Documentation folder

Number **T11028-8**
Project number 2357223

Number	Pages	Description	Remark
11028/0-01	1	Markings	Example
11028/4-01	1	Markings	Example (Blindverbrauchszähler)
11028/0-02	1	Type designations	-
11028/0-03	2	Sensor (CT)	-
11028/7-01	2	Sensor (CT) Type ZMCTB82	-
11028/1-01	2	Sensor (DC)	-
11028/7-02	3	Sensor (DC) Type ZMXQD08	-
11028/0-04	1	Housing/exploded view (CT version)	-
11028/0-05	2	Display	-
11028/0-06	2	Error codes	-
11028/0-07	3	Terminal block (CT)	-
11028/1-02	1	Terminal block (DC) 1 screw	-
11028/7-03	1	Terminal block (DC) 2 screws	-
11028/0-08	4	Sealing	-
		MAIN printed cicuit boards:	
		CT version:	
11028/0-09	1	- Assembly (V1.1)	-
11028/3-01	1	- Assembly (V1.2)	-
11028/6-01	1	- Assembly (V1.3)	-
11028/7-04	1	- Assembly (V1.5)	-
11028/0-10	9	- Parts list (V1.18 R01)	-
11028/0-11	9	- Parts list (V1.18 R10)	-
11028/0-12	9	- Parts list (V1.18 R30)	-
11028/3-02	28	- Parts list (V1.2)	-
11028/6-02	18	- Parts list (V1.3)	-
11028/7-05	17	- Parts list (V1.5)	-
		DC version:	
		Main printed circuit board:	
11028/1-03	2	- Assembly (V2.0)	-
11028/1-04	8	- Parts list (V2.0.2)	-
		Power Supply boards:	

Documentation folder

Number **T11028-8**
Project number 2357223

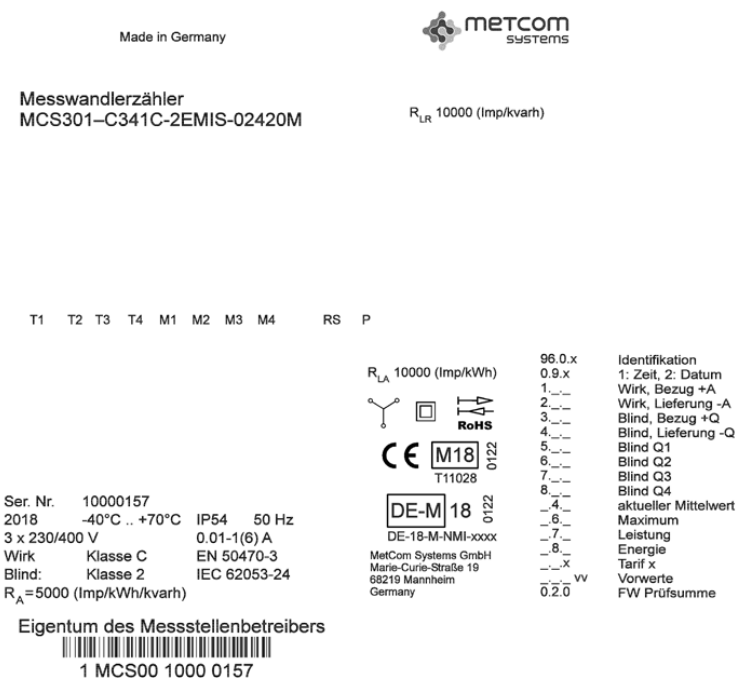
Number	Pages	Description	Remark
		CT version:	
11028/7-06	1	- Assembly (V1.3)	-
11028/7-07	1	- Parts list (V1.3)	-
		DC version:	
11028/7-08	1	- Assembly (V1.1)	-
11028/7-09	3	- Parts list (V1.1)	-
		Single power supply:	
11028/0-13	2	- Assembly	-
11028/0-14	2	- Parts list (230V)	-
11028/0-15	2	- Parts list (58 V)	-
		Wide range power supply (58 .... 240 V):	
11028/2-01	1	- Assembly V1.1	-
11028/5-01	1	- Assembly V1.2	- 277V
11028/2-02	3	- Parts list (with aux power supply)	-
11028/2-03	4	- Parts list (without aux power supply)	-
		Additional information	
11028/4-02	8	List of protected parameters	-Only applicaple for Baumusterpüfbescheinigung/ Blindverbrauchszähler

