafo EI-30_133 - 230V		04-5500-abc	Hahn	V21246	Hahn (F)# V21246	0	0	1	0	1	0	0	0
TR1301	COIL 110H 30% 115R 6A THT	COIL 110H 30% 115R 6A 24.5x12.3x28.8mm THT	04-3049	VAC	T60404-E4622-X50182	VAC (F)# T60404-E4622-X50182	0	0	0	0	1	1	0	1
V1300	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	1	1	1	1	1	1	1
X1300	KL 1p 90° RM3.5 THT	KL 1p 90° RM3.5 THT	05-3333	Riacon	718408-0156	RIACON (F)# 360410 ohne Drahtschutz	1	1	1	1	1	1	1	1
X1301	Spring	Befestigungselement Feder 5x3x4mm SMT	05-4686	Kitagawa	OG-503040	KITAGAWA (F)# OG-503040	1	1	1	1	1	1	1	1
Calculator and Isolation															
C1500	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-1902	Yageo	CC0603KRX7R9BB104	Murata (F)# GRM188R71H104KA93D YAGEO (F)# CC0603KPX7R9BB104 YAGEO (F)# CC0603KRX7R9BB104	1	1	1	1	1	1	1	1
C1501	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-1902	Yageo	CC0603KRX7R9BB104	Murata (F)# GRM188R71H104KA93D YAGEO (F)# CC0603KPX7R9BB104 YAGEO (F)# CC0603KRX7R9BB104	1	1	1	1	1	1	1	1
C1502	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-1902	Yageo	CC0603KRX7R9BB104	Murata (F)# GRM188R71H104KA93D YAGEO (F)# CC0603KPX7R9BB104 YAGEO (F)# CC0603KRX7R9BB104	1	1	1	1	1	1	1	1
C1503	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-1902	Yageo	CC0603KRX7R9BB104	Murata (F)# GRM188R71H104KA93D YAGEO (F)# CC0603KPX7R9BB104 YAGEO (F)# CC0603KRX7R9BB104	1	1	1	1	1	1	1	1
C1504	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C1505	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1
C1506	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-1902	Yageo	CC0603KRX7R9BB104	Murata (F)# GRM188R71H104KA93D YAGEO (F)# CC0603KPX7R9BB104 YAGEO (F)# CC0603KRX7R9BB104	1	1	1	1	1	1	1	1

C1507	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-1902	Yageo	CC0603KRX7R9BB104	Murata (F)# GRM188R71H104KA93D YAGEO (F)# CC0603KPX7R9BB104 YAGEO (F)# CC0603KRX7R9BB104	1	1	1	1	1	1	1	1
C1508	CAPC 1n 10% 250V X7R 2211	CAPC 1nF 10% 250V X7R 2211 SMT	02-4703	Murata	GA352QR7GF102KW01L	Murata (F)# GA352QR7GF102KW01L	1	0	0	0	0	0	0	0
C1509	CAPC 1n 10% 250V X7R 2211	CAPC 1nF 10% 250V X7R 2211 SMT	02-4703	Murata	GA352QR7GF102KW01L	Murata (F)# GA352QR7GF102KW01L	1	0	0	0	0	0	0	0
C1510	CAPC 1n 10% 250V X7R 2211	CAPC 1nF 10% 250V X7R 2211 SMT	02-4703	Murata	GA352QR7GF102KW01L	Murata (F)# GA352QR7GF102KW01L	1	0	0	0	0	0	0	0
C1511	CAPC 1n 10% 250V X7R 2211	CAPC 1nF 10% 250V X7R 2211 SMT	02-4703	Murata	GA352QR7GF102KW01L	Murata (F)# GA352QR7GF102KW01L	1	0	0	0	0	0	0	0
C1512	CAPC 1n 10% 250V X7R 2211	CAPC 1nF 10% 250V X7R 2211 SMT	02-4703	Murata	GA352QR7GF102KW01L	Murata (F)# GA352QR7GF102KW01L	1	0	0	0	0	0	0	0
C1513	CAPC 1n 10% 250V X7R 2211	CAPC 1nF 10% 250V X7R 2211 SMT	02-4703	Murata	GA352QR7GF102KW01L	Murata (F)# GA352QR7GF102KW01L	1	0	0	0	0	0	0	0
IC1500	IC STPMC1 TSSOP-20 Energy calculator	IC STPMC1 -40/+85°C TSSOP20 SMT Strom-Leistungsregler	11-7910	ST	STPMC1BTR	ST (F)# STPMC1BTR	1	1	1	1	1	1	1	1
OK1500	IC SI8622BD SO-16 Digital Isolator		07-6967	Silicon	SI8622BD-B-IS		1	1	1	1	1	1	0	0
	IC SI8622BT-IS SO-16 Digital		07-7028	Silicon	SI8622BT-IS		0	0	0	0	0	0	1	1
OK1501	IC SI8622BD SO-16 Digital Isolator		07-6967	Silicon	SI8622BD-B-IS		1	1	1	1	1	1	0	0
	IC SI8622BT-IS SO-16 Digital		07-7028	Silicon	SI8622BT-IS		0	0	0	0	0	0	1	1
OK1502	IC SI8622BD SO-16 Digital Isolator		07-6967	Silicon	SI8622BD-B-IS		1	1	1	1	1	1	0	0
	IC SI8622BT-IS SO-16 Digital		07-7028	Silicon	SI8622BT-IS		0	0	0	0	0	0	1	1
R1500	RES 100R 1% 0.063W 100ppm 0402	RES 100R 1% 0,063W 100ppm 0402 SMT	01-1906	Yageo	RC0402FR-07100RL	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL	1	1	1	1	1	1	1	1
R1501	RES 100R 1% 0.063W 100ppm 0402	RES 100R 1% 0,063W 100ppm 0402 SMT	01-1906	Yageo	RC0402FR-07100RL	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL	1	1	1	1	1	1	1	1
R1502	RES 100R 1% 0.063W 100ppm 0402	RES 100R 1% 0,063W 100ppm 0402 SMT	01-1906	Yageo	RC0402FR-07100RL	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL	1	1	1	1	1	1	1	1
R1503	RES 100R 1% 0.063W 100ppm 0402	RES 100R 1% 0,063W 100ppm 0402 SMT	01-1906	Yageo	RC0402FR-07100RL	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL	1	1	1	1	1	1	1	1
R1504	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	1	1	1	1	1	1	1
R1505	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	1	1	1	1	1	1	1
R1506	RES 0R 1% 0.1W 100ppm 0603	RES 0R -% 0,1W xppm 0603 SMT	01-9752	Yageo	RC0603FR-	PANASONIC (F)# ERJ-3GEY0R00V		1	1	1	1	1	1	1
R1507								0	0	0	0	0	0	0
V1500	DIO BAS40-04 40V 200mA SOT-23	DIO BAS40-04 40V 200mA uni SOT23 SMT	08-1274	Vishay	BAS40-04-V-GS08	VISHAY (F)# BAS40-04 VISHAY (F)# BAS40-04-E3-08 VISHAY (F)# BAS40-04-V VISHAY (F)# BAS40-04-V-GS08	1	0	0	0	0	0	0	0
LCD-Display															
C1600	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-2451	Yageo	CC0805KKX7R8BB105	Murata (F)# GRM21BR71E105KA99L YAGEO (F)# CC0805KKX7R8BB105 TDK (F)# C2012X7R1E105K	1	1	1	1	1	1	1	1
C1601	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1

C1602	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1
C1603	CAPC 100n 10% 10V X7R 0603	CAPC 100nF 10% 10V X7R 0603 SMT	02-3746	Holystone	C0603X104K010TX	Holystone (F)# C0603X104K010TX	1	0	1	1	1	1	1	1
C1604	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0
D1600	DIOZ BZV55C3V9 3V9 250mA M-M	DIOZ BZV55C3V9 3,9V 250mA Minimelf SMT	08-0575	NXP	BZV55-C3V9	PHILIPS (V)# BZV55C3V9 VISHAY (F)# TZMC3V9-GS08 NXP (F)# BZV55-C3V9 NXP (F)# BZV55C3V9	1	1	1	1	1	1	1	1
L1600	COIL 100µH 10% 4R6 100mA 3,2x2,5x2,2 mm SMD	COIL 100µH 10% 4,6R 100mA 3,2x2,5x2,2mm SMT	04-1300	Wuerth eisos	744032101	WÜRTH eisos (F)# 744032101C	1	1	1	1	1	1	1	1
LCD1600	LCD-Display 65x39x27.5mm THT	LCD-Display CTM10061-E - 1mA 65x39x27.5mm THT	05-9268-4	Shantou Gowo	CTM10061-E	Shantou Gowo (F)# CTM10061-E Shantou Gowo (F)# GWMS10061-	1	1	1	1	1	1	1	1
	LCD Mount		25-1986-abc	Jasz	LK6067		1	1	1	1	1	1	1	1
	Diffusor Foil		25-1987-abc	Shantou Gowo	GWMS10061-DISPERSION FOIL/D Rev:03 YHBL16135X0N0A		1	1	1	1	1	1	1	1
	Assembly-Display LK0108		21-1106	Shantou Gowo			0	0	0	0	0	0	0	0
LED1600	LED white 3x1.4x0.7mm SMD	LED GW JCLMS1.EC-GTHP 1-fach 3x1,4x0,7mm SMT weiss -nm	08-8136	Osram	Q65111A7112	OSRAM (F)# GW JCLMS1.EC-GTHP-5H7I-L1N2 OSRAM (F)# Q65111A7112	1	0	1	1	1	1	1	1
LED1601	LED white 3x1.4x0.7mm SMD	LED GW JCLMS1.EC-GTHP 1-fach 3x1,4x0,7mm SMT weiss -nm	08-8136	Osram	Q65111A7112	OSRAM (F)# GW JCLMS1.EC-GTHP-5H7I-L1N2 OSRAM (F)# Q65111A7112	1	0	1	1	1	1	1	1
LED1602	LED white 3x1.4x0.7mm SMD	LED GW JCLMS1.EC-GTHP 1-fach 3x1,4x0,7mm SMT weiss -nm	08-8136	Osram	Q65111A7112	OSRAM (F)# GW JCLMS1.EC-GTHP-5H7I-L1N2 OSRAM (F)# Q65111A7112	1	0	1	1	1	1	1	1
Q1600	T BSS123 N-Kanal 100V 170mA SOT-23	T BSS123 N-Kanal 100V 170mA SOT23 SMT	08-0503	NXP	BSS123 T/R	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215	1	0	1	1	1	1	1	1
R1600	RES 2k7 1% 0.063W 100ppm 0402	RES 2,7K 1% 0,063W 100ppm 0402 SMT	01-3627	Yageo	RC0402FR-072K7L	KOA (F)# RK73H1ETTP2701F YAGEO (F)# RC0402FR-072K7L	1	1	1	1	1	1	1	1
R1601	RES 220R 1% 0.1W 100ppm 0603	RES 220R 1% 0,1W 100ppm 0603 SMT	01-0820	Yageo	RC0603FR-07220RL	VISHAY (F)# CRCW0603 220R F K TA YAGEO (F)# RC0603FR-07220RL	1	0	1	1	1	1	1	1
R1602	RES 220R 1% 0.1W 100ppm 0603	RES 220R 1% 0,1W 100ppm 0603 SMT	01-0820	Yageo	RC0603FR-07220RL	VISHAY (F)# CRCW0603 220R F K TA YAGEO (F)# RC0603FR-07220RL	1	0	1	1	1	1	1	1
R1603	RES 220R 1% 0.1W 100ppm 0603	RES 220R 1% 0,1W 100ppm 0603 SMT	01-0820	Yageo	RC0603FR-07220RL	VISHAY (F)# CRCW0603 220R F K TA YAGEO (F)# RC0603FR-07220RL	1	0	1	1	1	1	1	1
R1604	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	0	0	0	0	0	0	0
Tamper															
C1700	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	1	1	1	1	1	1
C1720	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	1	1	1	1	1	1
C1740	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	1	1	1	1	1	1	1

IC1700	IC AH180 SOT-23 Hall sensor	Hall-Sensor AH180-WG-7 -40/+85 SOT23 SMT	11-7114	Diodes	AH180-WG-7	DIODES (F)# AH180-WG-7	1	0	1	1	1	1	1	1
R1700	RES 100k 1% 0.063W 100ppm 0402	RES 100K 1% 0,063W 100ppm 0402 SMT	01-1905	Yageo	RC0402FR-07100KL	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL	1	1	1	1	1	1	1	1
S1720	Pushbutton 180° 2.54mm pitch	Taster 1-fach 180° 2.54mm pitch SMT	05-3455	C&K	KSC401G50SH LFS	ITT (V)# KSC401G 50SH LFS C&K (F)# KSC401G50SH LFS	1	0	1	1	1	1	1	1
S1750	Pushbutton 180° 2.54mm pitch	Taster 1-fach 180° 2.54mm pitch SMT	05-3455	C&K	KSC401G50SH LFS	ITT (V)# KSC401G 50SH LFS C&K (F)# KSC401G50SH LFS	1	1	1	1	1	1	1	1
Pushbuttons															
C1800	CAPC 100p 10% 50V X7R 0402	CAPC 100pF 10% 50V X7R 0402 SMT	02-4739	Holystone	C0402X101K050T	Holystone (F)# C0402X101K050T	1	1	1	1	1	1	1	1
C1801	CAPC 100p 10% 50V X7R 0402	CAPC 100pF 10% 50V X7R 0402 SMT	02-4739	Holystone	C0402X101K050T	Holystone (F)# C0402X101K050T	1	1	1	1	1	1	1	1
C1802	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	1	1	1	1	1	1	1
JP1800	SL 1x2p 180° RM2.54 THT	SL 2p 180° RM2.54 THT	03-0088	TOP	7000-1X2SG	TOP (F)# 7000-1X2SG	1	1	1	1	1	1	1	1
R1800	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1
R1801	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1
S1800	Pushbutton 180° 2.54mm pitch	Taster 1-fach 180° 2.54mm pitch SMT	05-3455	C&K	KSC401G50SH LFS	ITT (V)# KSC401G 50SH LFS C&K (F)# KSC401G50SH LFS	1	1	1	1	1	1	1	1
S1801	Pushbutton 180° 2.54mm pitch	Taster 1-fach 180° 2.54mm pitch SMT	05-3455	C&K	KSC401G50SH LFS	ITT (V)# KSC401G 50SH LFS C&K (F)# KSC401G50SH LFS	1	1	1	1	1	1	1	1
Pulsing LEDs															
C1900	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1
C1901	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	0	0	0
LED1900	LED red KPTL-3216 1206 645nm	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm	08-1485	Kingbright	KPTL-3216SURCK	Kingbright (F)# KPTL-3216SURCK APEX (F)# RY-SP350UHR24	1	1	1	1	1	1	1	1
LED1901	LED red KPTL-3216 1206 645nm	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm	08-1485	Kingbright	KPTL-3216SURCK	Kingbright (F)# KPTL-3216SURCK APEX (F)# RY-SP350UHR24	1	0	0	0	0	0	0	0
T1900	T BSS123 N-Kanal 100V 170mA SOT-23	T BSS123 N-Kanal 100V 170mA SOT23 SMT	08-0503	NXP	BSS123 T/R	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215	1	0	0	0	0	0	0	0

R1900	RES 330R 1% 0.1W 100ppm 0603	RES 330R 1% 0,1W 100ppm 0603 SMT	01-0648	Yageo	RC0603FR-10330RL	ASJ (F)# CR16-3300-FK ASJ (F)# CR16-3300-FL YAGEO (F)# RC0603FR-07330RL YAGEO (F)# RC0603FR-10330RL	1	1	1	1	1	1	1	1
R1901	RES 330R 1% 0.1W 100ppm 0603	RES 330R 1% 0,1W 100ppm 0603 SMT	01-0648	Yageo	RC0603FR-10330RL	ASJ (F)# CR16-3300-FK ASJ (F)# CR16-3300-FL YAGEO (F)# RC0603FR-07330RL YAGEO (F)# RC0603FR-10330RL	1	0	0	0	0	0	0	0
R1902	RES 1M 1% 0.063W 100ppm 0402	RES 1M 1% 0,063W 100ppm 0402 SMT	01-1927	Yageo	RC0402FR-071ML	YAGEO (F)# RC0402FR-071ML	1	0	0	0	0	0	0	0
DLMS converter															
C2000	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	1	0	0
C2001	CAPS 4µ7 10% 25V X5R 0805	CAPC 4,7µF 10% 25V X5R 0805 SMT	02-2727	Murata	GRM21BR61E475KA12K	Murata (F)# GRM21BR61E475KA12K Murata (F)# GRM21BR61E475KA12L	1	0	0	0	0	1	0	0
C2002	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	1	0	0
C2003	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	1	0	0
C2004	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	1	0	0
C2005	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	1	0	0
C2006	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	1	0	0
D2000	DIO BAS40-06 40V 120mA SOT-23	DIO BAS40-06 40V 120mA uni SOT23 SMT	08-3456	NXP	BAS40-06	Onsemi (F)# BAS40-06LT1G INFINEON (F)# BAS40-06 E6327 NXP (F)# BAS40-06 NXP (F)# BAS40-06,215 NXP (F)# BAS40-06,215	1	0	0	0	0	1	0	0
IC2000	IC STM32F101CBT6 LQFP-48 Controller	IC STM32F101CBT6TR -40/+85°C LQFP48 SMT 32Bit ARM Controller	11-0978	ST	STM32F101CBT6	ST (F)# STM32F101CBT6 ST (F)# STM32F101CBT6TR	1	0	0	0	0	1	0	0
Q2000	T BSS123 N-Kanal 100V 170mA SOT-23	T BSS123 N-Kanal 100V 170mA SOT23 SMT	08-0503	NXP	BSS123 T/R	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215	1	0	0	0	0	0	0	0
R2000	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	0	0	0	0	1	0	0
R2001	RES 1k2 1% 0.063W 100ppm 0402	RES 1,2K 1% 0,063W 100ppm 0402 SMT	01-1996	Yageo	RC0402FR-071K2L	VISHAY (F)# CRCW04021K20FKED YAGEO (F)# RC0402FR-071K2L	1	0	0	0	0	1	0	0
R2002	RES 470R 1% 0.063W 100ppm 0402	RES 470R 1% 0,063W 100ppm 0402 SMT	01-2002	Yageo	RC0402FR-07470RL	YAGEO (F)# RC0402FR-07470RL	1	0	0	0	0	1	0	0
R2003	RES 2k2 1% 0.063W 100ppm 0402	RES 2,2K 1% 0,063W 100ppm 0402 SMT	01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	1	0	0	0	0	1	0	0

R2004	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	1	0	0
R2005	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	1	0	0
R2006	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	1	0	0
R2007	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	0	0	0	0	0	0	0
R2008	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	1	0	0
RN2000	RESA 4x2k2 5% 0.063W 200ppm 1206	RESA 4x 2,2K 5% 0,063W 200ppm 1206Array SMT	01-0741-4	AVX	CRA3A4E222JT	AVX (G)# CRA3A4E222JT BI (F)# BCN164A222J7 KOA (F)# CN1J4ATTD222J AS1 (G)# YCN224 222 JL	1	0	0	0	0	1	0	0
SV2000	SL 2x4p 180° 1.27 mm piitch	SL 2x4p 180° 1,27mm pitch SMT	03-4830	Samtec	FTS-104-01-F-DV-P-TR	SAMTEC (F)# ASP-127005-01 SAMTEC (G)# FTS-104-01-F-DV SAMTEC (F)# FTS-104-01-F-DV-P-TR	1	0	0	0	0	1	0	0
Contactor															
C3000	CAPE 10mF 20% 16V 3000h@105°C RM7.5 THT 18x35.5mm	CAPE 10mF 20% 16V 3000h@105°C RM7,5 THT 18x35,5mm	02-3653	Nippon Chemi	EKMQ160EC3103MLP1S	RUBYCON (A)# 16 YXA 10000 M-EFC 18x35.5 RUBYCON (A)# 16YXA10000MCE	1	1	0	0	0	0	1	0
D3000	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	1	0	0	0	0	1	0
D3001	DIOZ BZX84C15 15V 200mA SOT-23	DIOZ BZX84-C15 15V 200mA SOT23 SMT	08-1122	NXP BZX84-		NXP (F)# BZX84-C15 NXP (F)# BZX84-C15,215	1	1	0	0	0	0	1	0
N3000	T ULN2003 7xNPN 50V 0.5A SO-16	T ULN2003D NPN 50V 500mA SO16 SMT	11-0373	On Semi.	ULN2003ADR2G	ST (F)# ULN2003D1013TR TEXAS (F)# ULN2003ADR Onsemi (F)# ULN2003ADR2G	1	1	0	0	0	0	1	0
R3000	RES 220k 1% 0.063W 100ppm 0402	RES 220K 1% 0,063W 100ppm 0402 SMT	01-4325	Yageo	RC0402FR-07220KL	VISHAY (F)# CRCW0402220KFKED YAGEO (F)# RC0402FR-07220KL	1	1	0	0	0	0	1	0
R3001	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	1	0	0	0	0	1	0
SV3000	SL 1x3p 180° RM2.5 THT	SL 3p 180° RM2.5 THT	03-3062	Molex	22-04-1031	MOLEX (F)# 22-04-1031 Conexcon (F)# 2431-2031	1	1	0	0	0	0	1	0
T3000	T BCP54-16 NPN 45V 1A SOT-223	T BCP54-16 NPN 45V 1A SOT223 SMT	08-0331	NXP	BCP54-16	PHILIPS (V)# BCP54-16 NXP (F)# BCP54-16 NXP (F)# BCP54-16,115	1	1	0	0	0	0	1	0
SO output 1															

B4000	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	0	0
C4000	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0
C4001	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-6172			KEMET (F)# C0603C104K5RAC7867 Samsung (F)# CL10B104KB8NNNC Samsung (F)# CL10B104KB8NNNL YAGEO (F)# CC0603KRX7R9BB104 TDK (F)# C1608X7R1H104K080AA	1	1	1	1	1	1	0	0
C4002	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0
D4000	DIOZ ZMY30-13 30V 25mA Melf	DIOZ ZMY30-13 30V 25mA Melf SMT	08-0554	Vishay	ZMY30-GS08	VISHAY (F)# ZMY30 VISHAY (F)# ZMY30-GS08 SEMIKRON (F)# ZMY30 Diotec (F)# ZMY30	1	1	1	1	1	1	0	0
OK4000	OK VO615A 60mA 6.5x4.6x3.6mm SMD	Optokoppler VO615A-4X009T 60mA 6.5x4.6x3.6mm SMT	08-45971	Vishay	VO615A-4X009T	VISHAY (F)# VO615A-4X009T	1	1	1	1	1	1	0	0
R4000	RES 68R 1% 0.25W 100ppm 1206	RES 68R 1% 0,25W 100ppm 1206 SMT	01-0187			VISHAY (F)# CRCW1206 68R0 FKEA ASJ (F)# CR32-68R0-FL YAGEO (F)# RC1206FR-0768RL	1	1	1	1	1	1	0	0
R4001	RES 4k7 1% 0.063W 100ppm 0402	RES 4,7K 1% 0,063W 100ppm 0402 SMT	01-1994	Yageo	RC0402FR-074K7L	VISHAY (F)# CRCW04024K70FKED YAGEO (F)# RC0402FR-074K7L YAGEO (F)# RC0402FR-134K7L	1	1	1	1	1	1	0	0
R4002	RES 68R 1% 0.125W 100ppm 0805	RES 68R 1% 0,125W 100ppm 0805 SMT	01-0842	Yageo	RC0805FR-0768RL	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	1	1	1	1	1	0	0
R4003	RES 0R x% 0,25W 100ppm 1206	RES 0R -% 0,25W xppm 1206 SMT	01-0160			YAGEO (F)# RC1206JR-070RL		1	1	1	1	1	0	0
RN4000	RESA 4x2k2 5% 0.063W 200ppm 1206	RESA 4x 2,2K 5% 0,063W 200ppm 1206Array SMT	01-0741-4	AVX	CRA3A4E222JT	AVX (G)# CRA3A4E222JT BI (F)# BCN164A222J7 KOA (F)# CN1J4ATTD222J ASJ (G)# YCN224 222 JL	1	1	1	1	1	1	0	0
T4000	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	1	1	1	1	1	0	0
X4000	KL 2x3p 90° RM5.08 THT	KL 2x3p 90° RM5.08 THT	03-7550	Conectron ics	TEBL-18725080706	WIELAND (F)# 25.179.5353.0 Conectronics (F)# TEBL-18725080706	1	1	1	1	1	1	0	0
SO output 2															
B4100	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	0	1	0	1	1	0	0
C4100	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0

C4101	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-6172			KEMET (F)# C0603C104K5RAC7867 Samsung (F)# CL10B104KB8NNNC Samsung (F)# CL10B104KB8NNNL YAGEO (F)# CC0603KRX7R9BB104 TDK (F)# C1608X7R1H104K080AA	1	0	1	0	1	1	0	0
C4102	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0
D4100	DIOZ ZMY30-13 30V 25mA Melf	DIOZ ZMY30-13 30V 25mA Melf SMT	08-0554	Vishay	ZMY30-GS08	VISHAY (F)# ZMY30 VISHAY (F)# ZMY30-GS08 SEMIKRON (F)# ZMY30 Diotec (F)# ZMY30	1	0	1	0	1	1	0	0
OK4100	OK VO615A 60mA 6.5x4.6x3.6mm SMD	Optokoppler VO615A-4X009T 60mA 6.5x4.6x3.6mm SMT	08-45971	Vishay	VO615A-4X009T	VISHAY (F)# VO615A-4X009T	1	0	1	0	1	1	0	0
R4100	RES 68R 1% 0.125W 100ppm 0805	RES 68R 1% 0,125W 100ppm 0805 SMT	01-0842	Yageo	RC0805FR-0768RL	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	0	1	0	1	1	0	0
R4101	RES 4k7 1% 0.063W 100ppm 0402	RES 4,7K 1% 0,063W 100ppm 0402 SMT	01-1994	Yageo	RC0402FR-074K7L	VISHAY (F)# CRCW04024K70FKED YAGEO (F)# RC0402FR-074K7L YAGEO (F)# RC0402FR-134K7L	1	0	1	0	1	1	0	0
R4102	RES 68R 1% 0.125W 100ppm 0805	RES 68R 1% 0,125W 100ppm 0805 SMT	01-0842	Yageo	RC0805FR-0768RL	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	0	1	0	1	1	0	0
T4100	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	0	1	0	1	1	0	0
SO output 3															
B4200	GL MB4S 280V 0.5A SMD	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	08-1108-1	Panjit	B4S_R2_00001	GS (V)# MB4S-E3/45 GS (V)# MB6S-E3/45 VISHAY (F)# MB4S TO269AA 4p VISHAY (F)# MB4S-E3/45 VISHAY (F)# MB6S-E3/45 PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	0	0	0	0	1	0	0
C4200	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0
C4201	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-6172			KEMET (F)# C0603C104K5RAC7867 Samsung (F)# CL10B104KB8NNNC Samsung (F)# CL10B104KB8NNNL YAGEO (F)# CC0603KRX7R9BB104 TDK (F)# C1608X7R1H104K080AA	1	0	0	0	0	1	0	0
C4203	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0
D4200	DIOZ ZMY30-13 30V 25mA Melf	DIOZ ZMY30-13 30V 25mA Melf SMT	08-0554	Vishay	ZMY30-GS08	VISHAY (F)# ZMY30 VISHAY (F)# ZMY30-GS08 SEMIKRON (F)# ZMY30 Diotec (F)# ZMY30	1	0	0	0	0	1	0	0
OK4200	OK VO615A 60mA 6.5x4.6x3.6mm SMD	Optokoppler VO615A-4X009T 60mA 6.5x4.6x3.6mm SMT	08-45971	Vishay	VO615A-4X009T	VISHAY (F)# VO615A-4X009T	1	0	0	0	0	1	0	0
R4200	RES 68R 1% 0.125W 100ppm 0805	RES 68R 1% 0,125W 100ppm 0805 SMT	01-0842	Yageo	RC0805FR-0768RL	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	0	0	0	0	1	0	0
R4201	RES 4k7 1% 0.063W 100ppm 0402	RES 4,7K 1% 0,063W 100ppm 0402 SMT	01-1994	Yageo	RC0402FR-074K7L	RES 4,7K 1% 0,063W 100ppm 0402 SMT	1	0	0	0	0	1	0	0
R4202	RES 68R 1% 0.125W 100ppm 0805	RES 68R 1% 0,125W 100ppm 0805 SMT	01-0842	Yageo	RC0805FR-0768RL	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	0	0	0	0	1	0	0

T4200	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	0	0	0	0	1	0	0
Load relays															
C6000	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R7BB104	1	1	1	1	1	1	0	0
C6001	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R7BB104	1	1	1	1	1	1	0	0
C6002	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R7BB104	1	1	1	1	1	1	0	0
C6003	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R7BB104	1	1	1	1	1	1	0	0
C6100	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-1902	Yageo	CC0603KRX7R9BB104	Murata (F)# GRM188R71H104KA93D YAGEO (F)# CC0603KPX7R9BB104 YAGEO (F)# CC0603KRX7R9BB104	1	1	1	1	1	1	0	0
C6101	CAPE 47µ 20% 35V 2000h@85°C SMD-E 19x20.5 mm	CAPE 47µF 20% 35V 2000h@85°C SMD-E SMT 19x20,5mm	02-1001	Elna	RV-35V470MG68U-R	PANASONIC (G)# EEE1VA470P ELNA (F)# RV-35V470MG68TQ-R2 ELNA (F)# RV-35V470MG68U-R	1	1	1	1	1	1	0	0
K6100	CO 250V 8A 12V THT	Relais CO 250V 8A 12V 24x10x18,8mm THT Pin in Paste möglich	04-3960	Panasonic	ADW1212TL01	PANASONIC (F)# ADW1212TL01 PANASONIC (F)# ADW1212W	1	1	1	1	1	1	0	0
K6101	CO 250V 8A 12V THT	Relais CO 250V 8A 12V 24x10x18,8mm THT Pin in Paste möglich	04-3960	Panasonic	ADW1212TL01	PANASONIC (F)# ADW1212TL01 PANASONIC (F)# ADW1212W	1	1	1	1	1	1	0	0
R6000	RES 100k 1% 0.063W 100ppm 0402	RES 100K 1% 0,063W 100ppm 0402 SMT	01-1905	Yageo	RC0402FR-07100KL	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL	1	1	1	1	1	1	0	0
R6001	RES 100k 1% 0.063W 100ppm 0402	RES 100K 1% 0,063W 100ppm 0402 SMT	01-1905	Yageo	RC0402FR-07100KL	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL	1	1	1	1	1	1	0	0
R6002	RES 100k 1% 0.063W 100ppm 0402	RES 100K 1% 0,063W 100ppm 0402 SMT	01-1905	Yageo	RC0402FR-07100KL	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL	1	1	1	1	1	1	0	0
SV6000	SSL 2x4p 180° RM2.54 THT	SSL 2x4p 180° RM2,54 THT	03-7908	Samtec	DW-04-11-F-D-495	SAMTEC (F)# DW-04-11-F-D-495 Conectronics (F)# A25424-0801A8 20/2 80/12 60	1	1	1	1	1	1	1	1
V6100	T ULN2003 7xNPN 50V 0.5A SO-16	T ULN2003D NPN 50V 500mA SO16 SMT	11-0373-31	On Semi.	ULN2003ADR2G	ST (F)# ULN2003D1013TR TEXAS (F)# ULN2003ADR Onsemi (F)# ULN2003ADR2G	1	1	1	1	1	1	0	0
RS-485															
C7000	CAPC 220p 5% 50V X7R 0402	CAPC 220pF 5% 50V X7R 0402 SMT	02-1906	AVX	04025C221JAT2A	AVX (F)# 04025C221JAT2A	1	1	0	1	0	1	0	0
C7001	CAPC 100n 10% 50V X7R 0603	CAPC 100nF 10% 50V X7R 0603 SMT	02-1902	Yageo	CC0603KRX7R9BB104	Murata (F)# GRM188R71H104KA93D YAGEO (F)# CC0603KPX7R9BB104 YAGEO (F)# CC0603KRX7R9BB104	1	1	0	1	0	1	0	0
C7002	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	1	0	1	0	1	0	0
C7003	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	1	0	1	0	1	0	0

C7004	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	1	0	1	0	1	0	0
C7005	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	1	0	1	0	1	0	0
C7006	CAPC 220p 5% 50V X7R 0402	CAPC 220pF 5% 50V X7R 0402 SMT	02-1906	AVX	04025C221JAT2A	AVX (F)# 04025C221JAT2A	1	1	0	1	0	1	0	0
D7000	DIO SM2T6V8A 6V8 25A DO216AA	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	08-3578	ST	SM2T6V8A	ST (F)# SM2T6V8A VISHAY (F)# SMP5.0A-M3/84A	1	1	0	1	0	1	0	0
D7001	DIO SM2T6V8A 6V8 25A DO216AA	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	08-3578	ST	SM2T6V8A	ST (F)# SM2T6V8A VISHAY (F)# SMP5.0A-M3/84A	1	1	0	1	0	1	0	0
D7002	DIO SM2T6V8A 6V8 25A DO216AA	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	08-3578	ST	SM2T6V8A	ST (F)# SM2T6V8A VISHAY (F)# SMP5.0A-M3/84A	1	1	0	1	0	1	0	0
IC7000	IC MAX481 SO-8 Transceiver	IC MAX481ESA -40/+85°C SO8 SMT Transceiver	11-7213	Maxim	MAX481ESA+T	MAXIM (F)# MAX 481 ESA +T MAXIM (F)# MAX481ESA+T	1	1	0	1	0	1	0	0
L7000	COIL 2x6.5mH 50% 420mR 600mA 5.8x5.8x4.8 mm SMD	COIL 6,5mH 50% 420mR 600mA 9.2x6x5mm SMT	04-0797	Wuerth eisos	744229	WÜRTH eisos (F)# 744229	1	1	0	1	0	1	0	0
Q7000	T BSS84 P-Kanal 50V 130mA SOT-23	T BSS84 P-Kanal 50V 130mA SOT23 SMT	08-0275-4	NXP	BSS84	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	1	1	0	1	0	1	0	0
Q7001	T BSS123 N-Kanal 100V 170mA SOT-23	T BSS123 N-Kanal 100V 170mA SOT23 SMT	08-0503	NXP	BSS123 T/R	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215	1	1	0	1	0	1	0	0
Q7002	T BSS123 N-Kanal 100V 170mA SOT-23	T BSS123 N-Kanal 100V 170mA SOT23 SMT	08-0503	NXP	BSS123 T/R	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215	1	1	0	1	0	1	0	0
R7000	RES 560R 1% 0.125W 100ppm 0805	RES 560R 1% 0,125W 100ppm 0805 SMT	01-0799	Yageo	RC0805FR-07560RL	KOA (F)# RK73H2ATTD5600F ASJ (F)# CR21-5600-FK ASJ (F)# CR21-5600-FL ASJ (F)# CR21-5600F YAGEO (F)# RC0805FR-07560RL	1	1	0	1	0	1	0	0
R7001	RES 560R 1% 0.125W 100ppm 0805	RES 560R 1% 0,125W 100ppm 0805 SMT	01-0799	Yageo	RC0805FR-07560RL	KOA (F)# RK73H2ATTD5600F ASJ (F)# CR21-5600-FK ASJ (F)# CR21-5600-FL ASJ (F)# CR21-5600F YAGEO (F)# RC0805FR-07560RL	1	1	0	1	0	1	0	0
R7002	RES 2k2 1% 0.063W 100ppm 0402	RES 2,2K 1% 0,063W 100ppm 0402 SMT	01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	1	1	0	1	0	1	0	0
RN7000	RESA 4x100R 5% 0.063W 200ppm 1206	RESA 4x 100R 5% 0,063W 200ppm 1206Array SMT	01-1090	Bourns	CAY16-101J4	KOA (F)# CN1J 4 A TTD 101J KOA (F)# CN1J4ATTD101J CTS (G)# 742-08-3-101-JP-TR WALSIN (G)# CAY16-101J4 Bourns (G)# CAY16-101J4	1	1	0	1	0	1	0	0
V7000	DIOZ ZMY12 12V 60mA Melf	DIOZ ZMY12 12V 60mA Melf SMT	08-1153	Vishay	ZMY12-GS08	VISHAY (F)# ZMY12-GS08	1	1	0	1	0	1	0	0
V7001	DIOZ ZMY12 12V 60mA Melf	DIOZ ZMY12 12V 60mA Melf SMT	08-1153	Vishay	ZMY12-GS08	VISHAY (F)# ZMY12-GS08	1	1	0	1	0	1	0	0

V7002	DIOZ ZMY7V5 100mA Melf	DIOZ ZMY7V5 7,5V 100mA Melf SMT	08-8161	Vishay	ZMY7V5-GS08	VISHAY (F)# ZMY7V5-GS08 VISHAY (F)# ZMY7V5-GS18	1	1	0	1	0	1	0	0
CLO																
C7200	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	0	0	0
C7201	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	0	0	0	0	0	0	0
D7200	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	0	0	0	0	0	0	0
D7201	DIOZ ZMY33 33V 22mA Melf	DIOZ ZMY33 33V 22mA Melf SMT	08-2317	Vishay	ZMY33-GS08	VISHAY (F)# ZMY33 VISHAY (F)# ZMY33-GS08	1	0	0	0	0	0	0	0
D7202	DIA BAS40-05 40V 120mA SOT-23	DIO BAS40-05 40V 120mA uni SOT23 SMT	08-1120	NXP	BAS40-05	NXP (F)# BAS40-05 NXP (F)# BAS40-05,215	1	0	0	0	0	0	0	0
D7203	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	0	0	0	0	0	0	0
D7204	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	0	0	0	0	0	0	0
IC7200	IC SN74LVC2G14 SC70-6 Inverter	IC SN74LVC2G14 -40/+85°C SC70-6 SMT Inverter	06-1859	Texas	SN74LVC2G14DCKR		1	0	0	0	0	0	0	0
Q7200	T BSS123 N-Kanal 100V 170mA SOT-23	T BSS123 N-Kanal 100V 170mA SOT23 SMT	08-0503	NXP	BSS123 T/R	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215	1	0	0	0	0	0	0	0
Q7201	T BSS84 P-Kanal 50V 130mA SOT-23	T BSS84 P-Kanal 50V 130mA SOT23 SMT	08-0275-4	NXP	BSS84	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	1	0	0	0	0	0	0	0
R7200	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	0	0	0	0	0	0	0
R7201	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	0	0	0
R7202	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	0	0	0	0	0	0	0
R7203	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	0	0	0
R7204	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	0	0	0

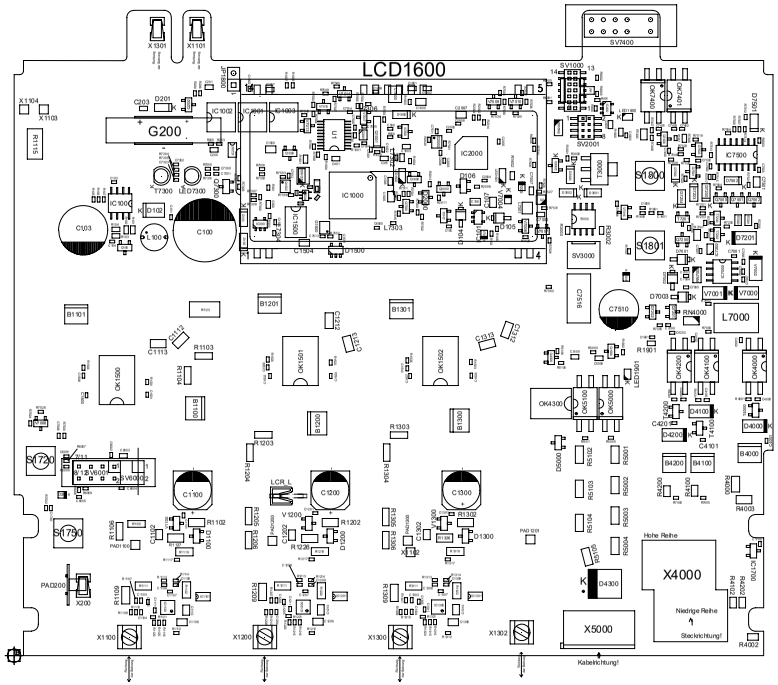
R7205	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	0	0	0
R7206	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
R7207	RES 100R 1% 0.125W 100ppm 0805	RES 100R 1% 0,125W 100ppm 0805 SMT	01-0573	Yageo	RC0805FR-07100RL	KOA (F)# RK73H 2A T TD 1000 F ASJ (F)# CR21-1000-FL YAGEO (F)# RC0805FR-07100RL	1	0	0	0	0	0	0	0
R7208	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	0	0	0	0	0	0	0
T7200	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	0	0	0	0	0	0	0
T7201	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	0	0	0	0	0	0	0
T7202	T BC847B NPN 45V 100mA SOT-23	T BC847B NPN 45V 100mA SOT23 SMT	08-0153	NXP	BC847B	Onsemi (F)# BC847BLT1G NXP (F)# BC847B	1	0	0	0	0	0	0	0
Optical port															
C7300	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1
C7301	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1
LED7300	LED SFH4356 RM2.54 THT 850nm	LED SFH4356 1-fach Infrarot RM2,54 THT 850nm Z		Osram	SFH4356-UVRN29C	OSRAM (F)# SFH4356-URN29A OSRAM (F)# SFH4356-URN29C OSRAM (F)# SFH4356-UVRN29A OSRAM (F)# SFH4356-UVRN29C OSRAM (A)# SFH487-2RN29A	1	1	1	1	1	1	1	1
R7300	RES 330R 1% 0.063W 100ppm 0402	RES 330R 1% 0,063W 100ppm 0402 SMT	01-2649	Yageo	RC0402FR-0733RL	KOA (F)# RK73H 1E TTP 3300F YAGEO (F)# RC0402FR-07330RL	1	1	1	1	1	1	1	1
R7301	RES 1k 1% 0.063W 100ppm 0402	RES 1K 1% 0,063W 100ppm 0402 SMT	01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
R7302	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1
R7303	RES 0R x% 0.063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	1	1	1
T7300	SFH309FA-3 RM2.54 THT	Fototransistor SFH309FA-3 15mA RM2,54 THT Z	38-0183	Osram	SFH309FA-3/4 RN29A	OSRAM (T)# SFH309FA-3/4 OSRAM (G)# SFH309FA-3/4 RN23A OSRAM (G)# SFH309FA-3/4 RN25 OSRAM (F)# SFH309FA-3/4 RN29A	1	1	1	1	1	1	1	1
Comms port															
C7400	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1
C7401	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0

C7402	CAPC 100p 5% 50V NP0 0402	CAPC 100pF 5% 50V NPO 0402 SMT	02-1887	Yageo	2238 869 15101	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101	1	0	0	0	0	0	0	0
C7403	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1
OK7400	OK VO615A 60mA 6.5x4.6x3.6mm SMD	Optokoppler VO615A-4X009T 60mA 6.5x4.6x3.6mm SMT	08-4597-2	Vishay	VO615A-4X009T	VISHAY (F)# VO615A-4X009T	1	1	1	1	1	1	1	1
OK7401	OK VO615A 60mA 6.5x4.6x3.6mm SMD	Optokoppler VO615A-4X009T 60mA 6.5x4.6x3.6mm SMT	08-4597-2	Vishay	VO615A-4X009T	VISHAY (F)# VO615A-4X009T	1	1	1	1	1	1	1	1
Q7400	T BC857C PNP 45V 100mA SOT-23	T BC857C PNP 45V 100mA SOT23 SMT	08-0154	NXP	BC857C	PHILIPS (V)# BC857C INFINEON (F)# BC857C LRC (F)# LBC857CLT1G NXP (F)# BC857C	1	1	1	1	1	1	1	1
R7400	RES 560R 1% 0.125W 100ppm 0805	RES 560R 1% 0,125W 100ppm 0805 SMT	01-0799	Yageo	RC0805FR-07560RL	KOA (F)# RK73H2ATTD5600F ASJ (F)# CR21-5600-FK ASJ (F)# CR21-5600-FL ASJ (F)# CR21-5600F YAGEO (F)# RC0805FR-07560RL	1	1	1	1	1	1	1	1
R7401	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1
R7402	entfallen						1							
R7403	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	1	0	0
R7404	entfallen						0							
R7405	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	1	0	0
R7406	RES 330R 1% 0.1W 100ppm 0603	RES 330R 1% 0,1W 100ppm 0603 SMT	01-0648	Yageo	RC0603FR-10330RL	ASJ (F)# CR16-3300-FK ASJ (F)# CR16-3300-FL YAGEO (F)# RC0603FR-07330RL YAGEO (F)# RC0603FR-10330RL	1	1	1	1	1	1	1	1
R7407	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	0	0	0
R7408	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	1	1	1
SV7400	BL 2x6p 180° RM2.54 THT	BL 2x6p 180° RM2,54 THT	03-6451	Samtec	SSW-106-01-F-D	SAMTEC (F)# SSW-106-01-F-D Conectronics (F)# BTOB-25485EHST12GATTHT20000	1	1	1	1	1	1	1	1
Serial IO																
C7500	CAPC 1n 10% 50V X7R 0402	CAPC 1nF 10% 50V X7R 0402 SMT	02-1197	Yageo	CC0402KRX7RR9BB102	Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102	1	1	1	1	1	1	1	1
C7501	CAPC 1µ 10% 25V X7R 0805	CAPC 1µF 10% 25V X7R 0805 SMT	02-3597	Holystone	C0805X105K025TX	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1
C7502	CAPC 1n 10% 50V X7R 0402	CAPC 1nF 10% 50V X7R 0402 SMT	02-1197	Yageo	CC0402KRX7RR9BB102	Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102	1	1	1	1	1	1	1	1
C7503	CAPC 100n 10% 16V X7R 0402	CAPC 100nF 10% 16V X7R 0402 SMT	02-2204	Murata	GRM155R71C104KA88D	Murata (F)# GRM155R71C104KA88D YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1

D7500	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	1	1	1	1	1	1	1
D7501	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	1	1	1	1	1	1	1
D7502	DIO LL4150 50V 600mA M-M	DIO LL4150GS08 50V 600mA uni Minimelf SMT	08-1107	Vishay	LL4150-GS08	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	1	1	1	1	1	1	1	1
D7503	DIA BAS40-05 40V 120mA SOT-23	DIO BAS40-05 40V 120mA uni SOT23 SMT	08-1120	NXP	BAS40-05	NXP (F)# BAS40-05 NXP (F)# BAS40-05,215	1	1	1	1	1	1	1	1
IC7500	IC 74HCT86 SO-14 ExOr	IC CD74HCT86 -40/+85°C EXOR SO14 SMT	06-0297-1	NXP	74HCT86D	NXP (F)# 74HCT86 D NXP (F)# 74HCT86D,653	1	1	1	1	1	1	1	1
Q7500	T BSS123 N-Kanal 100V 170mA SOT-23	T BSS123 N-Kanal 100V 170mA SOT23 SMT	08-0503	NXP	BSS123 T/R	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215	1	0	0	0	0	1	0	0
Q7501	T BSS84 P-Kanal 50V 130mA SOT-23	T BSS84 P-Kanal 50V 130mA SOT23 SMT	08-0275-4	NXP	BSS84	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	1	1	1	1	1	1	1	1
R7500	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	0	0	0	0	1	0	0
R7501	RES 220R 1% 0.063W 100ppm 0402	RES 220R 1% 0,063W 100ppm 0402 SMT	01-3474	Yageo	RC0402FR-07220RL	VISHAY (F)# CRCW0402220RFKED YAGEO (F)# RC0402FR-07220RL	1	0	0	0	0	1	0	0
R7502	RES 10k 1% 0.063W 100ppm 0402	RES 10K 1% 0,063W 100ppm 0402 SMT	01-1907	Yageo	RC0402FR-0710KL	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	0	0	0	0	1	0	0
R7503	RES 22k 1% 0.063W 100ppm 0402	RES 22K 1% 0,063W 100ppm 0402 SMT	01-3455	Yageo	RC0402FR-0722KL	VISHAY (F)# CRCW040222K0FKED KOA (F)# RK73H1ETTP2202F YAGEO (F)# RC0402FR-0722K YAGEO (F)# RC0402FR-0722KL	1	0	0	0	0	1	0	0
R7504	RES 2k2 1% 0.063W 100ppm 0402	RES 2,2K 1% 0,063W 100ppm 0402 SMT	01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	1	0	0	0	0	1	0	0
R7505	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	0	0	0	0	1	0	0
R7506	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	0	1	1
R7507	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	0	1	1
R7508	RES 0R x% 0,063W 200ppm 0402	RES 0R x% 0,063W 200ppm 0402 SMT	01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	1	0	0
R7509	RES 2k2 1% 0.063W 100ppm 0402	RES 2,2K 1% 0,063W 100ppm 0402 SMT	01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	1	1	1	1	1	1	1	1

R7510	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	0	0	0	0	0	1	0	0
R7511	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	0	1	1
R7512	RES 1k 1% 0.063W 100ppm 0402 SMT		01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
R7513	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	Yageo	RC0402FR-071KL	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL	1	1	1	1	1	1	1	1
R7514	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	Yageo	RC0402JR-070RL	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL	1	1	1	1	1	1	1	1
R7515	RES 2k2 1% 0.063W 100ppm 0402 SMT		01-2001	Yageo	RC0402FR-072K2L	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L YAGEO (F)# RC0402FR-132K2L	0	0	0	0	0	0	0	0
R7516	RES 100k 1% 0.063W 100ppm 0402 SMT		01-1905	Yageo	RC0402FR-07100KL	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL	1	1	1	1	1	1	1	1
R7517	RES 10M 1% 0.063W 100ppm 0402	RES 10M 1% 0,063W 100ppm 0402 SMT	01-3307	Yageo	RC0402FR-0710ML	YAGEO (F)# RC0402FR-0710ML	1	1	1	1	1	1	1	1
Parts not in														
PCB	PCB Elster AS3000 DTC Rev. 2.0		15-7279-1				1	1	1	1	1	1	1	1
ASE	Disconnect unit		21-0541-abc	Gruner	735BR-R3A-B9R0		1	1	0	0	0	0	1	0
SCR1-16	Screw M6x14		05-7442-abc	Hora	M6x14 LA3002249		1	1	0	0	0	0	1	0
KBD	Terminal block	A1440Y Klemmblock direkt kompl Elster # LA3002743	05-7443-abc	Elster	A1440Y		0	0	1	1	0	0	0	0
KBW	Terminal block		05-8078-abc	Elster	AS1440Y MW		0	0	0	0	1	1	0	1
WIP	Label		18-3442	Brady	THT-B727-7X7		1	1	1	1	1	1	1	1
OT	Cover		05-9825-1abc	Ikusto	40180816		1	1	1	1	1	1	1	1
UT	Base		05-9829-abc	Ikusto	40180812		1	1	1	1	1	1	1	1
PROD	Label		18-7669				1	1	1	1	1	1	1	1
FKT1	FKT1_IC1				FW version		1	1	1	1	1	1	1	1
FW	Label	Rohlabel 16x6mm Polyester weiß AFO-Label UL	05-0804-3			3M (F)# 3922 DSL Dynamic (F)# DE-F190 Herma Print (F)# et 11117 010001	1	1	1	1	1	1	1	1

Layer(s):	
	Assembly Top
	Legend



	Funktionsstand		Datum	07.06.2019	AS3000V Rev.: 1.4b	ELSTER	(Logo)
	Erzeugnisstand		Bearbeitet	DH			
	Unterlagenstand		Gepruefft				
			Frei gegeben		Ersetzt	Ersetzt durch	

Kunde-Projekt-Nr.	
Kunde-PCB-Nr.	
BMK-Projekt-Nr.	
BMK-PCB-Nr.	