NMi

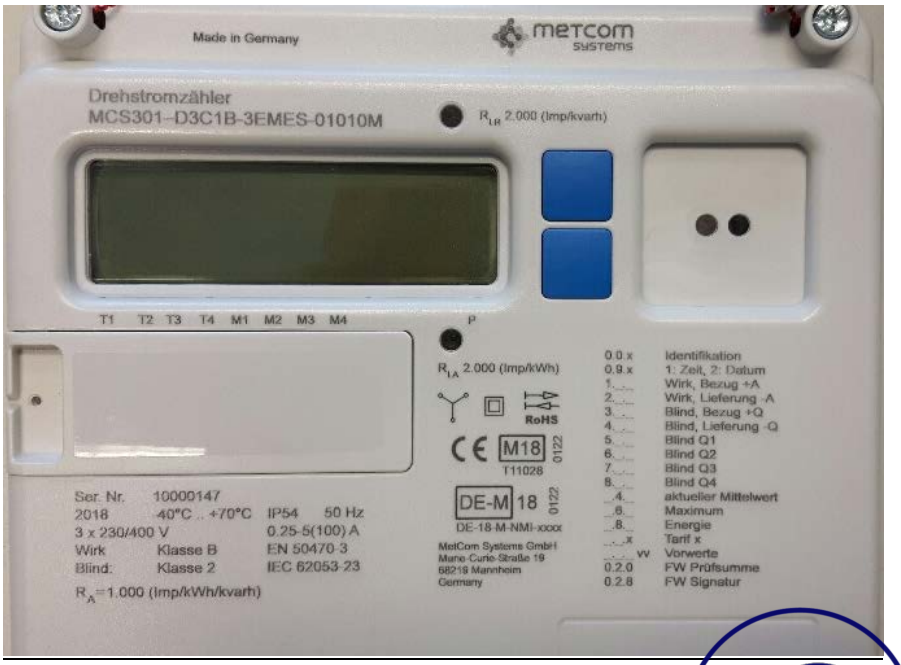
Doc no	11028/0-01
Page	1 of 1

Markings **MetCom Systems MCS301**

CT variants:



Direct connected variants:



32 Type key

MCS301 - _ _ _ _ _ - _ _ _ _ - _ _ _ _

C
D

Connection Type:
Transformer rated meter
direct connected meter

Nominal Voltage and Network Type

1
3
5
W

3 x 58/100 V or 3 x 63/110 V (4-wire, 3 systems)
3 x 230/400 (4-wire, 3 systems)
3 x 220/380 or 230/400 (4-wire, 3 systems)
3 x 58/100 V...3x 240/415 V (4-wire, 3 systems)

Nominal Current:

1
2
3
4
5
A
B
C
E
F
G

1 (2) A
5 (6) A
5//1 A or 1 (6) A
1 (10) A
5 (10) A
5 (60) A
5 (80) A
5 (100) A
10 (60) A
10 (80) A
10 (100) A

Frequency:

1
2

50 Hz
60 Hz

Accuracy Class:

2
C
B
A

Active energy, +A class 0.2S (IEC 62053-22)
+A energy, cl. 0.5S, C (EN 62053-22, EN50470- 3)
+A energy, class 1, B (EN 62053-21, EN50470-3)
+A energy, class 2, A (EN 62053-21, EN50470-3)

Measured Quantities:

1
2
3

Active energy only
Active energy and reactive energy
Active, reactive, apparent energy

Memory size:

A
E

Standard
Extended

Structure:

M
I

Modular for external communication modules
closed (basis) version

Battery:

I
E

Internal battery for buffering real time clock
Internal and external battery (RWP)

Communication Interface:

O
S

only optical interface
optical and RS485 interface

Additional Functions

x x x x x

control inputs (0 .. 2)
electronic outputs (S0-Standard) (0 .. 2)
electronic outputs (230 V, 100 mA) (0 .. 4)
bistable relays (I_{max} 10A) (0 .. 2)

0 0 0 0 2 2
0 0 2 1 0 2
0 4 0 4 4
0 0 2 1 0 2

2 outputs (S0)
4 electronic outputs (230 V)
2 electronic outputs (S0) / 2 relays
1 electronic output (S0) / 1 relays
2 inputs/2 S0 outputs / 4 outputs (230 V)
2 input/2 S0 output/4 outputs (230 V)/ 2 relays

0
1

no auxiliary power supply
with auxiliary power supply (48-230V AC/DC)

M
0

Wired M-Bus Master (EN 13757-2)
no wired M-Bus

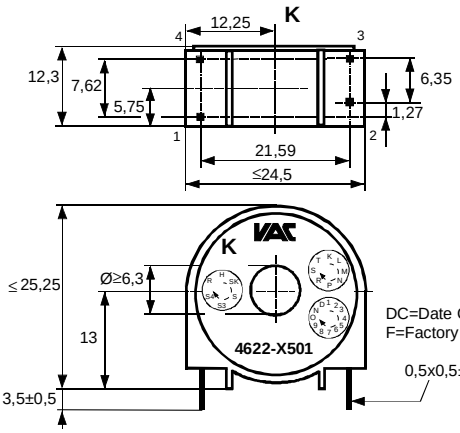
Remark: for the direct connected meter the number of I/0 is limited to

- RS485 interface
- Wired M-Bus interface
- 1x S0 output
- 1x mech. Relay output (10A)

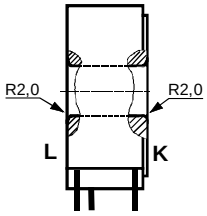
VACUUMSCHMELZE	**DATENBLATT / Specification**	**Sach Nr.:** **T60404-E4622-X501** Item no.:

K-Nr.: 22461 K-no.:	Wechselstromwandler / Current Transformer	Datum: 24.11.2010 Date:
Kunde: Typenelement / Standard Type Customer	Kd. Sach Nr.: Customers part no.:	Seite 1 von 2 Page of

Maßbild (mm): Mechanical outline
Freimaßtoleranz DIN ISO 2768-c
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 R_{Cu2} ≤ 126 Ω

Siehe Bemerkung 3) auf Seite 2 / see remark 3) on page 2

Umgebungstemperatur/ambient temperature: -40°C ..+85°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
24.11.10	HL	82	Remark 3) on page 2 implemented. Lapidary change.
01.09.10	HL	82	Pin tolerance +/-0,03mm specified and ambient temperature changed from +70° into +85°. Lapidary change.