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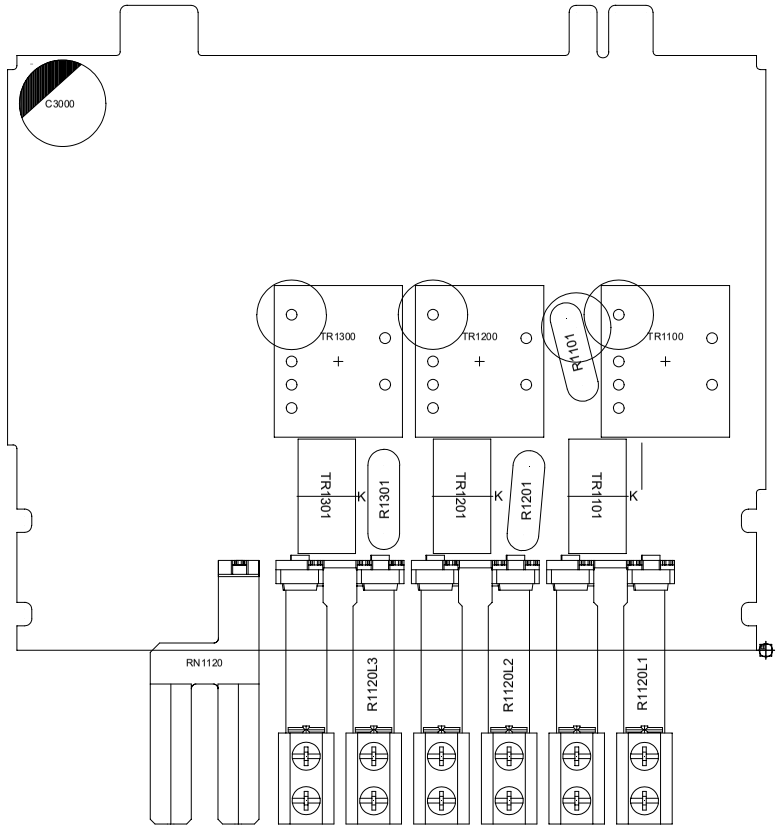
Layer(s):

Assembly Bottom

Legend



Funktionsstand		Datum	07.06.2019	AS3000V Rev.: 1.4b	ELSTER	Logo	Kunde-Projekt-Nr.
Erzeugnisstand		Bearbeitet	DH				Kunde-PCB-Nr.
Unterlagenstand		Geprueft					BMK-Projekt-Nr.
		Frei gegeben		Ersetzt	Ersetzt durch		BMK-PCB-Nr.

NMi

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				DLMS				DLMS						DLMS				DLMS	
Component list AS3000 Rev 1.4.8					R&D	R&D	R&D	R&D	same as R25	same as R28	based on R31	same as R135	same as R138	based on R36	same as R41	same as R146	based on R47	based on R61
Ref	**No.**	**Part name**	**manufacturer**	**remark**	Rx31	Rx36	Rx41	Rx77	**R225**	**R228**	**R231**	**R235**	**R238**	**R239**	**R241**	**R246**	**R247**	**R261**
					DC	**DC/Breaker**	**CT**	**MWZ**	**DC LA3004022**	**DC/Breaker LA3004023**	**DC LA3004024**	**DC LA3004025**	**DC/Breaker LA3004026**	**DC/Breaker LA3004027**	**CT LA3004028**	**CT LA3004029**	**CT LA3004030**	**CT LA3004031**
Powersupply 5V																		
C100	32-6301	CAPE 5,6mF 20% 6,3V RM5 THT 10000h@105°C 12,5x25mm	PANASONIC (F)# EEU-FS0J562B		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C101	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C102	02-1906	CAPC 220pF 5% 50V X7R 0402 SMT	AVX (F)# 04025C221JAT2A KYOCERA (F)# (CM)05X7R221J50AH		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C103	02-3712	CAPE 330µF 20% 50V 7000h@105°C RM5 THT lowimp 78mR 10x20mm	RUBYCON (F)# 50 YXF 330M CE 10x20 RUBYCON (F)# 50 YXF 330M EFC- CE 10x20 RUBYCON (F)# 50YXF330MEFCCE 10X20		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C104	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105B104KV-F		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C105	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C106	02-2451	CAPC 1µF 10% 25V X7R 0805 SMT	Murata (F)# GRM21BR71E105KA99L YAGEO (F)# CC0805KKX7R8BB105 TDK (F)# C2012X7R1E105K		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C107	02-2451	CAPC 1µF 10% 25V X7R 0805 SMT	Murata (F)# GRM21BR71E105KA99L YAGEO (F)# CC0805KKX7R8BB105 TDK (F)# C2012X7R1E105K		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D100	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D101	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D102	08-0842-1	DIO ES1D 200V 1A uni SMA SMT	FAIRCHILD (F)# ES1D VISHAY (F)# es1d VISHAY (F)# ES1D-E3/61T	Unterschiedliche Spannungen genommen	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D103	08-3456	DIO BAS40-06 40V 120mA uni SOT23 SMT	Onsemi (F)# BAS40-06LT1G INFINEON (F)# BAS40-06 E6327 NXP (F)# BAS40-06 NXP (F)# BAS40-06,215		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D104	08-3578	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	ST (F)# SM2T6V8A		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D105	08-3578	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	ST (F)# SM2T6V8A		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D106	08-1146	DIO BAS40 40V 120mA uni SOT23 SMT	Onsemi (F)# BAS40LT1G NXP (G)# BAS40		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC100	11-8546	IC MC34063EBD -40/+125°C SO8 SMT Schaltregler	ST (F)# MC34063EBD-TR		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC101	11-6112	IC NCP551SN33T1G -40/+85°C SOT23-5 SMT Spannungsregler	Onsemi (F)# NCP551SN33T1G		1	1	1	1	1	1	1	1	1	1	1	1	1	1
L100	04-4089	COIL 100µH 10% 700mR 680mA 5,8x5,8x4,8mm SMT	Bourns (F)# SDR0604-101KL Cle Wolff (F)# CWI5F54-101K-R-T1-LF		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q100	03-3676	T PBSS5250T PNP 50V 2A SOT23 SMT	NXP (F)# PBSS5250T		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R100	01-0887	RES 270R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-2700-FL YAGEO (F)# RC0603FR-0727ORL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R101	01-0610	RES 1K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-1001-FK ASJ (F)# CR16-1001-FL YAGEO (F)# RC0603FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R102	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200R0ED VISHAY (F)# CRCW040200R0SED YAGEO (F)# RC0402JR-070RL	kein STM32µC, dann 1 & R108 0 + Serial IO Select	1	0	1	0	1	1	1	1	1	0	1	1	0	1
R103	01-1199-2	RES 1R 1% 0,1W 200ppm 0603 SMT	ASJ (F)# CR16-1R00-FL Yageo-Phycom (F)# RC0603FR-071RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1

R104	01-1199-2	RES 1R 1% 0,1W 200ppm 0603 SMT	ASJ (F)# CR16-1R00-FL Yageo-Phycom (F)# RC0603FR-071RL Yageo-Phycom (F)# RC0603FR-131R		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R105	01-2653	RES 1.2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K20FKED YAGEO (F)# RC0402FR-071 2KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R106	01-2653	RES 1.2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K20FKED YAGEO (F)# RC0402FR-071 2KL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R107	01-4218	RES 3,9K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 3K90 FKED YAGEO (F)# RC0402FR-073K9L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R108	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04020000Z0ED VISHAY (F)# CRCW040200002SED YAGEO (F)# RC0402JR-070RL	STM32µC vorhanden, dann 1 & R102 0 + Serial IO Select	0	1	0	1	0	0	0	0	0	1	0	0	1	0		
Battery Management																					
C200	02-3746	CAP C 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C201	02-3746	CAP C 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C203	02-3746	CAP C 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D200	08-3838	DIO RB751V40 40 V 30mA uni SOD323 SMT	Onsemi (F)# RB751V40T1G		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D201	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18 Diotec (F)# LL4150		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
G200	05-4694-1	Li-Batt. 3V -g 560mAh - Wh 24,5x5mm THT Li-Met	RENATA (F)# CR2450 NRV-LF VARTA (F)# 06450 201 025 VARTA (F)# 06450 201 501		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC200	07-8293	IC BU4927G -40/+125°C SSOP5 SMT Voltaae Detector	ROHM (F)# BU4927G-TR		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PAD200	05-4684	Feder Batteriekontakt 8,7x18.3x0,8mm THT	KEYSTONE (F)# 108-2 RAMTRON (F)# 108-2		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q200	08-0275-4	T BSS84 P-Kanal 50V 130mA SOT 23 SMT	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R203	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00 FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R204	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R205	01-3307	RES 10M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-0710ML Yaeeo-Phycom (F)# RC0402FR-0710ML		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R206	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
X200	05-4686	Befestigungselement Feder 5x3x4mm SMT	KITAGAWA (F)# OG-503040		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7510	02-0440	CAPE 220µF 20% 25V 7000h@105°C RM5,5 THT low Imp 250mR 8x11,5mm	RUBYCON (F)# 25 YXF 220 M-EFC-CT 8x11,5 RUBYCON (F)# 25YXF 220 M CE 8x11.5 RUBYCON (F)# 25YXF220MEFCCE8x11.5 RUBYCON (F)# 25YXF220MEFCT78x11.5 NICHICON (F)# UPW1E221MPD PANASONIC (F)# EEUFC1E221		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7004	08-3838	DIO RB751V40 40 V 30mA uni SOD323 SMT	Onsemi (F)# RB751V40T1G		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7018	08-3838	DIO RB751V40 40 V 30mA uni SOD323 SMT	Onsemi (F)# RB751V40T1G		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7516	02-2247	CAPE 220mF 20% 5,5V 1000h@70°C RM5 THT 19x20,5mm	Eaton (F)# KR-5R5V224-R PANASONIC (F)# EECS0HD224V (obsolete)		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7562	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW040210R0FKED YAGEO (F)# RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7019	08-3838	DIO RB751V40 40 V 30mA uni SOD323 SMT	Onsemi (F)# RB751V40T1G		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Powerfail																					
C300	02-3746	CAP C 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C301	02-3746	CAP C 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC300	11-4892	IC BU4940G-TR -40/+105°C SSOP5 SMT CMOS Voltage Detector	ROHM (F)# BU4940G-TR		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R300	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW040210R0FKED YAGEO (F)# RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R301	01-2001	RES 2,2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Reset																					
C400	02-3746	CAP C 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C401	02-3746	CAP C 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC400	07-7805	IC BU4928G -40/+125°C SOT 753 SMT Voltage Detector	ROHM (F)# BU4928G-TR		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R400	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW040210R0FKED YAGEO (F)# RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R401	01-2001	RES 2,2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Temperature compensation																					

C500	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IC500	11-3784	Temperatur-Sensor SOT23 SMT LM60CIM3X/NOPB -40/+125	National Sem (F)# LM60CIM3 National Sem (F)# LM60CIM3X/NOPB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R500	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	Vishay (F)# CRCW0402000Z0ED Vishay (F)# CRCW04020000Z5E D YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-13 0RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MCOR (Renesas)																			
C1000	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K25STX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1005	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K25STX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1006	02-3746	CAPC 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L7302	04-2684	FILT 600R@ 100MHz 200mA 0402 SMT	WÜRTH elcos (F)# 74279279	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L7303	04-2684	FILT 600R@ 100MHz 200mA 0402 SMT	WÜRTH elcos (F)# 74279279	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1007	02-3746	CAPC 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1000	11-7111-2	IC M38049FFLHP -20/+85°C LQFP64 SMT 8Bit Mikrocontroller	Renesas (A)# M38049FFLHP#U0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1001	10-2588	IC M24256BRMN6TG -40/+85°C SO8 SMT EEPROM	ST (F)# M24256-BRMN6TP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1002	10-2597	IC M24512-R -40/+85°C EEPROM SO8 SMT	ST (F)# M24512-RMN6TG ST (F)# M24512-RMN6TP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1003	10-2597	IC M24512-R -40/+85°C EEPROM SO8 SMT	ST (F)# M24512-RMN6TG ST (F)# M24512-RMN6TP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1000	08-0275-4	T BSS84 P-Kanal 50V 130mA SOT23 SMT	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1002	09-2997	CRYS 8MHz 15pF-ppm-ppm@25°C 2,5x2,0x0,8mm SMT -40/+105°C	Epson: X1G004171001500 - SG-210STF 8.000000MHz L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7553	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	Vishay (F)# CRCW0402 1K00FKED YAGEO (F)# RC0402FR-071KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7513	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1004	01-4212	RES 5,1K 1% 0,063W 100ppm 0402 SMT	Vishay (F)# CRCW04025K10FKED YAGEO (F)# RC0402FR-075K1L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1006	01-2001	RES 2,2K 1% 0,063W 100ppm 0402 SMT	Vishay (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1007	01-2001	RES 2,2K 1% 0,063W 100ppm 0402 SMT	Vishay (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SV1000	03-4560	SL 2x7p 180° 1,27mm pitch SMT	SAMTEC (F)# FTSH-107-01-L-DV-K-P-TR	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
R7558	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	Vishay (F)# CRCW0402000Z0ED Vishay (F)# CRCW04020000Z5E D YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-13 0RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7559	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	Vishay (F)# CRCW0402000Z0ED Vishay (F)# CRCW04020000Z5E D YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-13 0RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7542	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	Vishay (F)# CRCW0402000Z0ED Vishay (F)# CRCW04020000Z5E D YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-13 0RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7543	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	Vishay (F)# CRCW0402000Z0ED Vishay (F)# CRCW04020000Z5E D YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-13 0RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7515	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104 YAGEO (F)# CC0402KRX7R8BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1004	07-1233-4	IC 74LVC1G17GW -40/+125°C SC70-5 SMT Buffer	Nexperia (F)# 74LVC1G17GW,125 Nexperia (F)# 74LVC1G17GW	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L7305	04-2684	FILT 600R@ 100MHz 200mA 0402 SMT	WÜRTH elcos (F)# 74279279	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Measuring System 1																			
T1000	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S T02 69AA 4p GS (F)# MB6S T02 69AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

B1.101	08-1108-1	GL M845 280V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S TO269AA 4p GS (F)# MB6S TO269AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1.100	02-1943	CAPE 47µF 20% 50V 8000h@105°C SMD-F SMT 19x20,5mm	NIPPON CHEMI (F)# EMLE500ADA470MHA0G	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1.101	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1.102	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1.103	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1.104	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1.105	02-7920	CAPC 1nF 10% 50V X7R 0402 SMT	Yageo (F)# CC0402KRX7R9BB102 Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1.106	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1.107	02-7920	CAPC 1nF 10% 50V X7R 0402 SMT	Yageo (F)# CC0402KRX7R9BB102 Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102	1	1	0	0	1	1	1	1	1	1	0	0	0	0
C1.107	02-1908-2	CAPC 2,2nF 5% 50V X7R 0402 SMT	Yageo (F)# CC0402JRX7R9BB222 KEMET# C0402C222J5RACTU AVX# 04025C222JAT2A Murata# GRM155R71H222JA01D	0	0	1	1	0	0	0	0	0	0	1	1	1	1
C1.108	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1.109	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1.110	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1.111	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1.100	08-0967	DIOZ BZX84-C4V7 4,7V 5mA SOT 23 SMT	PHILIPS (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7,215	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1.100	11-7911	IC STPMS1 -40/+85°C DFN16 SMT Smart Sensor	ST (F)# STPMS1BPQR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1.101	11-8919	IC BU4832 -40/+125°C SSOP5 SMT Voltage Monitor	ROHM (F)# BU4832G-TR ROHM (F)# BU4832GTR	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.101	01-0020	RESV 460V 8kA Z RM10 THT	EPCOS (F)# B72220-S461-K502V58 EPCOS (F)# B72220-S461-K502V87 EPCOS (F)# B72220S461K502V87 EPCOS (F)# B72220S0461K502 EPCOS (F)# B72220S461K502	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.102	01-1985	RES 5,6K 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)# CRCW1206K60FKTABC ASJ (F)# CR32-5601-FL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.102	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VITROHM (F)# 2C 0204 FKE 07 1k0 Vishay-BCcomp (F)# MMA0204-50 1K0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.103	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM0204C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.104	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM0204C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.105	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM0204C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000	1	1	1	1	1	1	1	1	1	1	1	1	1	1

R1.106	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.107	01-1995	RES 47K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040247K0FKEA YAGEO (F)# RC0402FR-0747KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.108	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200000ED VISHAY (F)# CRCW040200000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.109	01-1727-1	RES 270R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204-50 1% BL 270R VISHAY (F)# MMA02040C2700FB300 YAGEO (F)# ZC0204FKE0727 0R VISHAY (F)# SMM02040C2700FB000 Welwyn: WRM0204HPC-270RFT3	nur für 230V	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
R1.109	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VITROHM (F)# ZC 0204 FKE 07 1k0 Vishay-BCcom (F)# MMA0204-50 1K0 Vishay-Beysc (F)# MMA020450 1K0 1%B3 e3	nur für 58V	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
R1.109	01-1122-2	RES 475R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM020450 475R 1%B3 e3 Vishay-Beysc (F)# SMM020450 475R 1%B3 e3 Draloric (F)# SMM020450 475R 1%B3 e3	nur für 127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.110	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW040210R0FKED YAGEO (F)# RC0402FR-0710ORL		1	1	0	1	1	1	1	1	1	1	1	0	0	0	0
R1.110	01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT	Dale (F)# CRCW040220R0FKED Yageo-Phycom (F)# RC0402FR-07220RL		0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
R1.111	01-6569	RES 2,2M 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 100 2M2 1% ET1 e3 VISHAY (F)# CRCW12062M20FKEA Yageo-Phycom (F)# RC1206FR-072M2L		1	1	0	0	1	1	1	1	1	1	1	0	0	0	0
R1.112	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.113	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.114	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.115	01-3586-1	RES 0 R x% 1W 200ppm 2512 SMT	YAGEO (F)# RC25 12JK-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.116	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200000ED VISHAY (F)# CRCW040200000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		1	1	0	0	1	1	1	1	1	1	0	0	0	0	0
R1.117	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200000ED VISHAY (F)# CRCW040200000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		0	0	1	1	0	0	0	0	0	0	1	1	1	1	1
R1.119	01-1118	RES 33,2R 1% 0,25W 50ppm Minimelf SMT	Draloric (F)# SMM0204 50 33R2 1% B0 e3 Draloric (F)# SMM0204 50 33R2 1% B3 e3	CT / nur 1(6)A	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1
R1.119	01-1117	RES 10R 1% 0,25W 50ppm Minimelf SMT	VISHAY (B)# MMA0204C1009FB300 VISHAY (B)# SMM0204 50 10R 1% B3 e3 KOA (GB)# RN1/2CTTE10R0B50	CT / nur oder 5(20)A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.119	01-5326	RES 12R 1% 0,25W 50ppm Minimelf SMT	VISHAY (B)# MMA0204C1209FB300 VISHAY (B)# MMA0204C1209FB300 VISHAY (B)# SMM0204 50 12R 1% B3 e3 KOA (GB)# RN1/2CTTE12R0B50	CT / nur 5(15)A von 10R auf 12R geändert	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
R1.120	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200000ED VISHAY (F)# CRCW040200000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.121	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200000ED VISHAY (F)# CRCW040200000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		0	0	1	1	0	0	0	0	0	0	1	1	1	1	1
R1.122	01-6569	RES 2,2M 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 100 2M2 1% ET1 e3 VISHAY (F)# CRCW12062M20FKEA Yageo-Phycom (F)# RC1206FR-072M2L		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.123	01-3586-1	RES 0 R x% 1W 200ppm 2512 SMT	YAGEO (F)# RC25 12JK-070RL	L1-N Module Power	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
R1.125	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200000ED VISHAY (F)# CRCW040200000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.127	01-1985	RES 5,6K 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)# CRCW1265K60FKTABC ASJ (GB)# C832-5601-FL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.127	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VITROHM (F)# ZC 0204 FKE 07 1k0 Vishay-BCcom (F)# MMA0204-50 1K0 Vishay-Beysc (F)# MMA020450 1K0 1%B3 e3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1100	04-3102-abc	Hahn: Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07VA Sek2 11V 0.55VA	Hahn (F)# V18274 LA3002782	230V	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
	04-7069-abc	Myrra: 28889 ta 70/B Sek1: 16,5V/0,3VA Sek2: 19V/2,3VA	Myrra 28889 LA3003997																
	04-7530	Hahn V22757: Sek1 9. 5V 0.07VA	Hahn V22757 LA3003998																

TR1100	04-3400-abc	Trafo A1140 EI 30/15,5 127V/11V PINS 1-3/4-5/7-9	Hahn (F)# V19048	127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1100	04-3401-abc	Trafo/Übertrag. 30/15. 58V 9.5/11V -	Hahn (F)# V18552	58V	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TR1100	04-5500-abc	TRAN Pr-230/Sec-11/11 V21246 32.8x27.8x34.3 THT	Hahn GmbH (F)# V21246	133..230V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1101	04-3049	COIL 110H 30% 115R 6A 24.5x12.3x28.8mm THT	VAC (F)# T60404-E4622-X501(Index 82)		0	0	1	1	0	0	0	0	0	0	1	1	1	1
V1100	08-1097	T BCX70H NPN 45V 100mA SOT23 SMT	INFINEON (F)# BCX70H E6327 INFINEON (F)# BCX70H E6327 INFINEON (F)# SP000010550		1	1	1	1	1	1	1	1	1	1	1	1	1	1
X1100	05-3333	KL 1p 90° RM3.5 THT	RIACON (F)# 360410 ohne Drahtschutz		1	1	1	1	1	1	1	0	0	0	1	0	0	1
X1101	05-4686	Befestigungselement Feder 5x3x4mm SMT	KITAGAWA (F)# OG-503040		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1112	02-7058	CAPC 2.2n 5% 1kV X7R 1206	Kemet (F)# C1206C223JDRACTU Syfer 1206Y1K0D223JXT		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1113	02-7058	CAPC 2.2n 5% 1kV X7R 1206	Kemet (F)# C1206C223JDRACTU Syfer 1206Y1K0D223JXT		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Measuring System 2																			
B1200	08-1108-1	GL MB4S 2.80V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S TQ269AA 4p GS (F)# MB6S TQ269AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001		1	1	1	1	1	1	1	1	1	1	1	1	1	1
B1201	08-1108-1	GL MB4S 2.80V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S TQ269AA 4p GS (F)# MB6S TQ269AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1200	02-1943	CAPE 47µF 20% 50V 8000h@105°C SMD-F SMT 19x20,5mm	NIPPON CHEMI (F)# EMLE500ADA470MHA0G		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1201	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1202	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1203	02-1887	CAPC 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1204	02-1887	CAPC 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1205	02-7920	CAPC 1nF 10% 50V X7R 0402 SMT	Yageo (F)# CC0402KRX7R9BB102 Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1206	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1207	02-7920	CAPC 1nF 10% 50V X7R 0402 SMT	Yageo (F)# CC0402KRX7R9BB102 Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1208	02-1887	CAPC 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1209	02-1887	CAPC 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1210	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1211	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1200	08-0967	DIOZ BZX84-C4V7 4,7V 5mA SOT23 SMT	PHILIPS (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7,215		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1200	11-7911	IC STPMS1 -40/+85°C DFN16 SMT Smart Sensor	ST (F)# STPMS1BPQR		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1201	11-8919	IC BU4832 -40/+125°C SSOP5 SMT Voltage Monitor	ROHM (F)# BU4832G-TR ROHM (F)# BU4832GTR		1	1	1	1	1	1	1	1	1	1	1	1	1	1
L1201	04-0020	RESV 460V 8kA Z RM10 THT	EPCOS (F)# B722.20-S461-K502V58 EPCOS (F)# B722.20-S461-K502V87 EPCOS (F)# B722.205 461K502V87 EPCOS (F)# B722.20S0461K502 EPCOS (F)# B722.20S461K502		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1202	01-1985	RES 5,6K 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)# CRCW1206K60FKTABC ASJ (F)# CR32-5601-F1		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1203	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VITROHM (F)# ZC 0204 FKE 07 1k0 Vishay-BCcom (F)# MMA0204-50 1K0 Vishay-Beyschlag (F)# MMA0204-50 1K0		0	0	0	0	0	0	0	0	0	0	0	0	0	0