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

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

K-Nr.: 22461 K-no.:	Wechselstromwandler / Current Transformer	Datum: 24.11.2010 Date:
Kunde: Typenelement / Standard Type Customer	Kd. Sach Nr.: Customers part no.:	Seite 2 von 2 Page of

Typprüfung:
Type test:

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

2) Stoßspannungsprüfung in Anlehnung an M3064
HV transient test according to M3064

N2 gegen Durchsteckdorn (∅ 6,0mm) / N2 to currentwinding

Einstellwerte: 1,2 µs / 50 µs-Kurvenform (waveform)
Settings $U_{P,max}$ = 6 kV

Messungen nach Temperaturangleich der Prüflinge an Raumtemperatur
Measurements after temperature balance of the test samples at room temperature

Bemerkung:
Remark:

1) Dieses Produkt ist durch eines oder mehrere Patente geschützt, u.a/
This product is protected by one or more patents, including
US 6663815, EP 1105893; US 6507262, EP 1131830, KOR 606515

2) The resistance to alcohols and similar detergents of the component is restricted
When performing washing procedures own tests are recommended.
Das Bauelement besitzt eine eingeschränkte Beständigkeit gegen Alkohole und ähnliche Reinigungsmittel.
Bei Waschprozessen empfehlen wir die Durchführung von eigenen Tests.

3) Dieses Bauelement wurde ursprünglich für Anwendungen mit folgenden typischen Betriebsbedingungen ausgelegt: / This component has been designed for applications where the typical operating conditions are:

f = 50 Hz, I_{max} = 6 A, R_B = 100 Ohm, U_B (I_{max}) = 300 mV_{rms}
f = 60 Hz, I_{max} = 20A, R_B = 30 Ohm, U_B (I_{max}) = 300 mV_{rms}

Es kann jedoch auch bei abweichenden Betriebsbedingungen eingesetzt werden wie z.B. /
It may be used as well in applications where the operating conditions are different, like e.g.

f = 60 Hz, I_{max} = 50 A, R_B = 10 Ohm, U_B (I_{max}) = 250 mV_{rms}

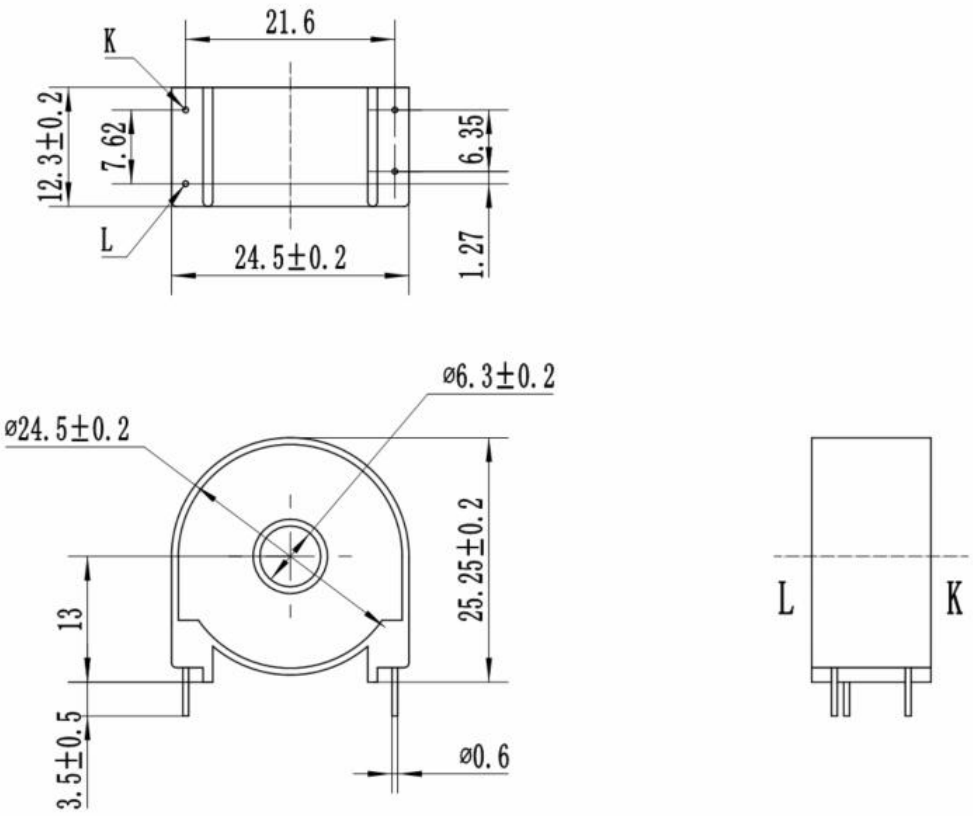
Derartige spezielle Betriebsbedingungen sind im Einzelfall auf Anfrage zu vereinbaren und in der jeweiligen Schaltung zu erproben / Special operating conditions have to be agreed upon request and to be tested in the application circuit

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

ZMCT182 Current Transformer

Small size, high accuracy, good consistency, for current and power measurement

Structural parameters:



The main technical parameters:

Model	ZMCT182
input current	0~50A (10Ω)
Rated output current	2.5mA at 5A
turns ratio	2000:1
phase angle error	≤20′ (input 5A, sampling resistor 10Ω)
Accuracy class	1.0
Permissible error	-1%≤f≤+1% (input 5A, sampling resistor 10Ω)
isolation voltage	4500V
application	current and power measurement
Encapsulation	Epoxy
installation	PCB mounting
operating temperature	-40℃~+85℃

Direction for use:

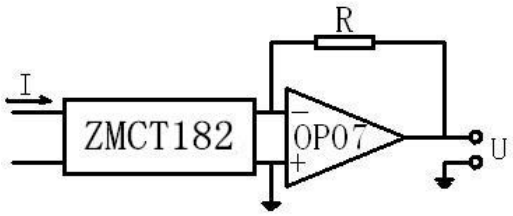


Figure Ⅰ

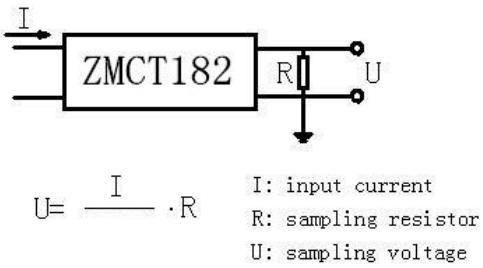


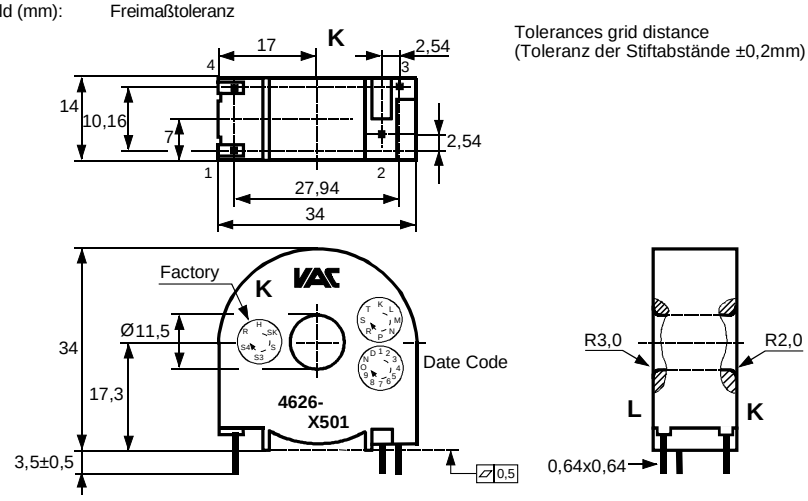
Figure Ⅱ

1. ZMCT182 used for measurement. Typical usage is shown in Figure 1 and Figure 2. R is a sampling resistor.
2. Empty pin can not be grounded.

VACUUMSCHMELZE	**Specification / DATENBLATT**	**Item No.:** **T60404-E4626-X501** Sach-Nr.:

K-No.: 22369 K-Nr.:	Current Transformer / Wechselstromwandler	Date: 17.01.2011 Datum:
Customer: Standard Type / Typenelement Kunde	Customers part no.: Kd. Sach Nr.:	Page 1 of 2 Seite von

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



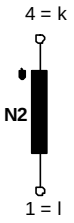
Tolerances grid distance
(Toleranz der Stiftabstände ±0,2mm)

Connections:
Anschlüsse:

Dummy pins
Leerstifte:

2, 3

Schematic diagram
Anschlußschema:



ü = (1) : 2500

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

R_{Cu2} = 44 Ω
$I_{max, rms}$ = 100 A (acc. to IEC 62053-21)
$I_{peak, 0p}$ = 100 A (acc. to IEC 62053-21)

f = 50 Hz
R_B = 7,5 Ω

ambient temperature/Umgebungstemperatur: -40°C ..+70°C
storage temperature/Lagertemperatur: -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 vs/gegen Current winding (∅ 9,0mm)/Durchsteckdorn

2) (AQL 0,25) M3011/1 L_2 = 2,1 H ± 17%, f = 50 Hz, $U_{AC,eff}$ =100 mV

3) (V) M3011/6 Special measuring (Current transformer measuring instrument N4):
Sonderprüfung (Stromtrafoprüfgerät N4):

Polarity / Turns ratio: Tolerance ± 1% (± 25 turns)
Polarität / Übersetzungsverhältnis: Toleranz ± 1% (± 25 Wdg.)

4) (Fix 05) M3290: Solderability test acc. to chapter 1
Lötbarkeitstest nach Abschnitt 1

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

See page 2
Siehe Seite 2

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

Datum	Name	Index	Änderung
17.01.11	Ert.	82	Remark 3 on page A2 added. Lapidary change.

Hrsg.: KB-E editor	Bearb: HL designer		KB-PM B: Pf. check			freig.: Pe. released

VACUUMSCHMELZE	**Specification / DATENBLATT**	**Item No.:** Sach-Nr.:	**T60404-E4626-X501**

K-No.: 22369 K-Nr.:	Current Transformer / Wechselstromwandler	Date: 17.01.2011 Datum:
Customer: Standard Type / Typenelement Kunde	Customers part no.: Kd. Sach Nr.:	Page 2 of 2 Seite von

Typprüfung:
Type test:

1) M3014: $U_{p,eff}$ = 4,0 kV, 1 min , N2 vs/gegen Current winding (∅ 9,0mm)/Durchsteckdorn

2) HV transient test according to M3064
Stoßspannungsprüfung in Anlehnung an M3064

N2 vs Current winding (∅ 9,0mm)/N2 gegen Durchsteckwindung

Settings: 1,2 µs / 50 µs-waveform (Kurvenform)
Einstellwerte: $U_{P,max}$ = 6 kV

Measurements after temperature balance of the test samples at room temperature
Messungen nach Temperaturangleich der Prüflinge an Raumtemperatur

Remark:
Bemerkung

1) This product is protected by one or more patents, including /
Dieses Produkt ist durch eines oder mehrere Patente geschützt, u.a
US 6663815, EP 1105893

2) The resistance to alcohols and similar detergents of the component is restricted.
When performing washing procedures own tests are recommended.
Das Bauelement besitzt nur eine eingeschränkte Beständigkeit gegen Alkohole und ähnliche Reinigungsmittel.
Bei Waschprozessen empfehlen wir die Durchführung von eigenen Tests.