R1.203	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.204	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.205	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.206	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.207	01-1995	RES 47K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040247K0FKEA YAGEO (F)# RC0402FR-0747KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.208	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.209	01-1727-1	RES 270R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204-50 1% BL 270R VISHAY (F)# MMA02040C2700FB300 YAGEO (F)# ZC0204FKE0727 0R VISHAY (F)# SMM0240C2700FB000	nur für 230V	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1
R1.209	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VITROHM (F)# ZC 0204 FKE 07 1k0 Vishay-BCcom (F)# MMA0204-50 1K0 Vishay-Beysc (F)# MMA0204-50 1K0	nur für 58V	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
R1.209	01-1122-2	RES 475R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM020450 475R 1%B3 e3 Vishay-Beysc (F)# SMM020450 475R 1%B3 e3 Draloric (F)# SMM020450 475R 1%B3 e3	nur für 127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.210	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW040210R0FKED YAGEO (F)# RC0402FR-07100RL		1	1	0	1	1	1	1	1	1	1	1	0	0	0	0
R1.210	01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT	Dale (F)# CRCW0402220RFKED Yageo-Phycom (F)# RC0402FR-07220RL		0	0	1	0	0	0	0	0	0	0	0	1	1	1	1
R1.211	01-6569	RES 2,2M 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 100 2M2 1% ET1 e3 VISHAY (F)# CRCW12062M20FKEA Yageo-Phycom (F)# RC1206FR-072M2L		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.212	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00 FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.213	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00 FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.214	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00 FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.215	01w1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.216	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		1	1	0	0	1	1	1	1	1	1	0	0	0	0	0
R1.217	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL		0	0	1	1	0	0	0	0	0	0	1	1	1	1	1
R1.219	01-1118	RES 3,3R 1% 0,25W 50ppm Minimelf SMT	Draloric (F)# SMM 0204 50 3R3 2 1% B0 e3 Draloric (F)# SMM0204 50 33R2 1% B3 e3	CT / nur 1(6)A	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1
R1.219	01-1117	RES 10R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA02040C1009FB300 VISHAY (B)# MMA0204C1009FB300 VISHAY (B)# SMM0204 50 10R 1% B3 e3 KOA (GB)# RN73ESZTTE10R0F50	CT / nur 5(20)A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1.219	01-5326	RES 12R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA02040C1209FB300 VISHAY (B)# MMA0204C1209FB300 VISHAY (B)# SMM0204 50 12R 1% B3 e3 KOA (GB)# RN73ESZTTE10R0F50	CT / nur 5(15)A von 10R auf 12R geändert	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
R1.220	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1.221	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL		0	0	1	1	0	0	0	0	0	0	1	1	1	1	1
R1.222	01-6569	RES 2,2M 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 100 2M2 1% ET1 e3 VISHAY (F)# CRCW12062M20FKEA Yageo-Phycom (F)# RC1206FR-072M2L		1	1	0	0	1	1	1	1	1	1	0	0	0	0	0

R1226	01-1985	RES 5,6K 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 BC 5K60 FK 100 1% VISHAY (F)# CRCW1206K60FKTABC ASUS (F)# CR32-5601-FJ		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1226	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50-BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% 83 e3 VITROHM (F)# ZC 0204 FKE 07 1k0 Vishay-BCcom (F)# MMA0204-50 1K0 Vishay-Dale (F)# MMA0204 50 1K0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1200	04-3102-abc	Hahn: Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07VA Sek2 11V 0.55VA	Hahn (F)# V18274 LA3002782	230V	1	1	1	0	1	1	1	1	1	1	1	1	1	1
	04-7069-abc	Myrra: 28889 ta 70/B Sek1: 16,5 V/0,3 VA Sek2: 19V/2,3VA	Myrra 28889 LA3003997															
	04-7530	Hahn V22757: Sek1 9,5V 0.07VA	Hahn V22757 LA3003998															
TR1200	04-3400-abc	Trafo A1140 EI 30/15,5 127V/11V PINS 1-3/4-5/7-9 ta 70°C /B	Hahn (F)# V19048	127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1200	04-3401-abc	Trafo/Übertrag. 30/15. 58V 9,5/11V -	Hahn (F)# V18552	58V	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TR1200	04-5500-abc	TRAN Pr 230/Sec-11/11 V21246 32,9x27,9x34,3 THT	Hahn GmbH (F)# V21246	133..230V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1201	04-3049	COIL 110H 30% 115R 6A 24,5x12,7x24,8mm THT	VAC (F)# T60404-E4622-X501(Index B2)		0	0	1	1	0	0	0	0	0	0	0	1	1	1	1
V1200	08-1097	T BCX70H NPN 45V 100mA SOT23 SMT	INFINEON (F)# BCX70H E6327 INFINEON (F)# BCX70H E6327 INFINEON (F)# SP000010550		1	1	1	1	1	1	1	1	1	1	1	1	1	1
X1200	05-3333	KL 1p 90° RM3,5 THT	RACON (F)# 360410 ohne Drahtschutz		1	1	1	1	1	1	1	1	0	0	0	1	0	0	1
C1212	02-7058	CAPC 2,2n 5% 1kV X7R 1206	Kemet (F)# C1206C223JDRACTUx Syfer 1206Y1K00223JXT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1213	02-7058	CAPC 2,2n 5% 1kV X7R 1206	Kemet (F)# C1206C223JDRACTUx Syfer 1206Y1K00223JXT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Measuring System 3																			
B1300	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S TO269AA 4p GS (F)# MB6S TO269AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001 PANJIT (F)# B6S_R2_10001		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
B1301	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S TO269AA 4p GS (F)# MB6S TO269AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001 PANJIT (F)# B6S_R2_10001		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1300	02-1943	CAPE 47µF 20% 50V 8000h@105°C SMD-F SMT 19x20,5mm	NIPPON CHEMI (F)# EMLE500ADA470MHA0G		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1301	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105B1104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1302	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1303	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1304	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1305	02-7920	CAPC 1nF 10% 50V X7R 0402 SMT	Yageo (F)# CC0402KRX7R9BB102 Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1306	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1307	02-7920	CAPC 1nF 10% 50V X7R 0402 SMT	Yageo (F)# CC0402KRX7R9BB102 Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1308	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1309	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1310	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1311	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1300	08-0967	DIOZ BZX84-C4V7 4,7V 5mA SOT23 SMT	PHILIPS (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7 NXP (F)# BZX84-C4V7,215		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1300	11-7911	IC ST PMS1 -40/+85°C QFN16 SMT Smart Sensor	ST (F)# ST PMS1BPQR		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

IC1301	11-8919	IC BU4832 -40/+125°C SSOP5 SMT Voltage Monitor	ROHM (F)# BU4832G-TR ROHM (F)# BU4832GTR		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1301	01-0020	RESV 460V 8kA Z RM10 THT	EPCOS (F)# B72220-S461-K502V58 EPCOS (F)# B72220-S461-K502V87 EPCOS (F)# B72220S461K502V87 EPCOS (F)# B72220S461K502 EPCOS (F)# B72220S461K502		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1302	01-1985	RES 5,6K 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)# CRCW1206K60FKTABC ASJ (F)# CR32-5601-FL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1302	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VITROHM (F)# ZC 0204 FKE 07 1k0 Vishay-BCcom (F)# MMA0204-50 1K0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1303	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1304	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1305	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1306	01-1132	RES 150K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 150K 1% B0 e3 VISHAY (F)# SMM0204-MS1 50 150K 1%B3 VISHAY (F)# SMM02040C1503FB000 VISHAY (F)# SMM020450 150K 1%B3 Vishay-Beysc (F)# SMM020450 150K 1%B3 Vishay # MMA02040C1503FB300 Vishay # MMA02040C1503FB000		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1307	01-1995	RES 47K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040247K0FKEA YAGEO (F)# RC0402FR-0747KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1308	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW040200002SE0 YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-13R0L		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1309	01-1727-1	RES 270R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204-50 1% BL 270R VISHAY (F)# MMA02040C2700FB300 YAGEO (F)# ZC0204FKE07270R VISHAY (F)# SMM0240C2700FB000 Welwyn: WRM0204HPC-270RFT3	nur für 230V	1	1	1	0	1	1	1	1	1	1	1	1	1	1
R1309	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VITROHM (F)# ZC 0204 FKE 07 1k0 Vishay-BCcom (F)# MMA0204-50 1K0	nur für 58V	0	0	0	1	0	0	0	0	0	0	0	0	0	0
R1309	01-1122-2	RES 475R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM020450 475R 1%B3 e3 Vishay-Beysc (F)# SMM020450 475R 1%B3 e3 Draloric (F)# SMM020450 475R 1%B3 e3	nur für 127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1310	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW040210R0FKED YAGEO (F)# RC0402FR-07100RL		1	1	0	1	1	1	1	1	1	1	0	0	0	0
R1310	01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT	Dale (F)# CRCW0402220RFKED Yageo-Phycom (F)# RC0402FR-07220RL		0	0	1	0	0	0	0	0	0	0	1	1	1	1
R1311	01-6569	RES 2,2M 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 100 2M2 1% ET1 e3 VISHAY (F)# CRCW12062M20FKEA Yageo-Phycom (F)# RC1206FR-072M2L		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1312	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1313	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1314	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1315	01-w1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW040200002SE0 YAGEO (F)# RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1316	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW040200002SE0 YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-13R0L		1	1	0	0	1	1	1	1	1	1	0	0	0	0
R1317	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW040200002SE0 YAGEO (F)# RC0402JR-070RL		0	0	1	1	0	0	0	0	0	0	1	1	1	1
R1319	01-1118	RES 33,2R 1% 0,25W 50ppm Minimelf SMT	Draloric (F)# SMM0204 50 33R2 1% B0 e3 Draloric (F)# SMM0204 50 33R2 1% B3 e3	CT / nur 1(6)A	0	0	1	1	0	0	0	0	0	0	1	0	0	1

R1319	01-1117	RES 10R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA02040C1009FB300 VISHAY (B)# MMA0204C1009FB300 VISHAY (B)# SMM0204 50 10R 1% B3 e3	CT / nur 5(15)A oder 5(20)A	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1319	01-5326	RES 12R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA02040C1209FB300 VISHAY (B)# MMA0204C1209FB300 VISHAY (B)# SMM0204 50 12R 1% B3 e3	CT / nur 5(15)A von 10R auf 12R geändert	0	0	0	0	0	0	0	0	0	0	0	1	1	0
R1320	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04020000ZSED VISHAY (F)# CRCW040200002SED YAGEO (F)# RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1321	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04020000ZED VISHAY (F)# CRCW040200002SED		0	0	1	1	0	0	0	0	0	0	1	1	1	1
R1322	01-6569	RES 2,2M 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 100 2M2 1% ET1 e3 VISHAY (F)# CRCW12062M20FKEA		1	1	0	0	1	1	1	1	1	1	0	0	0	0
R1326	01-1985	RES 5,6K 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 BC 5K60 TK 100 1% VISHAY (F)# CRCW12065K60FKTABC		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1326	01-1124	RES 1K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA0204-50 BL 1% 1K0 VISHAY (F)# SMM0204 50 1K0 1% B3 e3 VITROHM (F)# ZC 0204 FKE 07 1k0 Vishay-BCcom (F)# MMA0204-50 1K0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1300	04-3102-abc	Hahn: Trafo A1140 EI 30/15,5 V18274 Sek1 9,5V 0.07VA Sek2 11V 0.55VA	Hahn (F)# V18274 LA3002782	230V	1	1	1	0	1	1	1	1	1	1	1	1	1	1
	04-7069-abc	Myrra: 28889 ta 70/B Sek1: 16,5V/0,3VA Sek2: 19V/2,3VA	Myrra 28889 LA3003997															
	04-7530	Hahn V22757: Sek1 9.5V 0.07VA	Hahn V22757 LA3003998															
TR1300	04-3400-abc	Trafo A1140 EI 30/15,5 127V/11V PINS 1-3/4-5/7-9	Hahn (F)# V19048	127V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1300	04-3401-abc	Trafo/Übertrag. 30/15. 58V 9,5/11V	Hahn (F)# V18552	58V	0	0	0	1	0	0	0	0	0	0	0	0	0	0
TR1300	04-5500-abc	TRAN Pr 230/Sec 11/11 V21246 32,8x27,8x34,3 THT	Hahn GmbH (F)# V21246	133..230V	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TR1301	04-3049	COIL 1 10H 30% 1.15R 6A 24.5x12.3x28.8mm THT	VAC (F)# T60404-E4622-X501(Index 82)		0	0	1	1	0	0	0	0	0	0	1	1	1	1
V1300	08-1097	T BCX70H NPN 45V 100mA SOT23 SMT	INFINEON (F)# BCX70H E6327 INFINEON (F)# BCX70H6327		1	1	1	1	1	1	1	1	1	1	1	1	1	1
X1300	05-3333	KL 1p 90° RM3.5 THT	RIACON (F)# 360410 ohne Drahtschutz		1	1	1	1	1	1	1	0	0	0	1	0	0	1
X1301	05-4686	Befestigungselement Feder 5x3x4mm SMT	KITAGAWA (F)# OG-503040		1	1	1	1	1	1	1	1	1	1	1	1	1	1
X1302	05-3333	KL 1p 90° RM3.5 THT	RIACON (F)# 360410 ohne Drahtschutz		1	1	1	1	1	1	1	0	0	0	1	0	0	1
C1312	02-7058	CAPC 2.2n 5% 1kV X7R 1206	Kemet (F)# C1206C223JDRACTUx Syfer 1206Y1K00223JXT		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1313	02-7058	CAPC 2.2n 5% 1kV X7R 1206	Kemet (F)# C1206C223JDRACTUx Syfer 1206Y1K00223JXT		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calculator and Isolation																		
C1500	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1501	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1502	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1503	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1504	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1505	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1506	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1507	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1500	11-7910	IC STPMC1 -40/+85°C TSSOP20 SMT Strom-/Leistungsmessung	ST (F)# STPMC1BTR		1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK1500	07-7028	IC Si8622BT-IS -40/+125°C SO16 SMT Digital Isolator	Silicon Labo F# Si8622BT-ISR Silicon Labo F# Si8622BT-IS		1	1	1	1	1	1	1	1	1	1	1	1	1	1

OK1501	07-7028	IC Si8622BT-IS -40/+125°C SO16 SMT Diaitial Isolator	Silicon Labo F# Si8622BT-ISR Silicon Labo F# Si8622BT-IS		1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK1502	07-7028	IC Si8622BT-IS -40/+125°C SO16 SMT Diaitial Isolator	Silicon Labo F# Si8622BT-ISR Silicon Labo F# Si8622BT-IS		1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK1500	08-5686	IC ISO7521EDWR -40/+105°C SO16 SMT Diaitial Isolator	TEXAS (F)# ISO7521EDWR		0	0	0	0	0	0	0	0	0	0	0	0	0	0
OK1501	08-5686	IC ISO7521EDWR -40/+105°C SO16 SMT Diaitial Isolator	TEXAS (F)# ISO7521EDWR		0	0	0	0	0	0	0	0	0	0	0	0	0	0
OK1502	08-5686	IC ISO7521EDWR -40/+105°C SO16 SMT Diaitial Isolator	TEXAS (F)# ISO7521EDWR		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1501	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1502	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1503	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7552	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00FKED YAGEO (F)# RC0402FR-071KL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1504	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1505	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1506	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1508	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1509	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1510	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D1500	06-3655	IC 74LVC1G04 -40/+125°C SOT 753 SMT Single Inverter	Nexperia (F)# 74LVC1G04GV Nexperia (F)# 74LVC1G04GV.125		1	1	1	1	1	1	1	1	1	1	1	1	1	1
L7304	04-2684	FILT 600R@ 100Mhz 200mA 0402 SMT	WÜRTH elsos (F)# 74279279		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1511	02-3238	CAPC 100nF 10% 25V X5R 0402 SMT	KEMET (F)# C0402C104K3PAC TAIYO YUDEN (F)# TMK105BJ104KV-F AVX (F)# 04023D104KAT2A		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7512	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R8BB104		0	0	0	0	0	0	0	0	0	0	0	0	0	0
LCD-Display																			
C1600	02-2451	CAPC 1µF 10% 25V X7R 0805 SMT	Murata (F)# GRM21BR71E105KA99L YAGEO (F)# CC0805KKX7R8BB105 TDK (F)# C2012X7R1E105K		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1601	02-3746	CAPC 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1602	02-3746	CAPC 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1603	02-3746	CAPC 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1604	02w1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D1600	08-0155	DIOZ BZV55C3V3 3,3V 250mA Minimelf SMT	PHILIPS (F)# BZV55C3V3 VISHAY (F)# TZMC3V3-GS08 NXP (F)# BZV55C3V3	use only with LCD1600 with LCM/E	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L1600	04-1300	COIL 100µH 10% 4,6R 100mA 3,2x2, 5x2,2mm SMT	OkeWoff # GWI1210-101K WÜRTH elsos (F)# 744032101C AMC # 6014v0903-1777		1	1	1	1	1	1	1	1	1	1	1	1	1	1
LCD1600-ASSY	25-3829	LCD Mount	Jasz Plastics LK6067-002-D	LK6067-002-D with new material PA66	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	05-9268-4	LCD-Display CTM10061-E - 1mA 65x39x2 7,5mm THT	Shantou Gowo (F)# CTM10061-E Shantou Gowo (F)# GWMS10061-LCM/E		1	1	1	1	1	1	1	1	1	1	1	1	1	1
	25-1987-abc	Diffusor Foil	GWMS10061-DISPERSION FOIL/D Rev:03 YHBL1613-5X0N0A	LK9066	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	21-1106	Assembly-Display LK0108002	GOWORLD:	use ONLY with BZV55C**3V3**	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LED1600	08-8136	LED weiss	OSRAM (F)#, GW JCLPS2.EM-H3H8-XXS3-1-65-2-R33 OSRAM (F)#, GW JCLPS2.EM-H3H8-A333-1-65-2-R33	Resistor R1601 = 220R	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LED1601	08-8136	LED weiss	OSRAM (F)#, GW JCLPS2.EM-H3H8-XXS3-1-65-2-R33 OSRAM (F)#, GW JCLPS2.EM-H3H8-A333-1-65-2-R33	Resistor R1602 = 220R	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LED1602	08-8136	LED weiss	OSRAM (F)#, GW JCLPS2.EM-H3H8-XXS3-1-65-2-R33 OSRAM (F)#, GW JCLPS2.EM-H3H8-A333-1-65-2-R33	Resistor R1603 = 220R	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1600	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1600	01-3627	RES 2,7K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP2701F YAGEO (F)# RC0402FR-072K7L		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1601	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT	VISHAY (F)# CRCW0603 220R F K TA YAGEO (F)# RC0603FR-0722ORL	changed from 0805 to 0603	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1602	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT	VISHAY (F)# CRCW0603 220R F K TA YAGEO (F)# RC0603FR-0722ORL	changed from 0805 to 0603	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1603	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT	VISHAY (F)# CRCW0603 220R F K TA YAGEO (F)# RC0603FR-0722ORL	changed from 0805 to 0603	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1604	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 10O0 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tamper Detection																			

C1700	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1740	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNPO9BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC1700	11-7114	Hall-Sensor AH1808-WG-7 -40/+85 SOT23 SMT	DIODES (F)# AH1808-WG-7 DIODES (F)# AH180-WG-7 (obsolete)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1700	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S1720	05-3455	Taster 1-fach 180° 2,54mm pitch SMT	ITT (F)# KSC401G 50SH LFS C&K (F)# KSC401G 50SH LFS C&K (F)# PTS620 GS18K SMTR LFS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S1750	05-3455	Taster 1-fach 180° 2,54mm pitch SMT	ITT (F)# KSC401G 50SH LFS C&K (F)# KSC401G 50SH LFS C&K (F)# PTS620 GS18K SMTR LFS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7532	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7533	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7524	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7006	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7526	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G2001	09-2994	CRYS 16MHz 10pF 30ppm 2,0x1,6mm SMT 30ppm@25°C -40/+85°C	Epson (F)# Q22FA1280051300 Epson (F)# Q22FA1280051301	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7504	02-2308	CAPC 3,3pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# CC0402JRNP09BN330	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7505	02-2308	CAPC 3,3pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# CC0402JRNP09BN330	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7530	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7508	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pushbuttons and RTC																			
C1800	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1801	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1802	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
JP1800	03-0088	SL 2p 180° RM2.54 THT	TOP (F)# 7000-1X2SG	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1800	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1801	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S1800	05-3455	Taster 1-fach 180° 2,54mm pitch SMT	ITT (F)# KSC401G 50SH LFS C&K (F)# KSC401G 50SH LFS C&K (F)# PTS620 GS18K SMTR LFS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S1801	05-3455	Taster 1-fach 180° 2,54mm pitch SMT	ITT (F)# KSC401G 50SH LFS C&K (F)# KSC401G 50SH LFS C&K (F)# PTS620 GS18K SMTR LFS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7016	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7548	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1001	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JRNP09BN100 Yageo-Phycom (F)# 2238-869-15109	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1002	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JRNP09BN100 Yageo-Phycom (F)# 2238-869-15109	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q1001	09-2025	CRYS 32,768kHz 12,5pF -ppm 7x1,5x1,4mm SMT 20ppm@25°C -40/+85°C	SEIKO (F)# SSP-T7-F SEIKO (F)# SSP-T7-FK20ppm,12,5pF Epson # Q13MC1461000200	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1000	01-1907	RES 10M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-0710ML Yageo-Phycom (F)# RC0402FR-0710ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1001	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7009	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1

C7514	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L7306	04-2684	FILT 600R@ 100MHz 200mA 0402 SMT	WÜRTH elsos (F)# 74279279	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7556	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U1	07-7975-1	IC ST M8L151F3P6 -40/+85°C TSSOP-20 SMT Ultra Low 8-Bit MCU	ST (F)# ST M8L151F3P6TR ST (F)# ST M8L151F3P6	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7017	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7554	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7555	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7544	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7013	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7546	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7547	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7014	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7545	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7549	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7015	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7550	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7534	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7535	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7536	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7537	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FIKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7009	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V7010	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7538	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000 Z0ED VISHAY (F)# CRCW0402 0000 Z5ED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7539	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000 Z0ED VISHAY (F)# CRCW0402 0000 Z5ED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
G1500	09-2997	CRYS 8MHz 15pF -ppm -ppm@25°C 2,5x2,0x0,8mm SMT -40/+105°C	Epson: X1G004171001500 - SG-2105TF 8.000000MHz L	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7561	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000 Z0ED VISHAY (F)# CRCW0402 0000 Z5ED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Load without power																			
R7528	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7007	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7529	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7008	08-0275-4	T BSS84 P-Kanal 50V 130mA SOT23 SMT	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	1	1	1	1	1	1	1	1	1	1	1	1	1	1
L7301	04-7510	COIL 4,7µH 20% 11mR 1,1A 1008 SMT	Murata (F)# LQM2HPN4R7MG0L	1	1	1	1	1	1	1	1	1	1	1	1	1	1

C7506	02-5472	CAPC 2,2µF 20% 6,3V X5R 0603 SMT	Murata# GRM188R60J226MEA0D TDK# C1608X5R0J226M080AC	1	1	1	1	1	1	1	1	1	1	1	1	1	1
U2	07-7981		TPS61261	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7531	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7525				0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7527	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200R0ED VISHAY (F)# CRCW040200R0ESED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7005	08-3838	DIO RB751V40 40V 30mA uni SOD323 SMT	RB751V40T1-G	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7507	02-5472	CAPC 2,2µF 20% 6,3V X5R 0603 SMT	Murata# GRM188R60J226MEA0D TDK# C1608X5R0J226M080AC	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pulsing LEDs																			
C1900	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C1901	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	1	1	1	0	0	0	1	1	1	1	0	1	1	1
LED1900	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm	Kingbright (F)# KPTL-3216SURCK APEX (F)# RY-SP350LIH R2 4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LED1901	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm	Kingbright (F)# KPTL-3216SURCK APEX (F)# RY-SP350LIH R2 4	1	1	1	0	0	0	1	1	1	1	0	1	1	1
Q1900	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	1	1	1	0	0	0	1	1	1	1	0	1	1	1
R1900	01-0648	RES 330R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-3300-FK YAGEO (F)# RC0603FR-07330RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R1901	01-0648	RES 330R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-3300-FK YAGEO (F)# RC0603FR-07330RL	1	1	1	0	0	0	1	1	1	1	0	1	1	1
R1902	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DLMS Converter																			
C2002	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	1	0	1	0	0	0	0	0	1	0	0	1	0
C2003	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	1	0	1	0	0	0	0	0	1	0	0	1	0
C2004	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	1	0	1	0	0	0	0	0	1	0	0	1	0
C2005	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	1	0	1	0	0	0	0	0	1	0	0	1	0
C2006	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	1	0	1	0	0	0	0	0	1	0	0	1	0
C2007	02-2727	CAPC 4,7µF 10% 25V X5R 0805 SMT	Murata (F)# GRM21BR61E475KA12K Murata (F)# GRM21BR61E475KA12L Samsung # CL21A475KAQNNNG Samsung # CL21A475KAQNNNE Yageo # CC0805KKX5R8BB475	0	1	0	1	0	0	0	0	0	1	0	0	1	0
C2008	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	1	0	1	0	0	0	0	0	1	0	0	1	0
D2000	08-3456	DIO BAS40-06 40V 120mA uni SOT23 SMT	Onsemi (F)# BAS40-06LT1G INFINEON (F)# BAS40-06 E6327 NXP (F)# BAS40-06 NXP (F)# BAS40-06,215 NXP (F)# BAS40-06,235	0	1	0	1	0	0	0	0	0	1	0	0	1	0
IC2000	11-0978	IC ST M32F101CBT6TR -40/+85°C LQFP48 SMT 32Bit ARM Mikrocontroller	ST (F)# ST M32F101CBT6 ST (F)# ST M32F101CBT6TR	0	1	0	1	0	0	0	0	0	1	0	0	1	0
Q2000	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2002	01-2002	RES 470R 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-07470RL ROYAL OHM (F)# 0402WGJ0471TCE	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R2004	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-071KL	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R2008	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-071KL	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R2011	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2012	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-071KL	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R2014	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-071KL	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R2000	01-0741-4	RESA 4x 2,2K 5% 0,063W 200ppm 1206 Array SMT	AVX (G)# AVX BI (F)# BCN164A2221F KOA (F)# CNJ14ATTD222J ASJ (F)# CR-164J2K2	0	1	0	1	0	0	0	0	0	1	0	0	1	0
SV2001	03-4830	SL 2x4p 180° 1,27mm pitch SMT	SAMTEC (F)# ASP-127005-01 SAMTEC (F)# FTS-104-01-F-DV-P-TR	0	1	0	1	0	0	0	0	0	1	0	0	1	0
Q2000	09-2997	CRYS 8MHz 15pF-ppm -ppm@25°C 2,5x2,0x0,8mm SMT -40/+105°C	Epson: X1G004171001500 - SG-210STF 8.000000MHz L	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R2020	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-071KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7511	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0

R7541	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7560	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Contactor																			
C3000	02-3653	CAPE 10mF 20% 16V 3000h@105°C RM7,5 THT 18x35,5mm	RUBYCON (A)# 16 YXA 10000 M-EFC 18x35.5 RUBYCON (A)# 16YXA10000MCE 18x35.5	0	1	0	0	0	1	0	0	1	1	0	0	0	0
D3000	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	0	1	0	0	0	1	0	0	1	1	0	0	0	0
D3001	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	0	1	0	0	0	1	0	0	1	1	0	0	0	0
D3002	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18	0	1	0	0	0	1	0	0	1	1	0	0	0	0
D3003	08-1122	DIOZ BZX84-C15 15V 200mA SOT23 SMT	PHILIPS (F)# BZX84-C15 NXP (F)# BZX84-C15	0	1	0	0	0	1	0	0	1	1	0	0	0	0
R3000	01-4325	RES 220K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402220KFKED YAGEO (F)# RC0402FR-07220KL	0	1	0	0	0	1	0	0	1	1	0	0	0	0
R3001	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL	0	1	0	0	0	1	0	0	1	1	0	0	0	0
R3002	01-0487	RES 10K 1% 0,1W 100ppm 0603 SMT KANRA NK SMT Test	ASJ (F)# CR16-1002-FK YAGEO (F)# RC0603FR-0710KL YAGEO (F)# RC0603FR-1010KL	0	1	0	0	0	1	0	0	1	1	0	0	0	0
R3003	01-0487	RES 10K 1% 0,1W 100ppm 0603 SMT KANRA NK SMT Test	ASJ (F)# CR16-1002-FK YAGEO (F)# RC0603FR-0710KL YAGEO (F)# RC0603FR-1010KL	0	1	0	0	0	1	0	0	1	1	0	0	0	0
SV3000	03-3062	SL 3p 180° RM2,5 THT	MOLEX (F)# 22-04-1031 Connecon (F)# 2431-2031	0	1	0	0	0	1	0	0	1	1	0	0	0	0
T3000	08-0331	T BCP54-16 NPN 45V 1A SOT223 SMT	PHILIPS (F)# BCP54-16 NXP (F)# BCP54-16	0	1	0	0	0	1	0	0	1	1	0	0	0	0
T3002	08-3668	T BSO615N N-Kanal 60V 2,6A SO8 SMT	INFINEON (F)# BSO615NG INFINEON (F)# SP000216316 OnSemi FDS9945	0	1	0	0	0	1	0	0	1	1	0	0	0	0
S0 Output 1																			
B4000	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S TO269AA 4p GS (F)# MB6S TO269AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	1	1	1	1	1	1	0	1	1	1	1	1	1
C4000	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yazeo-Phycom (F)# CC0402JRNP09BN101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C4001	02-4561-1	CAPC 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Capax# 0402X104K500SNT Murata# GRM155R71H104KE14D	1	1	1	1	1	1	1	0	1	1	1	1	1	1
C4002	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yazeo-Phycom (F)# CC0402JRNP09BN101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D4000	08-0554	DIOZ ZMY30-13 30V 2,5mA Melf SMT	VISHAY (F)# ZMY30 VISHAY (F)# ZMY30-GS08 SEMIKRON (F)# ZMY30	1	1	1	1	1	1	1	0	1	1	1	1	1	1
OK4000	08-4597	Optokoppler VO615A-4X009T 60mA 6,5x4,6x3,6mm SMT	VISHAY (F)# VO615A-4X009T	1	1	1	1	1	1	1	0	1	1	1	1	1	1
R4000	01-0187	RES 68R 1% 0,25W 100ppm 1206 SMT	VISHAY (F)# CRCW1206 68R0 FKEA ASJ (F)# CR32-68R0-FL	1	1	1	1	1	1	1	0	1	1	1	1	1	1
R4001	01-1994	RES 4,7K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-074K7L Dale (F)# CRCW04024K70FKED	1	1	1	1	1	1	1	0	1	1	1	1	1	1
R4003	01-0160	RES 0R -% 0,25W xppm 1206 SMT	YAGEO (F)# RC1206JR-070RL	1	1	1	1	1	1	1	0	1	1	1	1	1	1
R4002	01-0842	RES 68R 1% 0,125W 100ppm 0805 SMT	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	1	1	1	1	1	1	0	1	1	1	1	1	1
R4-4000	01-0741-4	RESA 4x 2,2K 5% 0,063W 200ppm 1206 Array SMT	AVX (G)# AVX BI (F)# BCN164A222J7 KOA (F)# CN1/4ATTD222J ASJ (F)# ASJ	1	1	1	1	1	1	1	0	1	1	1	1	1	1
T4000	08-1097	T BCX70H NPN 45V 100mA SOT23 SMT	INFINEON (F)# BCX70H E6327 INFINEON (F)# BCX70HE6327 INFINEON (F)# SP000010550	1	1	1	1	1	1	1	0	1	1	1	1	1	1
X4000	03-7550	KL 2x3p 90° RM5,08 THT	WIELAND (F)# 25.179.5353.0 Connectronics (F)# TFRI-187.2508.0706	1	1	1	1	1	1	1	1	1	1	1	1	1	1
S0 Output 2																			

B4100	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S TO269AA 4p GS (F)# MB6S TO269AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	0	1	1	0	0	0	0	0	0	1	1	1	0
C4100	02-1887	CAP C 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C4101	02-4561-1	CAP C 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Capax# 0402X104K500SNT Murata# GRM155R71H104KE14D	1	0	1	1	0	0	0	0	0	0	1	1	1	0
C4102	02-1887	CAP C 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D4100	08-0554	DIOZ ZMY30-13 30V 25mA Melf SMT	VISHAY (F)# ZMY30 VISHAY (F)# ZMY30-GS08 SEMIKRON (F)# ZMY30 Diotec (F)# ZMY30	1	0	1	1	0	0	0	0	0	0	1	1	1	0
OK4100	08-4597	Optokoppler VO615A-4X009T 60mA 6,5x4,6x3,6mm SMT	VISHAY (F)# VO615A-4X009T	1	0	1	1	0	0	0	0	0	0	1	1	1	0
R4100	01-0842	RES 68R 1% 0,125W 100ppm 0805 SMT	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	0	1	1	0	0	0	0	0	0	1	1	1	0
R4101	01-1994	RES 4,7K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-074K7L Dale (F)# CRCW04024K70FKED	1	0	1	1	0	0	0	0	0	0	1	1	1	0
R4102	01-0842	RES 68R 1% 0,125W 100ppm 0805 SMT	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	0	1	1	0	0	0	0	0	0	1	1	1	0
T4100	08-1097	T BCX70H NPN 45V 100mA SOT23 SMT	INFINEON (F)# BCX70H E6327 INFINEON (F)# BCX70H6 E6327 INFINEON (F)# SP000011050	1	0	1	1	0	0	0	0	0	0	1	1	1	0
50 Output 3																	
B4200	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	GS (F)# MB4S TO269AA 4p GS (F)# MB6S TO269AA 4p PANJIT (F)# B4S_R2_00001 PANJIT (F)# B4S_R2_10001	1	0	1	1	0	0	0	0	0	0	1	1	1	0
C4200	02-1887	CAP C 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C4201	02-4561-1	CAP C 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Capax# 0402X104K500SNT Murata# GRM155R71H104KE14D	1	0	1	1	0	0	0	0	0	0	1	1	1	0
C4202	02-1887	CAP C 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D4200	08-0554	DIOZ ZMY30-13 30V 25mA Melf SMT	VISHAY (F)# ZMY30 VISHAY (F)# ZMY30-GS08 SEMIKRON (F)# ZMY30 Diotec (F)# ZMY30	1	0	1	1	0	0	0	0	0	0	1	1	1	0
OK4200	08-4597	Optokoppler VO615A-4X009T 60mA 6,5x4,6x3,6mm SMT	VISHAY (F)# VO615A-4X009T	1	0	1	1	0	0	0	0	0	0	1	1	1	0
R4200	01-0842	RES 68R 1% 0,125W 100ppm 0805 SMT	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	0	1	1	0	0	0	0	0	0	1	1	1	0
R4201	01-1994	RES 4,7K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-074K7L Dale (F)# CRCW04024K70FKED	1	0	1	1	0	0	0	0	0	0	1	1	1	0
R4202	01-0842	RES 68R 1% 0,125W 100ppm 0805 SMT	ASJ (F)# CR21-68R0-FL YAGEO (F)# RC0805FR-0768RL	1	0	1	1	0	0	0	0	0	0	1	1	1	0
T4200	08-1097	T BCX70H NPN 45V 100mA SOT23 SMT	INFINEON (F)# BCX70H E6327 INFINEON (F)# BCX70H6 E6327 INFINEON (F)# SP000011050	1	0	1	1	0	0	0	0	0	0	1	1	1	0
230V Output																	
D4300	08-3595	DIO SMCJ 50CA 350V 2,6A bi DO214AB SMT	LITTELFUSE (B)# SMCJ350CA	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OK4300	11-2695	Optokoppler LH1540 50mA DIP6 SMT	VISHAY (F)# LH1540AABTR INFINEON (F)# LH1540AAB-TR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q4300	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	0	0	0	0	0	0	0	0	0	0	0	0	0	0
230V Input 1																	
C5000	02-2178	CAP C 1µF 10% 16V X5R 0603 SMT	TAIYO YUDEN (F)# EMK107B7105KA-T AVX (F)# 0603YD105KAT2A Murata (F)# GRM188R61C105KA12D Murata (F)# GRM188R61C105KA93D	1	0	1	0	1	1	0	0	0	0	0	0	0	0
D5000	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT	NXP (F)# BAS40-05 NXP (F)# BAS40-05.215	1	0	1	0	1	1	0	0	0	0	0	0	0	0
OK5000	08-4597	Optokoppler VO615A-4X009T 60mA 6,5x4,6x3,6mm SMT	VISHAY (F)# VO615A-4X009T	1	0	1	0	1	1	0	0	0	0	0	0	0	0
R5000	01-4442	RES 180K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-07180KL	1	0	1	0	1	1	0	0	0	0	0	0	0	0
R5001	01-0672	RES 2,2K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 1% B* 22K VISHAY (F)# MMA0204C2202FB000 VISHAY (F)# MMA0204C2202FB300 KOA (F)# RN41 2ES T TE* 2202 F 50 VISHAY (F)# SMM0204C2202FB000 Viking # CSRV0204FTDG2202	1	0	1	0	1	1	0	0	0	0	0	0	0	0
R5002	01-0672	RES 2,2K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 1% B* 22K VISHAY (F)# MMA0204C2202FB000 VISHAY (F)# MMA0204C2202FB300 KOA (F)# RN41 2ES T TE* 2202 F 50 VISHAY (F)# SMM0204C2202FB000	1	0	1	0	1	1	0	0	0	0	0	0	0	0

R5003	01-0672	RES 2.2K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 1% B* 22K VISHAY (F)# MMA02040C2202FB000 VISHAY (F)# MMA02040C2202FB300 KOA (F)# RN41 2ES T TE * 2202 F 50 VISHAY (F)# SMM02040C2202FB000		1	0	1	0	1	1	0	0	0	0	0	0	0	0
R5004	01-0672	RES 2.2K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 1% B* 22K VISHAY (F)# MMA02040C2202FB000 VISHAY (F)# MMA02040C2202FB300 KOA (F)# RN41 2ES T TE * 2202 F 50 VISHAY (F)# SMM02040C2202FB000 Welwyn: WRM0204HPC-22KFT3		1	0	1	0	1	1	0	0	0	0	0	0	0	0
R5005	01-1910	RES 1,5K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# RCA0402 1K50 FKED VISHAY (F)# RCA0402 1K50 FKTD YAGEO (F)# RC0402FR-071K5L		1	0	1	0	1	1	0	0	0	0	0	0	0	0
X5000	03-1237	KL 3p 90° RM5.08 THT	PHOENIX (F)# 1729131 Cixi Wanlie # WJ127-5.08-03P-140-00A		1	0	1	0	0	0	0	0	0	0	0	0	0	0
	24-2190	Male connector; with straight solder pins; 2-pole; pin spacing 5.08 mm / 0.2 in; Vertical PCB mounting; with	Wago # 231-332/001-000		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	24-2185	Cage Clamp; 3-pole; pin spacing 5,08 ;	Wago #236-103	Wago 45°	0	0	0	0	1	1	0	0	0	0	0	0	0	0
230V Input 2																		
C5100	02-2178	CAPC 1µF 10% 16V X5R 0603 SMT	TAIYO YUDEN (F)# EMK107B7105KA-T AVX (F)# 0603YD105KAT2A Murata (F)# GRM188R61C105KA12D Murata (F)# GRM188R61C105KA93D		1	0	1	0	0	0	0	0	0	0	0	0	0	0
OK5100	08w4597	Optokoppler VO615A-4X009T 60mA 6,5x4,6x3,6mm SMT	VISHAY (F)# VO615A-4X009T		1	0	1	0	0	0	0	0	0	0	0	0	0	0
R5100	01w4442	RES 180K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-07180KL		1	0	1	0	0	0	0	0	0	0	0	0	0	0
R5100	01w4067-1	RES 820R 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402820RFK *TD YAGEO (F)# RC0402FR-07820RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R5101	01w1910	RES 1,5K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# RCA0402 1K50 FKED VISHAY (F)# RCA0402 1K50 FKTD YAGEO (F)# RC0402FR-071K5L		1	0	1	0	0	0	0	0	0	0	0	0	0	0
R5102	01-0672	RES 2.2K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 1% B* 22K VISHAY (F)# MMA02040C2202FB000 VISHAY (F)# MMA02040C2202FB300 KOA (F)# RN41 2ES T TE * 2202 F 50 VISHAY (F)# SMM02040C2202FB000		1	0	1	0	0	0	0	0	0	0	0	0	0	0
R5103	01-0672	RES 2.2K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 1% B* 22K VISHAY (F)# MMA02040C2202FB000 VISHAY (F)# MMA02040C2202FB300 KOA (F)# RN41 2ES T TE * 2202 F 50 VISHAY (F)# SMM02040C2202FB000		1	0	1	0	0	0	0	0	0	0	0	0	0	0
R5104	01-0672	RES 2.2K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 1% B* 22K VISHAY (F)# MMA02040C2202FB000 VISHAY (F)# MMA02040C2202FB300 KOA (F)# RN41 2ES T TE * 2202 F 50 VISHAY (F)# SMM02040C2202FB000		1	0	1	0	0	0	0	0	0	0	0	0	0	0
R5105	01-0672	RES 2.2K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 1% B* 22K VISHAY (F)# MMA02040C2202FB000 VISHAY (F)# MMA02040C2202FB300 KOA (F)# RN41 2ES T TE * 2202 F 50 VISHAY (F)# SMM02040C2202FB000		1	0	1	0	0	0	0	0	0	0	0	0	0	0
R5106	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL		1	0	1	0	0	0	0	0	0	0	0	0	0	0
IO-Board																		
C6000	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C6001	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1

C6002	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C6003	02-3746	CAPC 100nF 10% 10V X7R 0603 SMT	Holystone (F)# C0603X104K010TX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C6004	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C6005	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R6000	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R6001	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW04020000Z5ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-13R8L	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R6002	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW04020000Z5ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R6003	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW04020000Z5ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R6004	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW04020000Z5ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R6005	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW04020000Z5ED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R6006	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000Z0ED VISHAY (F)# CRCW04020000Z5ED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R6007	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R6008	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R6009	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SV6000	03-7909	SSL 2x6p 180° RM2.54 THT	SAMTEC (F)# DW-06-11-F-D-495 CONNECTRONICS (F)# A25424-1201A8 .20/2.80/12.60	1	0	0	0	0	0	1	0	0	0	0	0	0	1
SV6001	03-7908	SSL 2x4p 180° RM2.54 THT	SAMTEC (F)# DW-04-11-F-D-495 CONNECTRONICS (F)# A25424-0801A8 .20/2.80/12.60	0	1	1	1	1	1	0	0	1	1	1	1	1	0
RS485																			
C7001	02-4561-1	CAPC 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Capax# 0402X104K500SNT Murata# GRM155R71H104KE14D	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7002	02-1887	CAPC 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7003	02-1887	CAPC 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7004	02-1887	CAPC 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7005	02-1887	CAPC 100pF 5% 50V NP0 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yageo-Phycom (F)# CC0402JRNP09BN101	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7006	02-1906	CAPC 220pF 5% 50V X7R 0402 SMT	AVX (F)# 04025C221JAT2A KYOCERA (F)# (CM)05X7R221J50AH Yageo # CC0402KRX7R8BB221	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7007	02-1906	CAPC 220pF 5% 50V X7R 0402 SMT	AVX (F)# 04025C221JAT2A KYOCERA (F)# (CM)05X7R221J50AH Yageo # CC0402KRX7R8BB221	0	0	0	0	0	0	0	0	0	0	0	0	0	0
V6000	08-1153	D ZMY12 Melf Z-Diode 1.2V 60mA 1W -55/+175°C	VISHAY (F)# ZMY12-GS08;	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7001	08-1153	D ZMY12 Melf Z-Diode 1.2V 60mA 1W -55/+175°C	VISHAY (F)# ZMY12-GS08;	1	1	1	1	1	1	1	1	1	1	1	1	1	1
V7002	08-8161	DIOZ ZMY7V5 7,5V 100mA	VISHAY (F)# ZMY7V5-GS08	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7001	08-3578	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	ST (F)# SM2T6V8A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7002	08-3578	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	ST (F)# SM2T6V8A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7003	08-3578	DIO SM2T6V8A 6,8V 25A uni DO216AA SMT	ST (F)# SM2T6V8A	1	1	1	1	1	1	1	1	1	1	1	1	1	1
IC7000	11-7213	IC MAX481ESA -40/+85°C SO8 SMT Transceiver	MAXIM (F)# MAX 481 ESA +T	1	1	1	1	1	1	1	1	1	1	1	1	1	1

L7000	04-0797	COIL 6,5mH 50% 420mR 600mA 9,2x6x5mm SMT	OleWolff # OWISFT0905-652-R-S-L-F WÜRTH elektronik (F)# 744229 AMC # 6016x01519-1777		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7000	08-0275-4	T BSS84 P-Kanal 50V 130mA SOT23 SMT	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7001	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7002	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7000	01-0799	RES 560R 1% 0,125W 100ppm 0805 SMT	KOA (F)# RK73H2ATTD5600F ASJ (F)# CR21-5600F YAGEO (F)# RC0805FR-075600RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7001	01-0799	RES 560R 1% 0,125W 100ppm 0805 SMT	KOA (F)# RK73H2ATTD5600F ASJ (F)# CR21-5600F YAGEO (F)# RC0805FR-075600RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7002	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04022000Z0ED VISHAY (F)# CRCW04022000Z5ED YAGEO (F)# RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7003	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04022000Z0ED VISHAY (F)# CRCW04022000Z5ED YAGEO (F)# RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7004	01-2001	RES 2,2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04022K20FKED YAGEO (F)# RC0402FR-072K2L		1	1	1	1	1	1	1	1	1	1	1	1	1	1
RN7000	01-1090	RESA 4x 100R 5% 0,063W 200ppm 1206 Array SMT	KOA (F)# CN1L 4 A TTD 101J CTS (G)# 742-08-3-101-JP-TR WALSIN (G)#		1	1	1	1	1	1	1	1	1	1	1	1	1	1
RN7000.1	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04022000Z0ED VISHAY (F)# CRCW04022000Z5ED YAGEO (F)# RC0402JR-070RL	Umbauanleitung für R30 beachten! NA-004-13_A3000_Rev1.3_R30.doc	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RN7000.2	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04022000Z0ED VISHAY (F)# CRCW04022000Z5ED YAGEO (F)# RC0402JR-070RL	Umbauanleitung für R30 beachten! NA-004-13_A3000_Rev1.3_R30.doc	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RN7000.3	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL	Umbauanleitung für R30 beachten! NA-004-13_A3000_Rev1.3_R30.doc	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CL0																			
C7200	02-2204	CAPC 100nF 10% 16VX7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104		0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7201	02-2204	CAPC 100nF 10% 16VX7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7200	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18 Diotec (A)#		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7201	08-2317	DIOZ ZMY33 33V 22mA Melf SMT	VISHAY (F)# ZMY33 VISHAY (F)# ZMY33-GS08		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7202	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT	NXP (F)# BAS40-05 NXP (F)# BAS40-05,215		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7203	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18 Diotec (A)#		0	0	0	0	0	0	0	0	0	0	0	0	0	0
D7204	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18 Diotec (A)#		0	0	0	0	0	0	0	0	0	0	0	0	0	0
IC7200	06-1859	IC SN74LVC2G14 -40/+85°C SC70-6 SMT Inverter	TEXAS (F)# SN74LVC2G14DCKR		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q7200	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q7201	08-0275-4	T BSS84 P-Kanal 50V 130mA SOT23 SMT	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215 Diotec (A)#		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7200	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 10O 10K 1% RT7 VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-0710KL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7201	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7202	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 10O 10K 1% RT7 VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-0710KL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7203	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7204	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7205	01-1927	RES 1,1M 1% 0,063W 100ppm 0402 SMT	ASJ (T)# CR10-1004-FK YAGEO (F)# RC0402FR-071ML		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7206	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04022000Z0ED YAGEO (F)# RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7207	01-0573	RES 100R 1% 0,125W 100ppm 0805 SMT	VISHAY (F)# CRCW 0805 100O F 100 RT6 KOA (F)# RK73H 2A T TD 100O F ASJ (F)# CR21 100 FL YAGEO (F)# RC0805FR-07100RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7208	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL		0	0	0	0	0	0	0	0	0	0	0	0	0	0