3) This product has been designed for use in electricity meters that have to meet the requirements of IEC 62053-21 and EN 50470-3. By using this product, the following supplementary conditions ("realistic load conditions") can easily be met:

a) Supplementary condition to IEC 62053-21 Table 8

Influence quantity	Value of current for direct connected meters	Power Factor	Limits of variation in percentage error for meters of class	
			1	2
DC and even harmonics in the a.c. current circuit	$\frac{I_{max}}{\sqrt{2}}$	1 0.5 inductive	3.0	6.0

b) Supplementary condition to EN50470-3 Table 9

Disturbance	Value of current for direct connected meters	Power Factor	Critical change value for meters of class index, %		
			A	B	C
DC and even harmonics in the a.c. current circuit	$\frac{I_{max}}{\sqrt{2}}$	1 0.5 inductive	± 6.0	± 3.0	± 1.5

Hrsg.: KB-E editor	Bearb: HL designer		KB-PM B: Pf. check			freig.: Pe. released

Approval Sheets

Approved by

Item : 100A DC immune CT

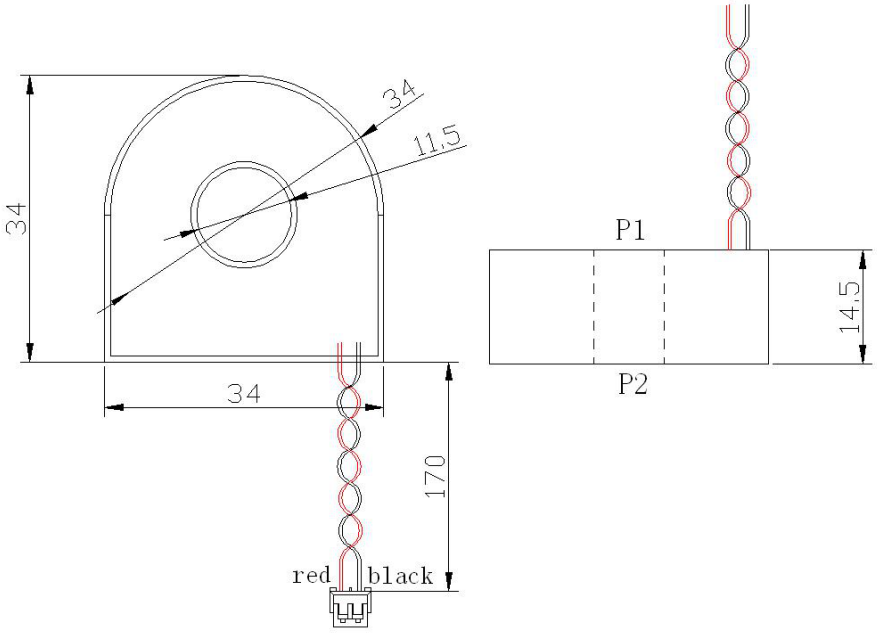
Model No.: ZMXQD08

Drawn by	Check by	Approved by
		Signed

1. Specification

Characteristics	Values
Operating frequency	50 Hz ~ 400 Hz
Operating temperature	-40℃ ~ 85℃
Relative humidity	≤95%
Rated primary current *Ip*	100A
Maximum primary operating current Imax	100A
Testing current for DC component 100A/Root 2	＜3%
Rated second current	40mA
Transformation ratio	2500:1
User supplied burden resistor	10Ω
HI-POT (center OD hold to leadwire)	3000Vrms, 1min.
Insulation resistance	>500MΩ/500Vdc
Accuracy class	1.0class