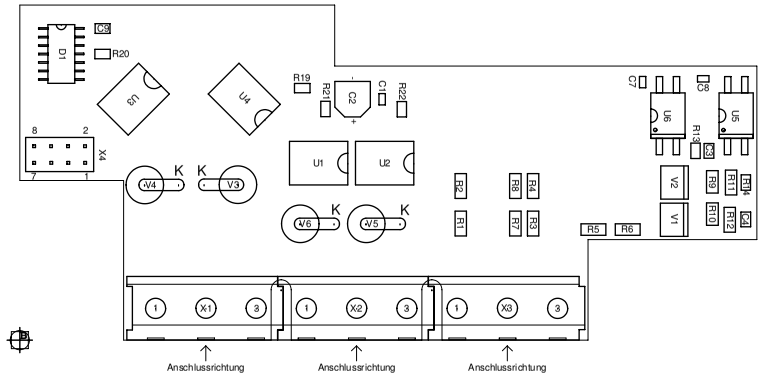
T7200	08-1097	T BCX70H NPN 45V 100mA SOT 23 SMT	INFINEON (F)# BCX70H E6327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7201	08-1097	T BCX70H NPN 45V 100mA SOT 23 SMT	INFINEON (F)# BCX70H E6327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
T7202	08-1097	T BCX70H NPN 45V 100mA SOT 23 SMT	INFINEON (F)# BCX70H E6327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Optical port																		
C7300	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7301	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7302	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7303	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LED7300	38-0184	LED SFH487-2 1-fach Infrarot RM2,54 THT 880nm Z LTR 23.06.2015	OSRAM (F)# SFH4356-UV OSRAM (A)# SFH487-2RN29A OSRAM (A)# SFH487-2RN29C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7300	08-0275-4	T BSS84 P-Kanal 50V 130mA SOT 23 SMT	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7300	01-2649	RES 330R 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1E TTP 3300F YAGEO (F)# RC0402FR-07330RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7309	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7301	01-3248	RES 221R 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-07221RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7551	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7302	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7303	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7304	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FKED YAGEO (F)# RC0402FR-0710KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7305	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402 10K0 FKED YAGEO (F)# RC0402FR-0710KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7306	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402000ZED VISHAY (F)# CRCW0402000ZSED YAGEO (F)# RC0402JR-070RL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7307	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00 FKED YAGEO (F)# RC0402FR-071KL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7308	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 1K00 FKED YAGEO (F)# RC0402FR-071KL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U7300	38-0183	Fototransistor SFH309FA-3 15mA RM2,54 THT Z	OSRAM (G)# SFH309FA-3/4 OSRAM (G)# SFH309FA-3/4 RN23A OSRAM (G)# SFH309FA-3/4 RN25 OSRAM (F)# SFH309FA-3/4 RN29A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Comms Port																		
C7400	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7401	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yaeeo-Phycom (F)# CC0402JRNPO9BN101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C7402	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	Yageo-Phycom (F)# 2238 869 15101 Yaeeo-Phycom (F)# CC0402JRNPO9BN101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

C7403	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK7400	11-8673-1	Optokoppler PC123X1YUP0F 50mA SO4 SMT	SHARP (F)# PC123Y13FP9F SHARP (F)# PC123X1YUP0F SHARP (A)# PC123Y13DP9F		1	1	1	1	1	1	1	1	1	1	1	1	1	1
OK7401	11-8673-1	Optokoppler PC123X1YUP0F 50mA SO4 SMT	SHARP (F)# PC123Y13FP9F SHARP (F)# PC123X1YUP0F SHARP (A)# PC123Y13DP9F		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7400	08-0154	T BC857C PNP 45V 100mA SOT23 SMT	PHILIPS (F)# BC857C INFINEON (F)# BC857C LRC (F)# LBC857CLT1G NXP (F)# BC857C		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7400	01-0799	RES 560R 1% 0,125W 100ppm 0805 SMT	KOA (F)# RK73H2ATTD5600F ASJ (F)# CR21-5600F YAGEO (F)# RC0805FR-07560RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7401	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7403	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200020ED VISHAY (F)# CRCW040200025ED YAGEO (F)# RC0402JR-070RL	wired MBUS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7405	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200020ED VISHAY (F)# CRCW040200025ED YAGEO (F)# RC0402JR-070RL	wired MBUS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7406	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT	VISHAY (F)# CRCW0603 220R F K TA YAGEO (F)# RC0603FR-072 20RL	VCC_SELECT 3.3V see R108 with DLMS	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7406	01-1884	RES 392R 1% 0,1W 100ppm 0603 SMT	ASJ (B)# CR16-392O-FF ASJ (B)# CR16-392O-FL YAGEO (B)# RC0603FR-07392RL	VCC_SELECT 5V see R102 without DLMS	1	0	1	0	1	1	1	1	1	0	1	1	0	1
R7407	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200020ED VISHAY (F)# CRCW040200025ED YAGEO (F)# RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7408	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200020ED VISHAY (F)# CRCW040200025ED YAGEO (F)# RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
SV7400	03-6451	BL 2x6p 180° RM2,54 THT	SAMTEC (F)# SSW-106-01-F-D Conectronics (F)# BTOB-254BSFHST12GTTHT20000 Conectronics (F)# BTOB-254BSFHST12GATTHT20000		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Serial IO Selection																				
C7500	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT	Yageo (F)# CC0402KRX7R9BB102 Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102 Samsung CL05B102KB5NNNC Murata GCM155R71H102KA37D Walsin 0402B102K500CT		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7501	02-3597	CAPC 1µF 10% 25V X7R 0805 SMT	Holystone (F)# C0805X105K025TX		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7502	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT	Yageo (F)# CC0402KRX7R9BB102 Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102 Samsung CL05B102KB5NNNC Murata GCM155R71H102KA37D Walsin 0402B102K500CT		1	1	1	1	1	1	1	1	1	1	1	1	1	1
C7503	02-2204	CAPC 100nF 10% 16V X7R 0402 SMT	Murata (F)# GRM155R71C104KA88D Yageo-Phycom (F)# CC0402KRX7R7BB104 Samsung (G)# CL05B104KO5NNND Murata (F)# GRM155R71C104KA88D Murata (F)# GRM155R71C104KA88J YAGEO (F)# CC0402KPX7R7BB104 YAGEO (F)# CC0402KPX7R8BB104 YAGEO (F)# CC0402KRX7R7BB104		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7500	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18 Diotec (A)#		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7501	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18 Diotec (A)#		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7502	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18 Diotec (A)#		1	1	1	1	1	1	1	1	1	1	1	1	1	1
D7503	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT	NXP (F)# BAS40-05 NXP (F)# BAS40-05.215		1	1	1	1	1	1	1	1	1	1	1	1	1	1

IC7500	06-0297-1	IC CD74HCT86 -40/+85°C EXOR SO14 SMT	PHILIPS (F)# 74HCT86 D PHILIPS (F)# 74HCT86 D RL NXP (F)# 74HCT86 D RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Q7500	08-0503-7	T BSS123 N-Kanal 100V 170mA SOT 23 SMT	DIODES (F)# BSS123-7-F NXP (F)# BSS123	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
Q7501	08-0275-4	T BSS84 P-Kanal 50V 130mA SOT 23 SMT	FAIRCHILD (F)# BSS84 FAIRCHILD (F)# BSS84_G INFINEON (A)# BSS84P-E6327 INFINEON (F)# BSS84P-H6327 INFINEON (A)# BSS84P-L6327 NXP (F)# BSS84,215		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7500	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402100KFKED YAGEO (F)# RC0402FR-0710KL	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7501	01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT	Dale (F)# CRCW0402220RFKED Yaeeo-Phycom (F)# RC0402FR-07220RL	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7502	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 100 10K 1% RT7 VISHAY (F)# CRCW0402100KFKED YAGEO (F)# RC0402FR-0710KL	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7503	01-3455	RES 2.2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 22K0FKED KOA (F)# RK73H1ETTP 2202F YAGEO (F)# RC0402FR-0722KL	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7504	01-2001	RES 2,2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 22K0FKED YAGEO (F)# RC0402FR-072K2L	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7505	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED YAGEO (F)# RC0402JR-070RL	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7506	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED YAGEO (F)# RC0402JR-070RL	wird nicht benötigt für DLMS variante (lvl shift)	1	0	1	0	1	1	1	1	1	0	1	1	0	1
R7507	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED YAGEO (F)# RC0402JR-070RL	wird nicht benötigt für DLMS variante (lvl shift)	1	0	1	0	1	1	1	1	1	0	1	1	0	1
R7508	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7509	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7510	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED	wird benötigt für DLMS variante (lvl shift)	0	1	0	1	0	0	0	0	0	1	0	0	1	0
R7511	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED YAGEO (F)# RC0402JR-070RL	wird nicht benötigt für DLMS variante (lvl shift)	1	0	1	0	1	1	1	1	1	0	1	1	0	1
R7512	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7513	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 21K0FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7514	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED YAGEO (F)# RC0402JR-070RL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7515	01-2001	RES 2,2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 22K0FKED YAGEO (F)# RC0402FR-072K2L		0	0	0	1	0	0	0	0	0	0	0	0	0	0
R7516	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED YAGEO (F)# RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7517	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED YAGEO (F)# RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7519	01-1890	RES 0 R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW0402 0000Z0ED VISHAY (F)# CRCW0402 0000Z5ED YAGEO (F)# RC0402JR-070RL		0	0	0	0	0	0	0	0	0	0	0	0	0	0
R7520	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP 1003F YAGEO (F)# RC0402FR-07100KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7521	01-3307	RES 10M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-0710ML Yaeeo-Phycom (F)# RC0402FR-0710ML		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7522	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 21K0FKED YAGEO (F)# RC0402FR-071KL		1	1	1	1	1	1	1	1	1	1	1	1	1	1
R7523	01-2001	RES 2,2K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402 22K0FKED YAGEO (F)# RC0402FR-072K2L		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Parts not in Groups																			
AS	21-0541-abc	Baugr. AS1440 Abschalteinheit	LA3002713 Disconnect Unit (DCU)	21-0541-abc ohne Schrauben	0	1	0	0	0	1	0	0	1	1	0	0	0	0
KBD	05-7443-abc	A1440Y Klemmblock direkt komplett	LA3002743 Terminal block WC (Whole Current)		1	0	0	0	1	0	1	1	0	0	0	0	0	0
	25-2022	AS3000 Klemmblock Direkt Cu komplett	LA3003841 Terminal block WC with extended bus bars	Terminal Block with extended copper bus bars (Switzerland), without screws and terminals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KBW	05-8078-abc	Klemmblock - AS1440Y MW	LA3002831 Terminal block CT (Current Transformer)		0	0	1	1	0	0	0	0	0	0	1	1	1	1
LCR_L	03-7639	CONN 1p 180° F Clip Kontakt RM3.4 THT	KEYSTONE (F)# Cat. No. 3557		0	0	0	0	0	0	0	0	0	0	0	0	0	0

CON_X5000	24-2189	ANGLED FEMALE PLUG PIN SPACING 5.08 mm / 0.2 in	Wago #232-402/026-000		0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCB		PCB Elster AS3000V HAL Pbfree TG>=130 ML4 1.3b 2x panel 162.5 x 118.74 x 1.6mm I II		New PCB	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WIP	18-3442	Label 7x7mm Polyester weiß 2D-WIP-Label -Standard RT.05-7263 mit Klartext	Brady (F)# THT-8496-7X7		1	1	1	1	1	1	1	1	1	1	1	1	1	1
Prod_Label	18-7669	Label Prod_Label Elster abx077.02 RT.05-0804-3 s. Spec			1	1	1	1	1	1	1	1	1	1	1	1	1	1
FKT1_IC1000		Elster FW AS3000 Bxx_xx.s2 Rev. FW B.xx.xx-xx	Elster LA3004033		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FKT1_U1		Elster FW AS3000 1.xx_xx.s2 Rev. FW 1.xx.xx-xx	Elster LA3004034		1	1	1	1	1	1	1	1	1	1	1	1	1	1
FW_Label	05-0804-3	Rohlabel 16x6mm Polyester weiß AFO-Label UL	3M (F)# 3922 DSL Dynamic (F)# DE-F190 Hersa Print (F)# at 111170 10001 neutral		1	1	1	1	1	1	1	1	1	1	1	1	1	1
		Isolation tape	Kapton	To cover soldering pads X1100,X1200,X1300,X1302	0	0	0	0	0	0	0	1	1	1	0	1	1	0
Wire 1	35-0457	Kabel 1p 65mm 0,5mm² sw Z 75-0061 + 05-8076	MEDI Kabel (F)# 6YV605008	LK9065002 Wire for LA3002831	0	0	1	1	0	0	0	0	0	0	1	1	1	1
Wire 2	35-0457	Kabel 1p 65mm 0,5mm² sw Z 75-0061 + 05-8076	MEDI Kabel (F)# 6YV605008	LK9065002 Wire for LA3002831	0	0	1	1	0	0	0	0	0	0	1	1	1	1
Wire 3	35-0457	Kabel 1p 65mm 0,5mm² sw Z 75-0061 + 05-8076	MEDI Kabel (F)# 6YV605008	LK9065002 Wire for LA3002831	0	0	1	1	0	0	0	0	0	0	1	1	1	1
Wire 4	35-0457	Kabel 1p 65mm 0,5mm² sw Z 75-0061 + 05-8076	MEDI Kabel (F)# 6YV605008	LK9065002 Wire for LA3002831	0	0	1	1	0	0	0	0	0	0	1	1	1	1
Wire 5	35-0458	Kabel 1p 130mm 1,5mm² sw Z 75-0062 + 05-8077	MEDI Kabel (F)# 6YV615008	LK9065001 Wire for LA3002831	0	0	1	1	0	0	0	0	0	0	1	1	1	1
Wire 6	35-0458	Kabel 1p 130mm 1,5mm² sw Z 75-0062 + 05-8077	MEDI Kabel (F)# 6YV615008	LK9065001 Wire for LA3002831	0	0	1	1	0	0	0	0	0	0	1	1	1	1
Wire 7	35-0458	Kabel 1p 130mm 1,5mm² sw Z 75-0062 + 05-8077	MEDI Kabel (F)# 6YV615008	LK9065001 Wire for LA3002831	0	0	1	1	0	0	0	0	0	0	1	1	1	1
Summe aller Bauteile					420	419	433	432	390	402	384	370	393	415	409	410	432	397

Layer(s):	Assembly Top
	Legend



	Funktionsstand		Datum	09.09.2008	(Titel)	A1350 V4 IO-Board	(Adresse) ELSTER Meßtechnik GmbH Otto-Hahn-Straße 25 D-68623 Lampertheim	(Logo)	Kunde-Projekt-Nr. / Kunde-PCB-Nr.	
	Erzeugnisstand		Bearbeitet	S.Schmieder					BMK-Projekt-Nr.	abc027.00-c1
	Unterlagenstand		Geprueft						BMK-PCB-Nr.	15-2712-2
			Frei gegeben		Ersetzt	Ersetzt durch				

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	Component list	IO-Board							
Ref	**BMK-Nr.**	**PartName**	**Hersteller**		**Anmerkung**	**Änderungen**	**R1**	**R2**	**R3**
R11	01-0624	R 4.7K 1% 0.25W Minimelf 50ppm	VISHAY (B)# ,SMM0204 50 4K7 1% B3 e3; KOA (B)# ,RN412ESTTE4701F50; KOA (B)# ,RN41C2BFT4K7; FIRSTOHM (G)# ,WME36 0204 4,70K 1% 0,25W TK50 Mi-Me				1	0	1
C3	02-0162-2	C 47nF 10% 50V 0805 Keramik X7R	Murata (F)# ,GRM21BR71H473KA01L				1	0	1
R13	01-0561	R 1K 1% 0.125W 0805 100ppm	VISHAY (F)# ,CRCW 0805 1001 F 100 RT6; KOA (F)# ,RK73H 2A T TD 1001 F; ASJ (F)# ,CR21 1001 FL; Samsung (G)# ,RC 2012 F 1001 *S; YAGEO (F)# ,RC 0805 F R F 07 1K L				1	0	1
U6	11-2696	PC123ZY1 Optokoppler SO4 1fach 5kV 50mA 50mA(Schaltstrom) LTB: 30.09.2009	SHARP (F)# ,PC123ZY1J00F				1	0	1
C7	02-1902	C 100nF 10% 50V 0603 Keramik X7R	Murata (B)# ,GRM188R71H104KA93D; TDK (B)# ,C1608X7R1H104KT-*; Yageo-Phycom (B)# 223858615649,C0603KRX7R9BB104				1	0	1
R5	01-1130-2	R 22.1K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM02040C2212FB300; VISHAY (F)# ,SMM020450 22.1K 1%B3; Vishay-Beysc (F)# ,SMM020450 22.1K 1%B3				1	0	1
R6	01-1130-2	R 22.1K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM02040C2212FB300; VISHAY (F)# ,SMM020450 22.1K 1%B3; Vishay-Beysc (F)# ,SMM020450 22.1K 1%B3				1	0	1
R7	01-1130-2	R 22.1K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM02040C2212FB300; VISHAY (F)# ,SMM020450 22.1K 1%B3; Vishay-Beysc (F)# ,SMM020450 22.1K 1%B3				1	0	1
R8	01-1130-2	R 22.1K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM02040C2212FB300; VISHAY (F)# ,SMM020450 22.1K 1%B3; Vishay-Beysc (F)# ,SMM020450 22.1K 1%B3				1	0	1
V1	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150℃	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R				1	0	1
R10	01-0807	R 47.5K 1% 0.25W 1206 100ppm	ASJ (F)# ,CR32-4752-FL; YAGEO (F)# ,RC1206FR-0747K5L				1	0	1
R12	01-0624	R 4.7K 1% 0.25W Minimelf 50ppm	VISHAY (B)# ,SMM0204 50 4K7 1% B3 e3; KOA (B)# ,RN412ESTTE4701F50; KOA (B)# ,RN41C2BFT4K7; FIRSTOHM (G)# ,WME36 0204 4,70K 1% 0,25W TK50 Mi-Me				1	0	1
C4	02-0162-2	C 47nF 10% 50V 0805 Keramik X7R	Murata (F)# ,GRM21BR71H473KA01L				1	0	1
R14	01-0561	R 1K 1% 0.125W 0805 100ppm	VISHAY (F)# ,CRCW 0805 1001 F 100 RT6; KOA (F)# ,RK73H 2A T TD 1001 F; ASJ (F)# ,CR21 1001 FL; Samsung (G)# ,RC 2012 F 1001 *S; YAGEO (F)# ,RC 0805 F R F 07 1K L				1	0	1
U5	11-2696	PC123ZY1 Optokoppler SO4 1fach 5kV 50mA 50mA(Schaltstrom) LTB: 30.09.2009	SHARP (F)# ,PC123ZY1J00F				1	0	1
C8	02-1902	C 100nF 10% 50V 0603 Keramik X7R	Murata (B)# ,GRM188R71H104KA93D; TDK (B)# ,C1608X7R1H104KT-*; Yageo-Phycom (B)# 223858615649,C0603KRX7R9BB104				1	0	1
X3	03-6088	X 3p Schraubklemme RM7.5	Wieland; 25.165.0353.0				0	0	1
Sonstiges									
PCB	15-2712-2	PCB Elster A1350V4 IO-Board HAL Pb TG: 130 DK - 5x Nutzen t.b.dmm UL	Hi-Tech Corp (F)# ,				1	1	1
AFO	05-0804-3	Kauflabel 16x6mm Polyester weiß AFO-Label N UL	3M (F)# ,3922 DSL; Herpa Print (F)# ,et.11117.010001 neutral				1	1	1
WIP	05-1321	Kauflabel 18x7mm Polyester weiß BMK-WIP-Label 81080000 3922DSL/ Hochtemp. S UL	3M (F)# ,3922				1	1	1

	Component list	IO-Board							
Ref	**BMK-Nr.**	**PartName**	**Hersteller**		**Anmerkung**	**Änderungen**	**R1**	**R2**	**R3**
Steckverbinder									
X4	03-6175	BL 2x4p 2.54mm pitch female 180°von unten steckbar 10.16x5.08x3.51mm AU Text / Samtec =RoHS	SAMTEC (F)# ,HLE-104-02-G-DV-BE-K-TR				1	1	1
C1	02-1902	C 100nF 10% 50V 0603 Keramik X7R	Murata (B)# ,GRM188R71H104KA93D; TDK (B)# ,C1608X7R1H104KT-*; Yageo-Phycom (B)# 223858615649,C0603KRX7R9BB104				1	1	1
C2	02-0384-1	C 22µF 20% 16V SMD-C Elko -40/+85℃	PANASONIC (F)# ,EEE1CA220SR				1	1	1
X1_3	33-0129	X 9p Schraubklemme RM7.5 zusammenstecken RT:siehe SL					1	0	0
Ausgänge									
D1	06-0016	SN74HC14 SO14 CMOS 5V 0-5V HEX Schmitt-Trigger Inverter -40/+85℃	PHILIPS (F)# ,74HC14D; TEXA S (F)# ,SN74HC14DR; FAIRCHILD (F)# ,MM74HC14MX_NL; Onsemi (F)# ,MC74HC14ADR2G; National (F)# ,MM74HC14MX_NL; MOTOROLA (F)# ,MC74HC14ADR2G; NXP (F)# ,74HC14D				1	1	0
C9	02-0027	C 100nF +80% -20% 50V 0805 Keramik Y5V	Yageo-Phycom (F)# ,2238-580-19812				1	1	0
V4	38-0135	D 1.5KE 200A 1500W DO201 geschnitten stehend RM5 biegen 3.2mm RT:08-1096					1	1	0
U3	11-2695	LH1540 Optokoppler SO6 1fach 5.3kV 50mA 250mA(Schaltstrom)	VISHAY (F)# ,LH1540AABTR; INFINEON (F)# ,LH1540AAB-TR				1	1	0
R20	01-1344	R 562R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-5620-FL; YAGEO (B)# ,RC0805FR-07562RL				1	1	0
V3	38-0135	D 1.5KE 200A 1500W DO201 geschnitten stehend RM5 biegen 3.2mm RT:08-1096					1	1	0
U4	11-2695	LH1540 Optokoppler SO6 1fach 5.3kV 50mA 250mA(Schaltstrom)	VISHAY (F)# ,LH1540AABTR; INFINEON (F)# ,LH1540AAB-TR				1	1	0
R19	01-1344	R 562R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-5620-FL; YAGEO (B)# ,RC0805FR-07562RL				1	1	0
V6	38-0135	D 1.5KE 200A 1500W DO201 geschnitten stehend RM5 biegen 3.2mm RT:08-1096					1	1	0
U1	11-2695	LH1540 Optokoppler SO6 1fach 5.3kV 50mA 250mA(Schaltstrom)	VISHAY (F)# ,LH1540AABTR; INFINEON (F)# ,LH1540AAB-TR				1	1	0
R21	01-1344	R 562R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-5620-FL; YAGEO (B)# ,RC0805FR-07562RL				1	1	0
V5	38-0135	D 1.5KE 200A 1500W DO201 geschnitten stehend RM5 biegen 3.2mm RT:08-1096					1	1	0
U2	11-2695	LH1540 Optokoppler SO6 1fach 5.3kV 50mA 250mA(Schaltstrom)	VISHAY (F)# ,LH1540AABTR; INFINEON (F)# ,LH1540AAB-TR				1	1	0
R22	01-1344	R 562R 1% 0.125W 0805 100ppm	ASJ (B)# ,CR21-5620-FL; YAGEO (B)# ,RC0805FR-07562RL				1	1	0
X1	03-6088	X 3p Schraubklemme RM7.5	Wieland; 25.165.0353.0				0	1	0
X2	03-6088	X 3p Schraubklemme RM7.5	Wieland; 25.165.0353.0				0	1	0
Eingänge									
R1	01-1130-2	R 22.1K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM02040C2212FB300; VISHAY (F)# ,SMM020450 22.1K 1%B3; Vishay-Beysc (F)# ,SMM020450 22.1K 1%B3				1	0	1
R2	01-1130-2	R 22.1K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM02040C2212FB300; VISHAY (F)# ,SMM020450 22.1K 1%B3; Vishay-Beysc (F)# ,SMM020450 22.1K 1%B3				1	0	1
R3	01-1130-2	R 22.1K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM02040C2212FB300; VISHAY (F)# ,SMM020450 22.1K 1%B3; Vishay-Beysc (F)# ,SMM020450 22.1K 1%B3				1	0	1
R4	01-1130-2	R 22.1K 1% 0.25W Minimelf 50ppm	VISHAY (F)# ,SMM02040C2212FB300; VISHAY (F)# ,SMM020450 22.1K 1%B3; Vishay-Beysc (F)# ,SMM020450 22.1K 1%B3				1	0	1
V2	08-1108-1	GL MB4S SO4 Gleichrichter 280V 0.5A SMD 4.9x3.0x4.2 -55/+150℃	GS (F)# ,MB4S TO269AA 4p; GS (F)# ,MB6S TO269AA 4p; PANJIT (F)# ,B4S; PANJIT (F)# ,B6S T/R				1	0	1
R9	01-0807	R 47.5K 1% 0.25W 1206 100ppm	ASJ (F)# ,CR32-4752-FL; YAGEO (F)# ,RC1206FR-0747K5L				1	0	1

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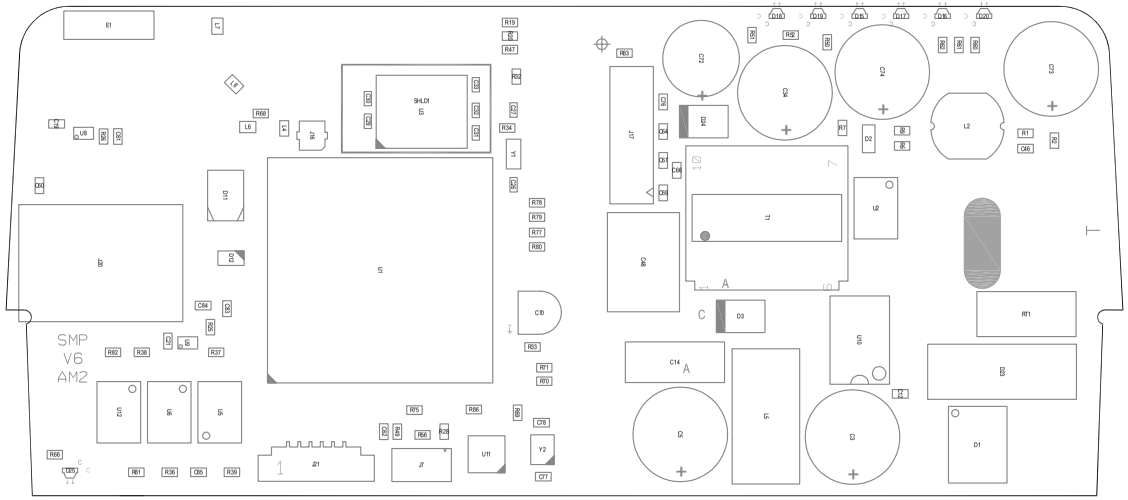

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	FILENAME: Smp_v6_am2_001.dwg	PAGE: 01	TOTAL: 05

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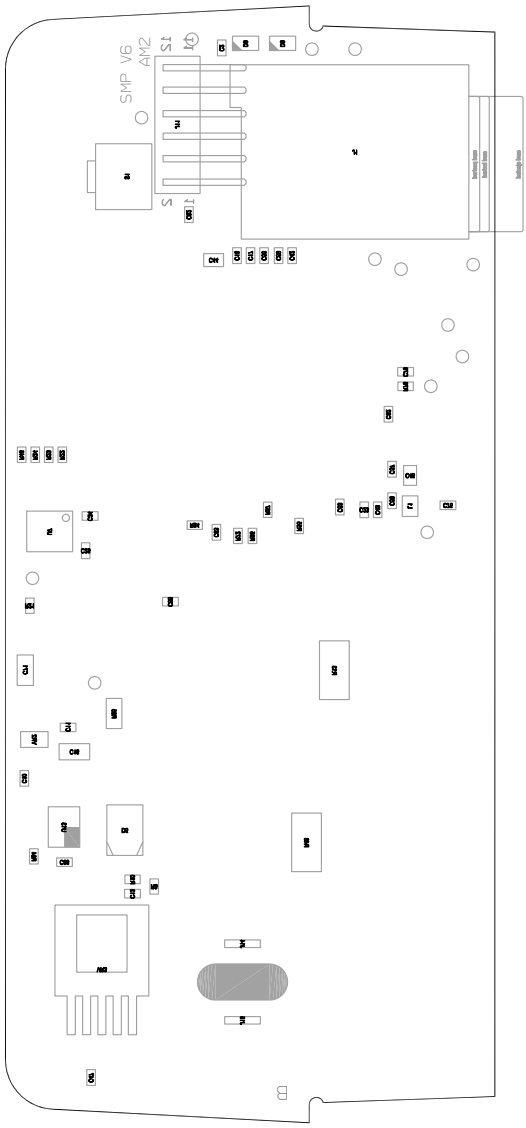

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Technolution B.V. Zuidelijk Halfrond 1 2801 DD GOUDA Tel. +31(0)182 59 40 00			
FILENAME: Smp_v6_am2_001.dwg		PAGE: 01	TOTAL: 05

Proj-AWG

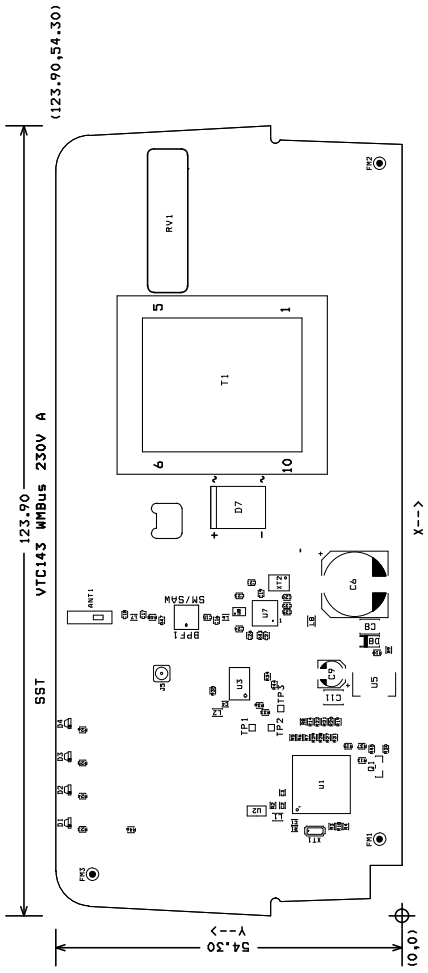
size: A3

AM100 BOM	Qty	Teil	Bezeichnung	Hersteller: (F)=freigegeben (G)=gesperrt
C62, C63, C79	3	02-0329	C 470pF 10% 50V 0603 Keramik X7R	kemet (F)# ,C0603C471K5RAC Yageo-Phycom (F)# CC0603KRX7R9BB471,223858615618
C10, C12, C13, C17, C18, C19, C2, C21, C23, C24, C25, C29, C30, C31, C32, C33, C42, C43, C47, C52, C75, C85, C86	23	02-0338	C 100nF 10% 16V 0603 Keramik X7R	AVX (F)# ,0603YC104KAT2A AVX (F)# ,0603YC104KAT4A VISHAY (F)# ,VJ0603Y104KXJAT Vishay-BCcom (F)# ,VJ0603Y104KXJ-CW1BC Yageo-Phycom (F)# 223878655649,C0603KPX7R7BB104 Yageo-Phycom (F)# 223878615649,C0603KRX7R7BB104
C26, C27, C77, C78	4	02-0349	C 22pF 5% 50V 0603 Keramik COG	AVX (F)# ,06035A220JAT2A Murata (F)# ,GRM1885C1H220JA01D Yageo-Phycom (F)# ,CC0603JRNPO9BN220
C46, C56, C57, C64, C66, C67	6	02-0503	C 33pF 5% 50V 0603 Keramik COG	kemet (F)# ,C0603C330J5GAC7867 AVX (F)# ,06035A330JAT2A VISHAY (F)# ,VJ0603A330JXA *CW 1BC Yageo-Phycom (F)# 223886715339,CC0603JRNPO9BN330
C11, C68, C69, C76	4	02-0516	C 1nF 5% 50V 0603 Keramik X7R	Yageo-Phycom (F)# ,2238 586 15523
C16, C71	2	02-1533	C 2.2µF 10% 16V 1206 Keramik X7R	kemet (F)# ,C1206C225K4RAC7533 VISHAY (F)# ,VJ1206Y225KXJCW1BC Murata (F)# ,GRM31MR71C225KA35L EPCOS (F)# ,B37872K9225K062
C44, C45	2	02-1965-1	C 10µF 10% 6.3V 0805 Keramik X5R -55/+85°C	TAIYO YUDEN (F)# ,JMK212BJ106KG-T
C70	1	02-2650	C 200mF +-30% 3.3V Polymer Goldcap -10/+60°C	PANASONIC (F)# ,EECEN0F204A PANASONIC (F)# ,EECEN0F204AK
C53	1	02-3072-1	C 10µF 20% 6.3V 0603 Keramik X5R -55/+85°C	kemet (F)# ,C0603C106M9PAC7867 kemet (F)# ,C0603C106M9PACTU Murata (F)# ,GRM188R60J106ME47D PANASONIC (F)# ,ECJ1VB0J106M
C3, C5	2	02-3403	C 10µF 20% 400V RM5 Elko 10x16 -40/+105°C	NIPPON CHEMI (F)# ,EKXJ401EC3100MJ16S
J17	1	03-7299	Stapel-SL 2x6p RM2.54 male 180° Stapelhöhe=21mm	SAMTEC (F)# ,DW-06-13-T-D-827 Conexcon (F)# ,2666-212
J11	1	03-7681	SL 2x6p RM2.54 male 90° schwarz 2. Abstandshalter	Conexcon (F)# ,CON272-0601A001B1BC
J20	1	03-7951	Modular Jack & Plug 4p 1.27mm pitch female 90° 6P/4C	Conexcon (F)# ,RJ11-208G2
J1	1	03-7976	Sockel SIM Card 8p Push-Push	Conexcon (F)# ,CON-2115A-ADAAR01
L1	1	04-0900	Spule 0.22µH 50R@250MHz 5% 400mA 0805 2.29x1.73x1.52mm 0.7Rdc	COILCRAFT (F)# ,0805CS-221XJLC
L7	1	04-1828-1	Spule 18nH 5% 0.4A 0603	EPCOS (F)# ,B82496C3180J000
L2	1	04-1909	Spule 10µH Speicherdros 10% 2.3A WE-PD2 7.0x7.8x5mm Speicherdrossel	WÜRTH (F)# ,74477510 LF
L5	1	04-2970	Spule 10mH 30% 700mA 250V - 15x7.5x18mm stromkomp. Drossel 350mRdc	WÜRTH (F)# ,744821110 LF
T1	1	04-2974-1	Trafo/Übertrag. 1mH 10% 1A -	Falco (F)# ,E09122
L6, L8	2	04-3241	Spule 10nH 5% 0.6A 0603	EPCOS (F)# ,B82496C3100J000
S1	1	05-1400	Taster 1-fach 6x6x6.3 90° 24V 50mA	OMRON (F)# ,B3F3100
E1	1	05-8056	Antenne 10x3.2x2 Dual Band	Pulse (F)# ,W3070

AM100 BOM	Qty	Teil	Bezeichnung	Hersteller: (F)=freigegeben (G)=gesperrt
R32, R36, R49, R55, R56, R64, R67, R69, R71, R72, R75, R76, R80, R84	14	01-0487	R 10K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-1002-FK YAGEO (F)# ,RC0603FR-0710KL YAGEO (F)# ,RC0603FR-1010KL YAGEO (F)# ,RU0603FRE0710K
R38, R7	2	01-0522	R 2.2K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-2201-FL Samsung (G)# ,RCF1608F222CS YAGEO (F)# ,RC0603FR-072k2L
R50, R51, R52, R60, R61, R62	6	01-0596	R 180R 1% 0.1W 0603 100ppm	YAGEO (F)# ,RC0603FR-0718ORL
R37, R8	2	01-0607	R 4.7K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-4701-FL ASJ (F)# ,CR16-472FL YAGEO (F)# ,RC0603FR-07 4K7L YAGEO (F)# ,RC0603FR-10 4K7L YAGEO (F)# ,RC0603FR-13 4K7L
R39, R70	2	01-0610	R 1K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-1001-FK ASJ (F)# ,CR16-1001-FL YAGEO (F)# ,RC0603FR-071kL
R86	1	01-0620	R 100R 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-1000-FL YAGEO (F)# ,RC0603FR-07100RL
R25, R6	2	01-0858	R 470R 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-4700-FL YAGEO (F)# ,RC0603FR-07470RL
R26	1	01-0887	R 270R 1% 0.1W 0603 100ppm	ASJ (B)# ,CR16-2700-FL YAGEO (B)# ,RC0603FR-07270RL
R81	1	01-0916	R 3.9K 1% 0.1W 0603 100ppm	VISHAY (F)# ,CRCW06033K90FKEA KOA (F)# ,RK73H1JTTD3901F ASJ (F)# ,CR16-3901-FL YAGEO (F)# ,RC0603FR-073K9L
R1	1	01-0956	R 18K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-1802-FL YAGEO (F)# ,RC0603FR-0718KL
R19, R20, R21, R22, R23, R24, R34, R46, R47, R83	10	01-0960	R 100K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-1003-FL YAGEO (F)# ,RC0603FR-07100KL YAGEO (F)# ,RC0603FR-10100KL
R10	1	01-0968	R 1.2K 1% 0.1W 0603 100ppm	VISHAY (F)# ,CRCW06031K2FKTA YAGEO (F)# ,RC0603FR-071K2L
R33	1	01-1654-1	R 6.2K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-6201-FL YAGEO (F)# ,RC0603FR-076K2L
R28, R65	2	01-1786	R 1.8K 1% 0.1W 0603 100ppm	ASJ (F)# ,CR16-1801-FK ASJ (F)# ,CR16-1801-FL YAGEO (F)# ,RC0603FR-071K8L YAGEO (F)# ,RC0603FR-101K8L
R2, R9	2	01-1930	R 3.6K 1% 0.063W 0603 100ppm	YAGEO (B)# ,RC0603FR-073K6L
R48	1	01-5957	R 1.5M 1% 1W 2512 100ppm	VISHAY (F)# ,CRCW25121M50FKEG KOA (F)# ,HV733ATTE1504F
R13	1	01-5960	R 100K 1% 1W 2512 100ppm	VISHAY (F)# ,CRCW2512 100K FKEG-e3
R85	1	01-6361	R 24K 1% 0.25W 1206 100ppm	Bourns (F)# ,CR1206-FX-2402ELF Yageo-Phycom (F)# ,232272472403L Yageo-Phycom (F)# 232272472403L,RC1206FR-07 24K L
C58, C59	2	02-0318	C 10pF 5% 50V 0603 Keramik COG	AVX (F)# ,0603A100JAT2A VISHAY (F)# ,VJ0603A1[illegible]XAAT VISHAY (F)# ,VJ0603A100JXA *C W1BC Samsung (G)# ,CL10C100JB8NNNC
C60, C61, C82, C83, C84	5	02-0327	C 100pF 5% 50V 0603 Keramik COG	VISHAY (F)# ,VJ0603A101JXAAT VISHAY (F)# ,VJ0603A101JXACW1BC Yageo-Phycom (F)# 223886775101,CC0603JPNPO9BN101 Yageo-Phycom (F)# 22[illegible]5711[illegible]03JPNPO9BN101

AM100 BOM	Qty	Teil	Bezeichnung	Hersteller: (F)=freigegeben (G)=gesperrt
VR3	1	11-8441	LP38503TJ-ADJ D²PAKT-5 Spannungsregler adj. 3A -65/+150°C	National (F)# ,LP38503TJ-ADJ
PCB	1	15-2998-6	PCB Elster AM100 chem.NiAu TG: 170 ML4 V6_am2 4x Nutzen 123.9x54.3x1.6mm UL	Techwise PCB (F)# ,FP40302-3A04I
WIP	1	18-3442	BMK-Label 7x7mm Polyester weiß 2D-WIP-Label BMK-Standard RT:05-7263 mit Klartext $	3M (F)# ,3922 1-bahnig
Lab1	1	18-3918	BMK-Label Artikellabel Elster abc035.00re1 RT:05-1321 s.Text H	
D23	1	31-0257	RV Varistor 300V 10% 0.8W RM10 -40/+85°C 8000A gesickt geschnitten 3.2mm	EPCOS (F)# Q14K300SSM3,5 ab Hersteller geschnitten/gesickt,B72214-Q301-K502 EPCOS (F)# ungeschnitten - nur in Ausnahmefällen,B72214Q0301K101 EPCOS (F)# geschnitten, ungesickt nur Ausnahmsweise,B72214Q301K102
RT1	1	31-0278	RV 230V 20% 11W RM5 PTC geschnitten 3,2mm	EPCOS (F)# ,B59860C0120A070 EPCOS (F)# ,B59860C0120A570 EPCOS (F)# ,B59860C120A70
C48	1	32-0211	C 2.2nF 20% 440V RM10 Keramik YSU s.Text -25/+105°C geschnitten 3,2mm UL	Murata (F)# ,DE1E3KX222MN5AA01 PANASONIC (F)# ,ECKANA222ME
C14	1	32-0234	C 1.5nF 10% 1KV RM5 Keramik Y5R geschnitten 3,2mm	VISHAY (F)# ,F152K43Y5RN6TJ5R VISHAY (F)# ,F152K43Y5RN6UK5R PANASONIC (F)# ,ECK-N3A152KBP
C72	1	32-0235	C 100µF 20% 63V RM3.5 Elko -40/+105°C geschnitten 3,2mm	PANASONIC (F)# ,EEUEB1J101 PANASONIC (F)# ,EEUEB1J101B
C34, C73, C74	3	32-0263	C 1.5mF 20% 10V RM5 Elko 6000h@105°C DxL:10x16mm -40/+105°C geschnitten 3,2mm	RUBYCON (F)# ,10ZLH1500M CE 10X16 RUBYCON (F)# ,10ZLH1500M EFC CE 10X16 RUBYCON (F)# ,10ZLH1500M EFC T8 10X16 RUBYCON (F)# ,10ZLH1500M T8 10X16
J14, J15	2	33-0133	Flachstecker 1p male 180° geschnitten einzeln 2.8x0.8mm verzinnt	Vogt AG Verb (F)# 3775d05.68,3775 D/0.5 Ms sn 2.8x0.5
D25, J16, J21, J7, L4, R66, R68, R77, R78, R79, R82, SHLD1, U12	13	n.b.	nicht bestückt	

AM100 BOM	Qty	Teil	Bezeichnung	Hersteller: (F)=freigegeben (G)=gesperrt
U8	1	06-0532	NC7SZ32 SC70-5 CMOS 1.5-5.5V 0-5.5V SINGLE OR-Gate UHS 2-Input -40/+85°C	FAIRCHILD (F)# ,NC7SZ32P5X
U9	1	11-1804	NC7SZ04P5 SC70-5 CMOS 1.65-5.5V SINGLE Inverter -40/+85°C	FAIRCHILD (F)# ,NC7SZ04P5X FAIRCHILD (F)# ,NC7SZ04P5_NL
U13	1	06-6315	SN74LV244ARGYR QFN20 Treiber-IC 3.3V Oct. 3-StateBusTreib -40/+85°C	TEXAS (F)# ,SN74ALVC244RGYR TEXAS (F)# ,SN74LV244ARGYR
U1	1	07-0460-1	WMP100RD BGA576 µProcessor 104MHz 32Bit wireless Microchip -40/+85°C	Sierra Wirel (F)# ,WMP100RD Sierra Wirel (F)# ,WMP100_1101206
D15, D16, D17, D18, D19, D20	6	08-1003	HSMG-C120 LED 1.6x0.6mm grün 0603 525nm 1fach 20mA -30/+85°	Agilent (F)# = Avago,HSMG-C120 AVAGO (F)# ,HSMG-C120
D11, D5	2	08-1083	D SS26 SMB Schottky 60V 2A SMD -65/+150°C	VISHAY (F)# ,SS26 VISHAY (F)# ,SS26-E3/52T
D12, D9	2	08-1371	D ESDA6V1SC6 SOT23 Überspannungsschutz 6.1V 500W -55/+150°C	ST (F)# ,ESDA6V1SC6
D1	1	08-1988	GL DF10S DFS Diodennetzwerk 1kV 1A SMD 10.4x8.4x3.3 -55/+150°C UL	FAIRCHILD (F)# ,DF10S VISHAY (F)# ,DF10S-E3/77
D8	1	08-3517	D DALC208 SOT23-6 Diodennetzwerk 1.2V 0.2A -55/+150°C	ST (F)# ,DALC208SC6
D24, D3	2	08-3965	D USB260 DO-214AA Silizium 600V 2A -55/+150°C	ST (F)# ,STTH2R06U VISHAY (F)# ,RS2J-E3/5BT VISHAY (F)# ,USB260-E3/52T VISHAY (F)# ,USB260-E3/5BT
U2, U5, U6	3	08-4764-1	FOD817C Optokoppler SO4 1fach 5kV CTR200-400% mit VDE	FAIRCHILD (F)# ,FOD817C3SD
Y2	1	09-1149	Q 19.200MHz C3E 2.5x3.2mm Grundwelle 12pF 10ppm@25°C 10ppm -40/+85°C	Aker (F)# ,C3E-19.200-12-1010-X-R
Y1	1	09-1805	Q 32.768kHz FC-135 3.2x1.5x0.8mm Grundwelle 12.5pF 20ppm -40/+85°C	Epson (F)# Q13FC1350000414,FC-135 32,768000 KHz 12,5 +20ppm Epson (F)# Q13FC1350000414,Q.032768 FC135A + 0T0
U3	1	10-2623	M36W0R5040T8 TFBGA88 FLASH parallel 32MBit 16MBit 70ns 1.7-1.95V Top Boot -40/+125°C	ST (F)# ,M36W0R5040T8ZAQF Micron (F)# ,M36W0R5040T8ZAQE Micron (F)# ,M36W0R5040T8ZAQF Numonyx (F)# ,M36W0R5040T8ZAQE Numonyx (F)# ,M36W0R5040T8ZAQF
U7	1	11-0204	TXB0104 TSSOP14 DC/DC 1.65-5.5V 100mA -40/+85°C	TEXAS (F)# ,TXB0104PWR
D2	1	11-0992	TLV431 SOT233 2.9x2.4x1mm Spannungsreferenz 1.24-6V 0.5% -40/+85°C	TEXAS (F)# ,TLV431BIDBZR TEXAS (F)# ,TLV431BIDBZT
VR2	1	11-2002	TPS79333 SOT235 3.0x3.0mm Spannungsregler 3.3V 200mA Low-Dropout Linear -40/+125°C	TEXAS (F)# ,TPS79333DBVR
U10	1	11-8439	TNY268 SMD-8B7 700V 880mA LowPower Off-Line S -40/+150°C	Power Integr (F)# ,TNY268GN-TL
U11	1	11-8440	SC16IS750IBS HVQFN24 Interface 3.3V UART w. I2C-Bus -65/+150°C	NXP (F)# ,SC16IS750IBS-128