2. Structure and Size

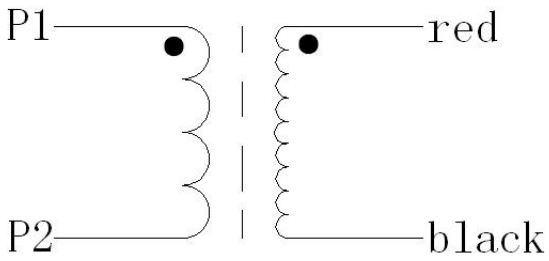


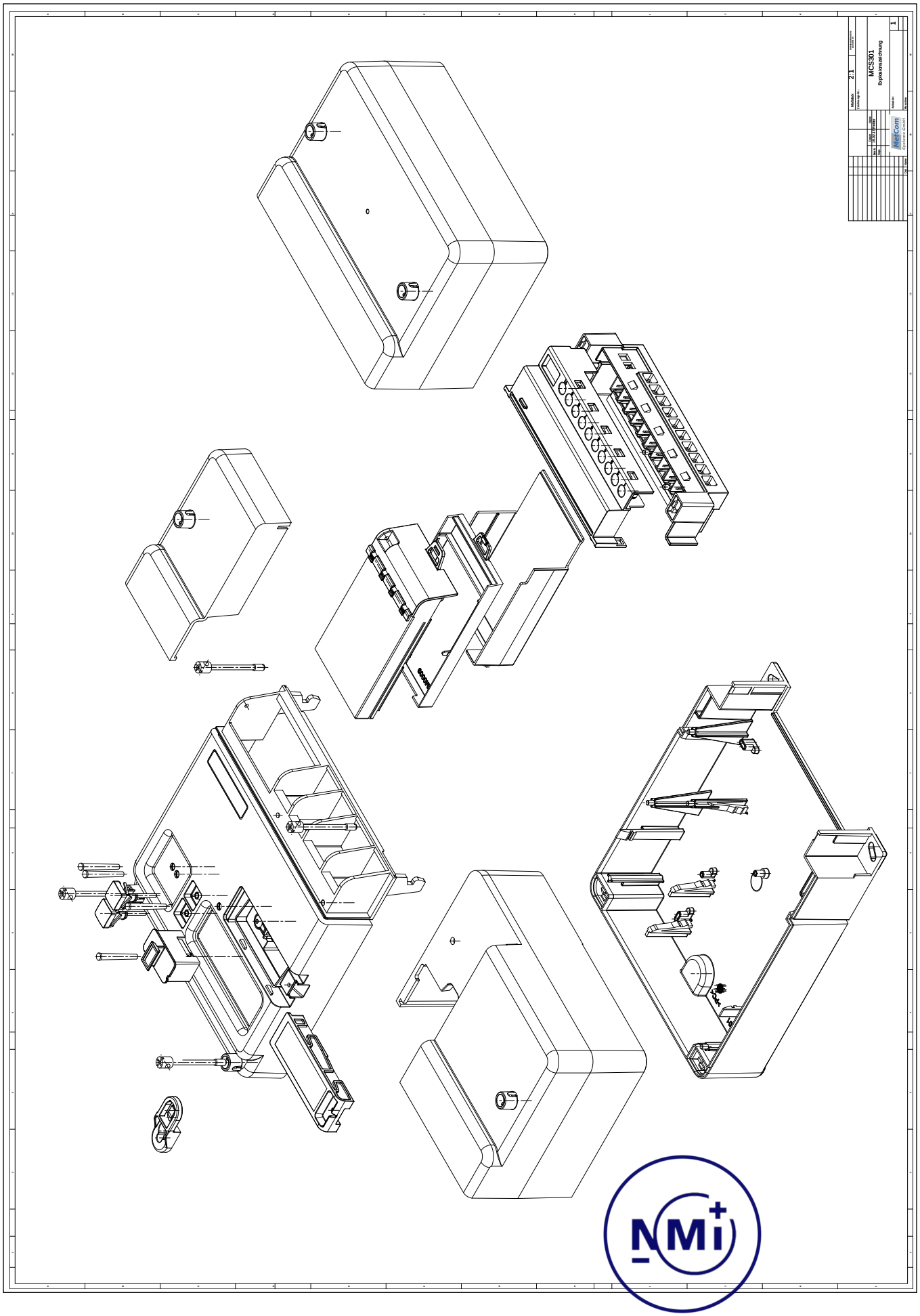
Leads out : Flex UL 1569, AWG26, 300V Rating, 105℃. 170±5mm long out of traf o with 5mm tinned ends

Dimension unit: mm, Dismensional Tolerace: ±0.2mm(Unless specificed)

Connector: 1.5pitch

3. Circuit Schmatic





Doc no	**11028/0-04**
Page	1 of 1

6 Display Control

6.1 Display

The LCD of the meter should have the following format:

- LCD size: 80mm x 24,5mm
- Digit size: 8mm x 4,0mm
- Digit size (OBIS code): 5,5mm x 2,8mm

The digits for the LC display of the MCS301 you will find in Fig 15:

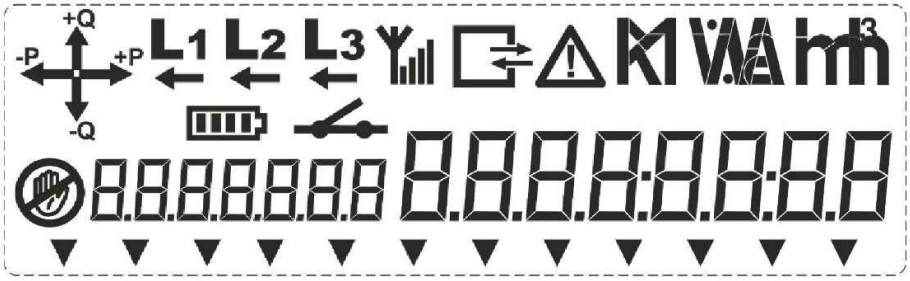


Figure 15: display of the meter

8.8.8.8.8.8.8.8	Value range (8 digits), separated by dots and top dots
8.8.8.8.8.8.8	OBIS codes (7 digits), separated by dots
	Tampering symbol
▼ ▼ ▼ ▼ ▼ ▼ ▼ ▼	Configurable arrows (max. 12), example
	Activated energy tariff indication (T1 … T8)
	Activated demand tariff indication (M1 .. M4)
	Test mode indication
	Tariff control by internal clock
	Status of 2 load control relays (ON/OFF)
	EOI, end of interval
	Load profile activated
	Display of successful communication of M-Bus since last 24h
	Indication of legally relevant data (arrow no 12)

	Low battery symbol (symbol)
	Status of disconnector (3 symbols)
	Status of GPRS signal strength (4 symbols), 1-4 symbols will be displayed depending on the signal strength
	alarm symbol or demand exceed (1 symbol)
	3ph energy flow indication (4 symbols) for active and reactive energy import and export +P means energy means that the utility is delivering energy
L1 L2 L3	Phase voltage indication (3 symbols), ON means present Present status of phase voltage, wrong rotation field => all symbols are blinking
	Indication of reverse energy flow per phase (3 symbols)
	Communication indication (1 symbol), active if communication on optical or any electrical interface
kWAh	Display of Units: kWh, kW, kvarh, kvar, kVAh, kVA (same in MW..) A, kA, V, kV, Hz, %, m^3

Table 1: list of display items

6.1.1 Back lightened display

The display can optionally be back-lightened to be readable under dark reading conditions. The back lightened display will be activated for a configurable time (5..255s) by pressing the alternate or the demand reset button.
This feature will be available even if the meter is not connected to the main power.