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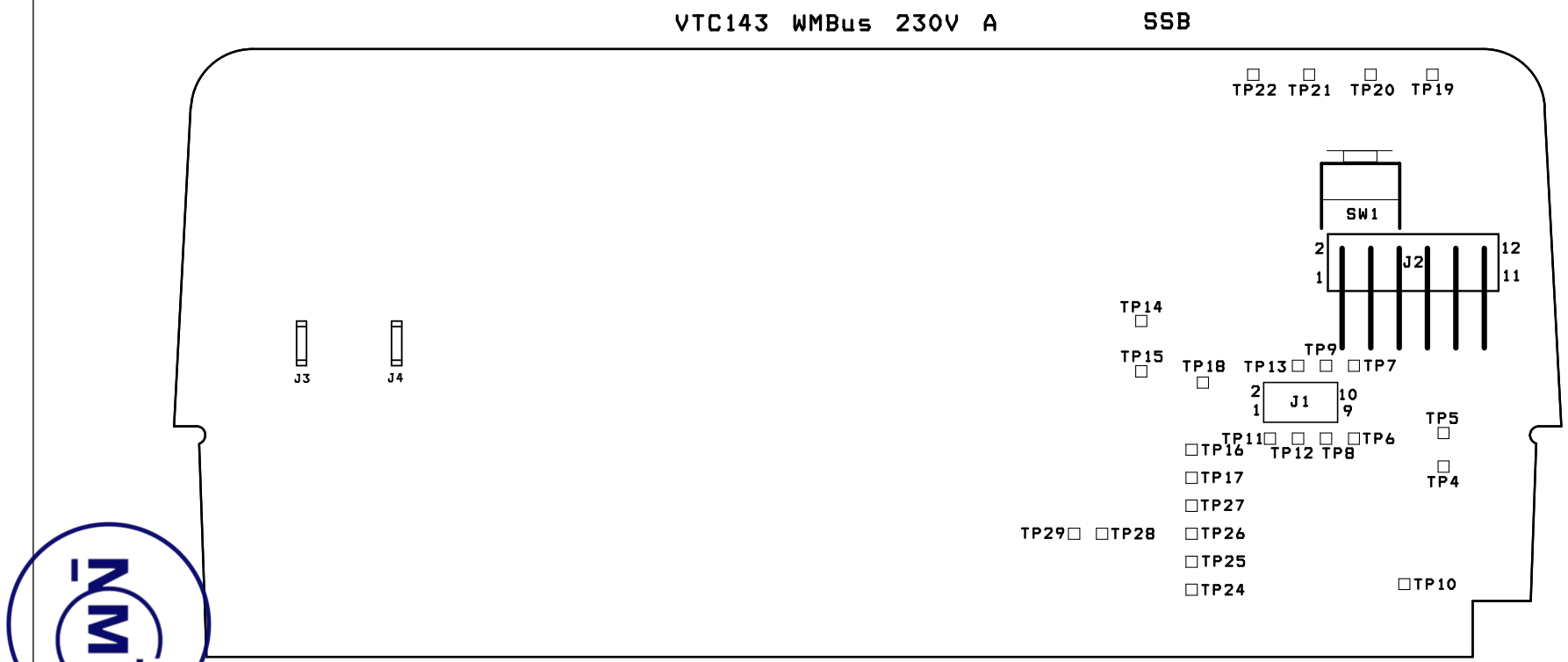
VTC143 WMBus 230V A SSB
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Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: (F)=freigegeben (G)=gesperrt
J2	1	03-7681	SL 2x6p RM2.54 male 90° schwarz 2. Abstandshalter	Conexcon (F)# ,CON272-0601A001B1BC
T1	1	04-2763	Trafo/Übertrag. V16644 230V 12V 0,7VA THT 32x27x27mm	Hahn (F)# ,V16644
BPF1	1	04-3238	Filter Sonderform 3.8x3.8x0.7mm	Murata (F)# ,SAFCH860MAL0N00R11 Abracon (F)# ,AFS869S3-T
L1, L8	2	04-3239	Ferrit 1000R@100 MHz 50mA 0603 1.8Rdc	Murata (F)# ,BLM18HD102SN1D
U8	1	04-3240	Filter 896MHz Balun Sonderform 2x1,25x0,7mm	JOHANSON (F)# ,0896BM15A0001 JOHANSON (F)# ,1P0896BM15A0001E
L6	1	04-3245	Spule 5.6nH 5% 760mA 0402	COILCRAFT (F)# ,0402CS-5N6XJLW
L7	1	04-3617	Spule 2.7nH 10% 300mA 0402	JOHANSON (F)# ,L-07C2N7SV6T
ANT1	1	05-8054	Antenne 7x2x0.8 868MHz	JOHANSON (F)# date code>433-XXXX,0868AT43A0020 JOHANSON (F)# date code>433-XXXX,0868AT43A0020E
D8	1	08-0640	GL MBR0520LT1 SOD123 Gleichrichter 20V 0.5A SMD -65/+125 °C Schottky	Onsemi (F)# ,MBR0520LT1G
Q1	1	08-0757	T FDV303N SOT23 N-Kanal 25V 0.68A 0.35W digital FET -55/+150 °C	FAIRCHILD (F)# ,FDV303N
D1, D2, D3, D4	4	08-1003	HSMG-C120 LED 1.6x0.6mm grün 0603 525nm 1fach 20mA -30/+85°	Agilent (F)# = Avago,HSMG-C120 AVAGO (F)# ,HSMG-C120
D7	1	08-1988	GL DF10S DFS Diodennetzwerk 1kV 1A SMD 10.4x8.4x3.3 -55/+150°C UL	FAIRCHILD (F)# ,DF10S VISHAY (F)# ,DF10S-E3/77
XT1	1	09-1805	Q 32.768kHz FC-135 3.2x1.5x0.8mm Grundwelle 12.5pF 20ppm -40/+85 °C	Epson (F)# Q13FC1350000414,FC-135 32,768000 KHz 12,5 +20ppm Epson (F)# Q13FC1350000414,Q.032768 FC135A + 0T0
XT2	1	09-2009	Q 26.000MHz - 3.2x2.5mm Grundwelle 8pF 10ppm 10ppm@25 °C -40/+85 °C	FRONTER ELEC (F)# ,FTX26.000M8SM3S-10/10 FRONTER ELEC (F)# ,FTX26.000M8SM3SLF
U5	1	11-3009-1	LM317AEMP SOT223-3 Spannungsregler adj. 1A -40/+125 °C	National (F)# ,LM317AEMP NOPB
U7	1	11-9155	CC1101 QFNTP20 Interface 1.8-3.6V RF Transceiver -40/+85 °C	TEXAS (F)# ,CC1101RTKR TEXAS (F)# ,CC1101RTKRG3
U1	1	11-9977	MSP430F2481TRGC QFN64 Mikrocontroller 16MHz 16Bit Texas -40/+105 °C	TEXAS (F)# ,MSP430F2481TRGCR TEXAS (F)# ,MSP430F2481TRGCT
U2	1	11-9979	XC61FN2712MRN SOT23-3 Spannungsüberwachung 2.7V N-Ch open drain -30/+80 °C	TOREX (F)# ,XC61FN2712MRN
PCB	1	15-3999-1	PCB Elster WM Bus 230V chem.NiAu TG: 135 ML4 - 4x Nutzen 134x64x1.6mm UL	
WIP	1	18-3442	BMK-Label 7x7mm Polyester weiß 2D-WIP-Label BMK-Standard RT:05-7263 mit Klartext S	3M (F)# ,3922 1-bahnig
J3, J4	2	33-0133	Flachstecker 1p male 180° geschnitten einzeln 2.8x0.8mm verzinnt	TYCO (F)# ,63756-1
C18, C4, FM1, FM2, FM3, J1, J5, L2, R19, R20, R21, R22, R33, R34, R35, R36, R47, SW1, U3	19	n.b.	nicht bestückt	

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: (F)=freigegeben (G)=gesperrt
RV1	1	01-0020	RV Varistor 460V 10% 195W RM10 8000A	EPCOS (F)# B72220-S461-K502,SIOV-S20K460
R1, R48	2	01-1890	R 0R x% 0.063W 0402 <50mOhm	VISHAY (F)# ,CRCW04020000Z0ED VISHAY (F)# ,CRCW04020000ZSED YAGEO (F)# ,RC0402JR-070RL
R14, R2, R44, R46	4	01-1905	R 100K 1% 0.063W 0402 100ppm	KOA (F)# ,RK73H1ETTP1003F YAGEO (F)# ,RC0402FR-07100KL
R45	1	01-1907	R 10K 1% 0.063W 0402 100ppm	VISHAY (F)# CRCW040210K0FK*ED,CRCW0402 100 10K 1% *RT7 YAGEO (F)# ,RC0402FR-0710KL
R18, R27, R28, R29, R31	5	01-1911	R 1K 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW04021K00FKED YAGEO (F)# ,RC0402FR-071KL
R13, R15, R3, R30, R37, R4, R5, R6, R7, R8	10	01-2649	R 330R 1% 0.063W 0402 100ppm	KOA (B)# ,RK73H 1E TTP 3300F YAGEO (B)# ,RC0402FR-07330RL
R43	1	01-3683	R 56K 1% 0.063W 0402 100ppm	PANASONIC (B)# ,ERJ2RKF5602X YAGEO (B)# ,RC0402FR-0756KL
R23, R24, R25, R26, R9	5	01-4152	R 390R 1% 0.063W 0402 100ppm	VISHAY (F)# ,CRCW0402390RFK*TD ASJ (F)# ,CR10-391FL YAGEO (F)# ,RC0402FR-07390RL
R10	1	01-4546	R 240R 1% 0.063W 0402 100ppm	YAGEO (F)# ,RC0402FR-07240RL
C11, C8	2	02-0104	C 100nF 10% 50V 1206 Keramik X7R	kemet (B)# ,C1206C104K5RACTU VISHAY (B)# ,VJ1206Y104KXACW1BC Samsung (G)# ,CL31B104KBCNNNC YAGEO (B)# ,223858115649 EPCOS (B)# ,B37872K5104K072
C17	1	02-1226	C 4.7pF +-0.25PF 50V 0402 Keramik COG -55/+125 °C	kemet (F)# ,C0402C479C5GAC kemet (F)# ,C0402C479J5GAC Samsung (G)# ,CL05C4R7CB5ANNC (CL05C4R7CBNC) YAGEO (F)# ,2238 869 15478 TDK (F)# ,C1005COG1H4R7CT-S
C6	1	02-1298	C 100µF 20% 35V SMD-G Elko low Impedanz -40/+105 °C	PANASONIC (F)# ,EEEFC1V101P
C9	1	02-1450	C 10µF 20% 16V SMD-B Elko low Impedanz	PANASONIC (B)# ,EEEFC1C100R
C1, C2, C22, C25	4	02-1536	C 100nF 10% 10V 0402 Keramik X5R -55/+85 °C	kemet (F)# ,C0402C104K8PAC7411 kemet (F)# ,C0402C104K8PAC7867 YAGEO (F)# ,2238 247 13649 TDK (F)# ,C1005X5R1A104KT Yageo-Phycom (F)# ,C0402KR X5R 6BB104
C15	1	02-1887	C 100pF 5% 50V 0402 Keramik NPO -55/+125 °C	Yageo-Phycom (F)# ,2238 869 15101
C20, C21	2	02-1904	C 10pF 5% 50V 0402 Keramik COG	AVX (F)# ,04025A100JAT2A Samsung (G)# ,CL05C100CB5NNNC Yageo-Phycom (F)# ,C0402JRNP09BN100
C26, C27	2	02-1906	C 220pF 5% 50V 0402 Keramik X7R	AVX (B)# ,04025C221JAT *2A Samsung (G)# ,CL05B221KB5NNNC (CL05B221KBNC) KYOCERA (B)# ,(CM)05X7R221J50*AH
C19, C24, C3	3	02-2047	C 10nF 10% 25V 0402 Keramik X7R	TDK (F)# ,C1005X7R1E103KT-S
C16	1	02-2707	C 1.8pF +-0.1PF 50V 0402 Keramik NPO	Murata (F)# ,GRM1555C1H1R8BZ01 Murata (F)# ,GRM1555C1H1R8BZ01D Yageo-Phycom (F)# ,223886914298
C23	1	02-3709	C 2.2pF +-0.25PF 50V 0402 Keramik COG	Murata (B)# ,GRM1555C1H2R2CZ01 Murata (B)# ,GRM1555C1H2R2CZ01D Yageo-Phycom (B)# 223886915228,CC0402JRNP09BN2R2

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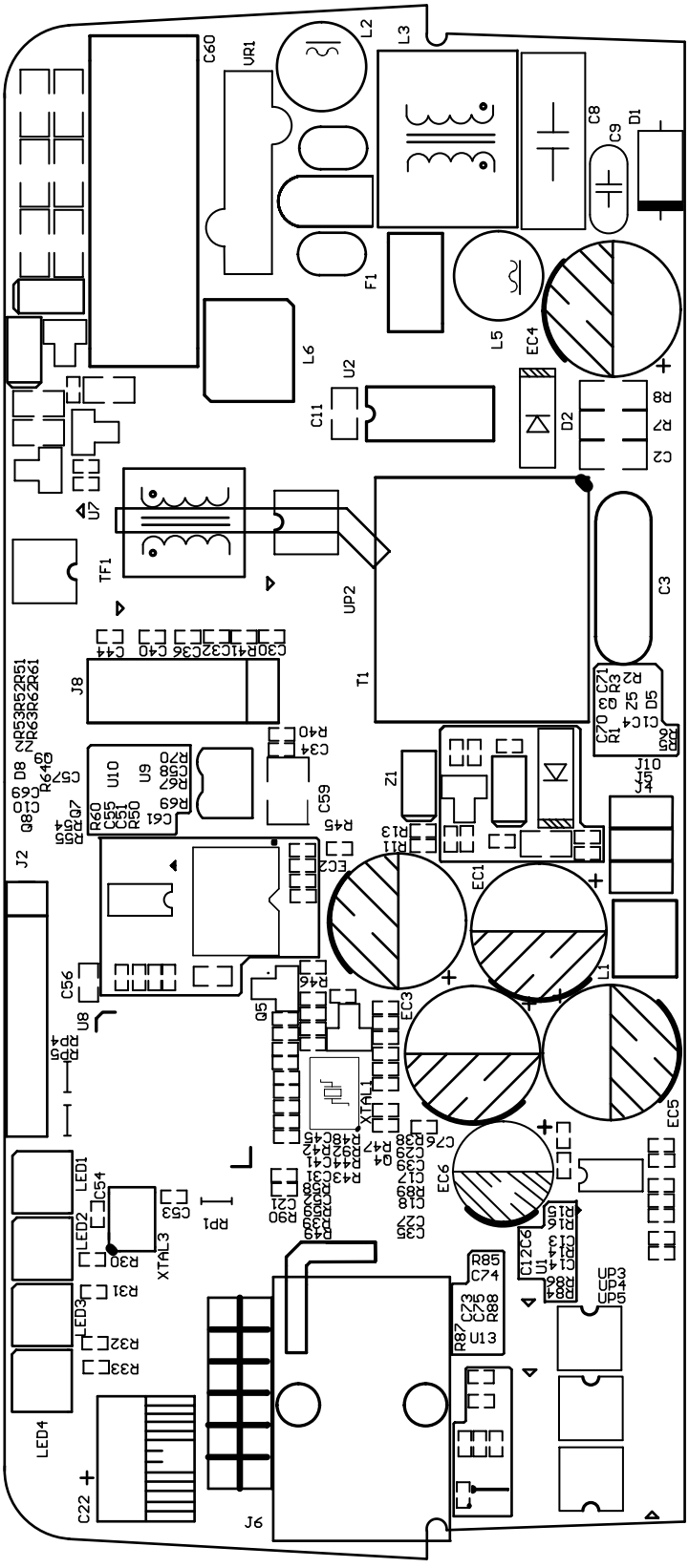

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Elster AM500 PLC BOM			Version	12
Remark	L-length,W-wide.H-high,P-pin pitch, unit is mm,e.g.: L7.2xW6.0xH11.0xP5.0 is lenth=7.2mm,wide=6.0mm,high=11.0mm,pin pitch=5.0mm			
Item	Component	Component Description	Current Manufacturer&Part Number	Qty
26	D8	Diode 100V 300mA MINI-MELF switch	GRANDE.LTD; LL4148 GALAXY ELECTRICAL;LL4148	1
27	D9	Diode 150mA SOT23 switch	ZH873;BAV99 GALAXY;BAV99	1
28	EC1,EC3,EC5	C 1000μF 20% 25V/105C/10KH RDLΦ10×H20xP5.0 Aluminum ECAP	Rubycon;25ZLJ1000MCE10X20	3
29	EC2	C 220μF 20% 50V/105C/7KH RDLΦ10×H16xP5.0 Aluminum ECAP	MAN YUE; EGT227M1HG16TCXXP	1
30	EC4	C 10μF 20% 450V/105C/10KH RDLΦ10×H16xP5.0 Aluminum ECAP	Rubycon; 450BXF10MEFC10X16	1
31	EC6	C 680μF 20% 10V/105C/10KH RDLΦ8×H16×P3.5 Aluminum ECAP	Rubycon;10ZLJ680MEFC8X16	1
32	F1	FUSE L8×W4×H8×P5 250VAC 1.25A	KING WAHOO;KET T 1.25A 250V TIME-L	1
33	FB1	Bead 1000Ω±25%@100MHZ; <1Ω>200mA 0603	TAIYO YUDEN; BK1608 HM102	1
34	J1	CONNECTOR;FASTON-15.8MMX2.79MMX0.83MM	TYCO;63756-1	2
35	J3	SWITCH;PUSH Button 4DIP 6×6×6.3 24VDC 50MA	OMRON;B3F3100# Trantec;1576043105100	1
36	J6	SOCKET;ROHS&REACH RJ11 4PIN	Molex;43249-6104	1
37	J7	CONNECTOR;Pin Headers, 2x6p, RM2.54, male, 90°, sch warz Codierung, 2x kodiert	CONEXCON;CON272-0601A001B1BC	1
38	J8	Dual Body Board Stacker, 2x6p RM2.54 male, 180°, stack height =21mm	SAMTEC;DW-06-13-T-D-827	1
39	L1	L 10μH ±20% 1.15A SCD0403	YAGEO; SCD0403T-100M-HF	3
40	L2	L 1.5mH 10% 110mA	JINGQUANLI; JCI-2614-1.5mH	1
41	L3	Inductor Choke ≥18mH 0.1A UU9.8	JINGQUANLI; JLF-1566-UU9.8	1
42	L4	L 33uH 20% 0.64A SCD0403	YAGEO;SCD0403T-330M-HF	1
43	L5	R WWR 33Ω 5% 3W 400V ±300PPM	YAGO; KNP3WSJT-7333R	1
44	L6	L 25μH ±10% 1.2A	YAGEO;SCD0503T-250K-HF	1
45	LED1,LED2,LED3,LED4	LED L4.0×W3.95×H3.55 SMD BRILLIANT Y&G	EVERLIGHT;57-21SYGC/S530-E3/TR8	4
46	PCB	PCB Elster SP PLC 4 layers FR4	YanTat;	1
47	Q1,Q3,Q5,Q6,Q7,Q8	Transistor 200mW SOT-23 NPN	GALAXY ELECTRICAL; BC847B PanJit; BC847B	6
48	Q2,Q9	Diode 30V 200mW SOT-23 schottky barrier	GALAXY ELECTRICAL; BAT54S PanJit; BAT54S	2
49	Q4	Transistor 250mW SOT-23 PNP	GALAXY ELECTRICAL; BC857B ZH873; BC857B	1

Elster AM500 PLC BOM			Version	12
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Item	Component	Component Description	Current Manufacturer&Part Number	Qty
1	C1,C5	C 0.1uF 10% 50V 0805 MLCC X7R	YAGEO;CC0805KRX7R9BB104	2
2	C10,C11,C46,C48,C65,C66,C69	C 10uF 10% 16V 0805 MLCC X5R	YAGEO;CC0805KKX5R7BB106	7
3	C13	C 220PF 5% 25V 0402 NPO	YAGEO;CC0402JRNP08BN221	1
4	C14	C 22nF 5% 16V 0402 X7R	YAGEO;CC0402JRX7R7BB223	1
5	C17,C18,C53,C54,C58	C 30PF 5% 50V 0402 MLCC NP0	YAGEO;CC0402JRNP09BN300 EYANG;C0402C0G300J500NT	5
6	C19,C20	C 10PF 5% 50V 0402 NP0	YAGEO;CC0402JRNPO9BN100	2
7	C2	C 1000PF 10% 1000V 1206 MLCC X7R	YAGEO; CC1206KKX7RCBB102	1
8	C22	C 0.22F 5.5V RDLΦ10.5×H5.0×P5.0	PANASONIC;EECS0HD 224V	1
9	C3	C 2200pF 20% 400V AC RDLΦ12×P10 Y5U	HUAXING; CT7Y1E12A222M	1
10	C30,C32,C34,C36,C38,C40,C42,C44,C62,C71	C 1000PF 10% 50V 0402 MLCC X7R	YAGEO;CC0402KRX7R9BB102 EYANG; C0402X7R102K500NT	10
11	C4,C26,C35,C37,C39,C41,C43	C 0.01uF 10% 25V 0402 MLCC X7R	YAGEO;CC0402KRX7R8BB103 EYANG;C0402X7R103K250NT	7
12	C51,C55,C63,C64	C 1500PF 10% 16V 0402 MLCC X7R	YAGEO; CC0402KRX7R7BB152	4
13	C52,C70	C 4.7nF 10% 16V 0402 MLCC X7R	YAGEO; CC0402KRX7R7BB472	2
14	C56	C 1uF ±20% 16V 0603 MLCC Y5V	YAGEO;CC0603MRY5V7BB105	1
15	C57	C 4.7nF 5% 25V 0805 MLCC NPO	YAGEO; CC0805JKNPO8BN472	1
16	C59	C 10uF 10% 25V 1210 MLCC X5R	YAGEO;CC1210KKX5R8BB106	1
17	C6,C12,C15,C16,C21,C23,C24,C25,C27,C28,C29,C31,C33,C45,C47,C49,C50,C67,C68,C72,C76	C 0.1uF 10% 25V 0402 MLCC X5R	YAGEO;CC0402KRX5R8BB104	21
18	C60	C 0.22μF 10% 630VDC W25.0×T8.0×H17.5×F22.5 Metallized Polypropylene	Faratronic; C32P2224J9EC351 OKAYA;HCP630V224K-S-C3.5	1
19	C61	C 470nF 10% 16V 0603 MLCC	YAGEO;CC0603KRX7R7BB474 EYANG; C0603X7R474K160NT	1
20	C7	C 0.01uF 10% 50V 0603 MLCC X7R	YAGEO;CC0603KRX7R9BB103 EYANG;C0603X7R103K500NT	1
21	C73,C74,C75	C 100PF 5% 50V 0402 NPO	YAGEO;CC0402JRNPO9BN101	3
22	C8	C 0.01μF 10%275VAC L13×W4×H9×P10 Metallized Polypropylene	Faratronic; C42P2103K42C450	1
23	C9	C 4.7nF +80%/-20% 2KV RDLΦ9.5×P5 Y5V	HUAXING; CT81-2F4.7K-472Z	1
24	D1	DIODE;HRV ROHS DO-15 5000V 0.2A	GALAXY; R5000 ZH873;R5000	1
25	D2,D4,D5,D6,D11	Diode 1000V 1A SMA SFR	GALAXY; UF1M PanJit; US1M	5

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Elster AM500 PLC BOM			Version	12
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Item	Component	Component Description	Current Manufacturer&Part Number	Qty
78	U3	IC 32bit ARM MCU LQFP64	ST; STM32F103RET6TR	1
79	U4	IC memory SPI Flash 4Mbit SO8W	NUMONYX;M25PE40-VMW6TG	1
80	U5,U6	IC SPI EEPROM 1Mbit M95M01 SO8N	ST;M95M01-RMN6TP	2
81	U7,UP2,UP3,UP4,UP5	Phototransistor diode	AVAGO;HCPL-817-50BE NEC;PS2501AL-1-E3-A	5
82	U8	IC Power Line Carrier Modem s-fsk AMIS49587	ON SEMI;AMIS49587	1
83	U9	IC Amplifiers OPA561 HTSSOP-20	TI;OPA561PWP/2KG4	1
84	VR1	VR 460VAC RDLΦ14×P7.5 Metal Oxide Varistor	JOYIN;JVR14S751K87P70	1
85	XTAL1	Crystal 8MHZ ±20PPM 20PF -40℃~+85℃ ±30PPM SMCE5032 4PADS	INTERQUIP; 5XAA08000202TFA0Q3	1
86	XTAL2	Crystal 32.768KHZ ±20PPM 12.5PF -40℃~+85℃ -0.04PPM/℃^2	EPSON;MC-146	1
87	XTAL3	Crystal 24MHz ±20ppm 12pF -10℃~+70℃ ±30ppm SMCE3225 4pads	INTERQUIP; 5YAA24000122IF50Q3	1
88	Z1,Z2,Z5	Diode 10V 500mW MINI-MELF zener	GALAXY ELECTRICAL; ZMM55-C10	3
89	Z4	Diode 6.8V 600W SMB TVS	GALAXY ELECTRICAL; SMBJ6.0CA PanJit; P6SMBJ6.0CA	1

Elster AM500 PLC BOM			Version	12
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Item	Component	Component Description	Current Manufacturer&Part Number	Qty
50	R1,R4,R5,R6,R10,R12,R17,R18,R19,R20,R21,R22,R25,R26,R27,R34,R36,R38,R39,R40,R41,R42,R43,R44,R46,R47,R49,R56,R57,R58,R65,R68,R69,R72,R73,R82,R84,R87,R90,R92	R 10K 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-0710KL	40
51	R11,R23,R37,R45,R55,R59,R86	R 1K 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-071KL	7
52	R14	R 4.7K 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-074K7L	1
53	R15,R66	R 5.6K 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-075K6L	2
54	R16	R 3.3K 1% 0.0625W 0402 100PPM	YAGEO; RC0402FR-073K3L	1
55	R2,R3,R13,R70,R83,R85	R 2K 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-072KL	6
56	R24	R 270Ω 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-07270RL	1
57	R28,R30,R31,R32,R33,R64,R88	R 510Ω 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-07510R	7
58	R29	R 100Ω 5% 0.1W 0603 100PPM	YAGEO;RC0603JR-07100RL	1
59	R48,R54	R 100K 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-07100K	2
60	R50,R76	R 11K 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-0711KL	2
61	R51,R52,R53	R 68K 5% 0.25W 1206 100PPM	YAGEO; RC1206JR-0768KL	3
62	R60	R 1.6K 5% 0.0625W 0402 100PPM	YAGEO;RC0402JR-071K6L	1
63	R61,R62,R63	R 150K 1% 0.25W 1206 100PPM	YAGEO; RC1206FR-07150KL	3
64	R67	R 20K 5% 0.0625W 0402 100PPM	YAGEO;RC0402JR-0720K	1
65	R7,R8	R 470K 5% 0.25W 1206 200PPM	YAGEO; RC1206JR-07470KL	2
66	R75	R 24K 5% 0.0625W 0402 100PPM	YAGEO; RC0402JR-0724KL	1
67	R77	R 33K 5% 0.0625W 0402 100PPM	YAGEO;RC0402JR-0733K	1
68	R89	R 150Ω 5% 0.0625W 0402 100PPM	YAGEO;RC0402JR-07150RL	1
69	R9	R 15K 5% 0.1W 0603 100PPM	YAGEO;RC0603JR-0715KL	1
70	RP1,RP3,RP4,RP5	R 10K 5% 0.0625W 8pin 200PPM array resistor	YAGEO; YC124-JR-0710KL	4
71	T1	T EE16, Power Transformer N1:N2:N3:N4:N5=11:110:50:10:15	JQL;JBC-5197-EE16-1	1
72	TF1	T SMD >=0.85MH,N1:N2=1:1, Transformer	HITACHI;H93KF1-D	1
73	U1	IC PWM DC-DC SWITCH SO8 ST L5970	ST;L5970D013TR	1
74	U10	IC Amplifiers SA5532 SO8	TI;SA5532D/R	1
75	U12	IC ARRAY FOR ESD PROTECTION ESDA6V1SC6 SOT23-6L	ST;ESDA6V1SC6	1
76	U13	IC Two input OR gate NC7SZ32 SOT23 5-LEAD	FAIRCHILD;NC7SZ32M5X	1
77	U2	IC PWM ROHS&REACH DIP-8C	PI;TNY276PN	1