6.1.2 Optical display scrolling

In case the meter is installed in a meter box, without having direct access for reading the meter data, the MCS301 meter data can be read on the LCD by using a flash light, which should be lightened on the optical sensor of the optical interface.
With this flash light the reader has the same functionality as by using the alternate button.

23 Security functions

23.1 Status and Fatal Error messages

The status of the alarm and Fatal error register can be displayed on the LCD or readout through the optical or electrical interface. The Alarm Register is intend to log the occurrence of any alarms. This is a four bytes register. If any alarm occurs, the corresponding flag in alarm register is set. All alarm flags in the alarm register remain active until the alarm registers are cleared.

23.1.1 Display of alarm register 1

OBIS code of the alarm register 1: **0-0:97.98.0**

The bit assignment of the alarm register 1 is shown below

Bit	Alarm Description
0	Clock Invalid
1	Battery Replace
2	Reserved
3	Reserved
4	Reserved
5	Reserved
6	Reserved
7	Reserved
8	Program Memory Error
9	RAM Error
10	NV Memory Error
11	Measurement System Error
12	Watchdog Error
13	Fraud Attemp
14	Reserved
15	Reserved
16	M-bus Communica on Error Ch1
17	M-bus Communica on Error Ch2
18	M-bus Communica on Error Ch3
19	M-bus Communica on Error Ch4
20	M-bus Fraud A empt Ch1
21	M-bus Fraud A empt Ch2
22	M-bus Fraud A empt Ch3
23	M-bus Fraud A empt Ch4
24	Permanent Error M-bus Ch1
25	Permanent Error M-bus Ch2
26	Permanent Error M-bus Ch3
27	Permanent Error M-bus Ch4
28	Battery low on M-bus Ch1
29	Battery Low on M-bus Ch2
30	Battery Low on M-bus Ch3
31	Battery Low on M-bus Ch4

Table 45: Alarm register 1

23.1.2 Display of alarm register 2

The OBIS code of the alarm register 2 is: **0-0:97.98.1**

The bit assignment of the alarm register 2 is shown below

Bit	Alarm Description
0	Power Down
1	Power Up
2	Voltage Missing Phase L1
3	Voltage Missing Phase L2
4	Voltage Missing Phase L3
5	Voltage Normal Phase L1
6	Voltage Normal Phase L2
7	Voltage Normal Phase L3
8	Missing Neutral
9	Phase Asymmetry
10	Current Reversal
11	Wrong Phase Sequence
12	Unexpected Consumption
13	Key Exchanged
14	Bad Voltage Quality L1
15	Bad Voltage Quality L2
16	Bad Voltage Quality L3
17	External Alert
18	Local Communication Attempt
19	New Mbus Device Installed Ch1
20	New M-bus Device Installed Ch2
21	New M-bus Device Installed Ch3
22	New M-bus Device Installed Ch4
23	Reserved
24	Reserved
25	Reserved
26	Reserved
27	M-bus Valve Alarm Ch1
28	M-bus Valve Alarm Ch2
29	M-bus Valve Alarm Ch3
30	M-bus Valve Alarm Ch4
31	Disconnect/Reconnect Failure

Table 176: Alarm Register 2

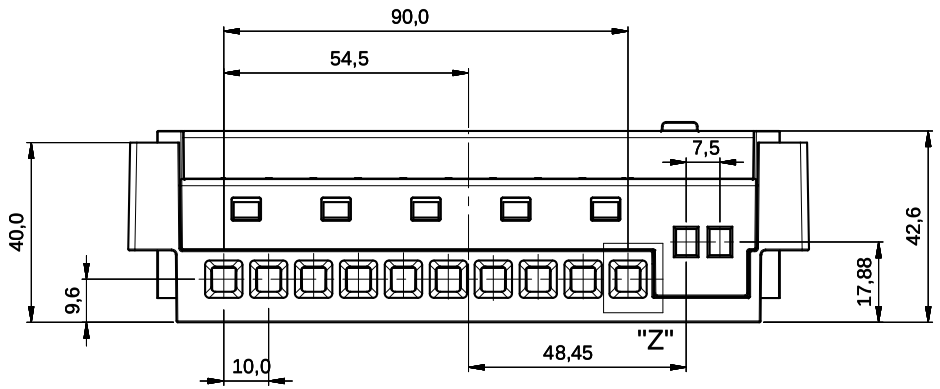
23.1.3 Display of Fatal Error register

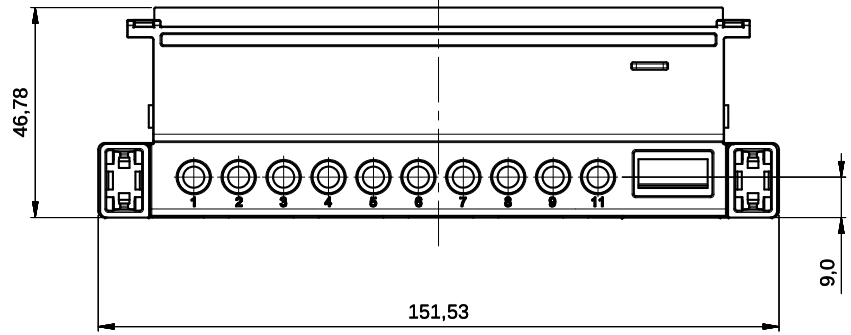
The OBIS code of the error message register is: **0-0:97.97.1**

The bit assignment of the Fatal error register is shown below

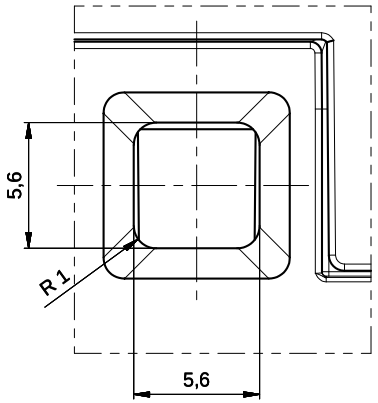
Bit	Alarm Description
0	Reserved
1	Reserved
2	Program Memory Error
3	RAM Error
4	NV Memory Error
5	Measurement System Error
6	Watchdog Error
7	Reserved

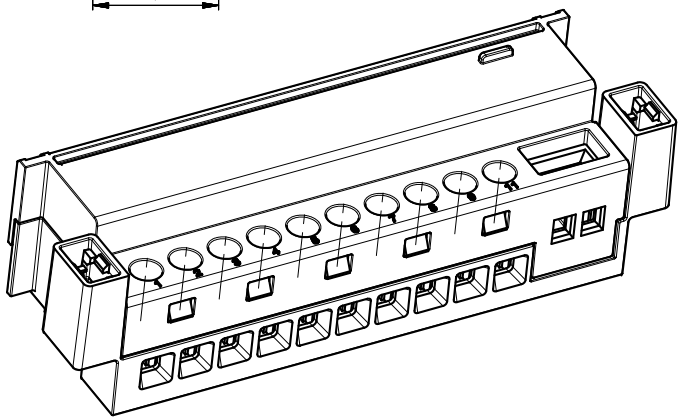
Table 47: Fatal error messages





Detail "Z" (5:1)





						Maßstab: 1:1	Urheberrechtsschutz nach DIN 34
						Zeichnungs-Nr.:	
				Datum	Name		
			Bearb.	10.02.17	Reiber	Zähler MCS301 Klemmenblock Wandler	
			Gepr.				
						Artikel-Nr.:	2
		Dat.	Name			Maschine:	

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REV.	A

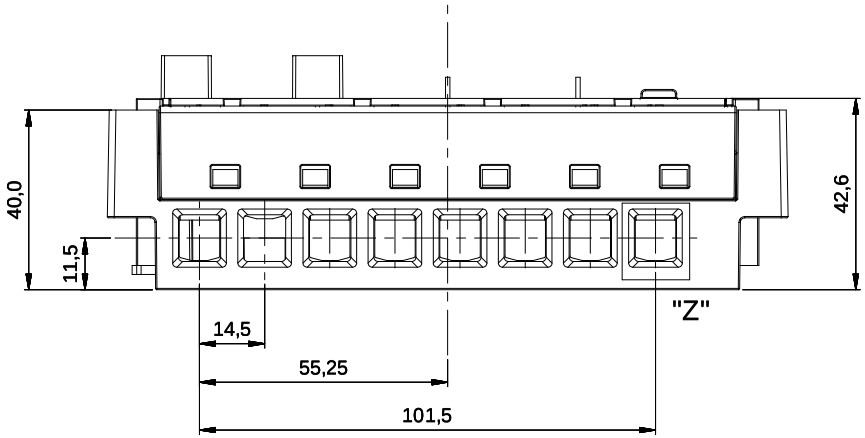
MetCom Systems GmbH

Designed by WS	MM0011
galvanized steel 4,8	
	Unit: mm
Freigabe 15.08.2016	Sheet 1 of 1

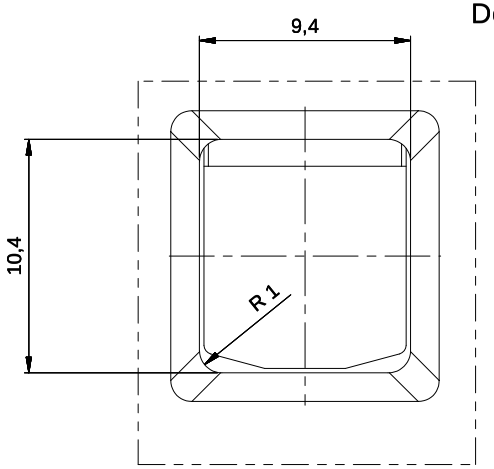
REV.	B

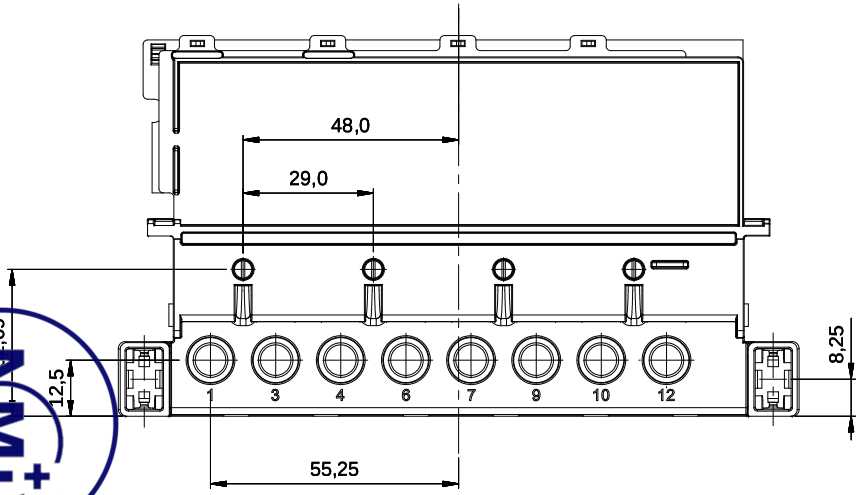
MetCom Systems GmbH

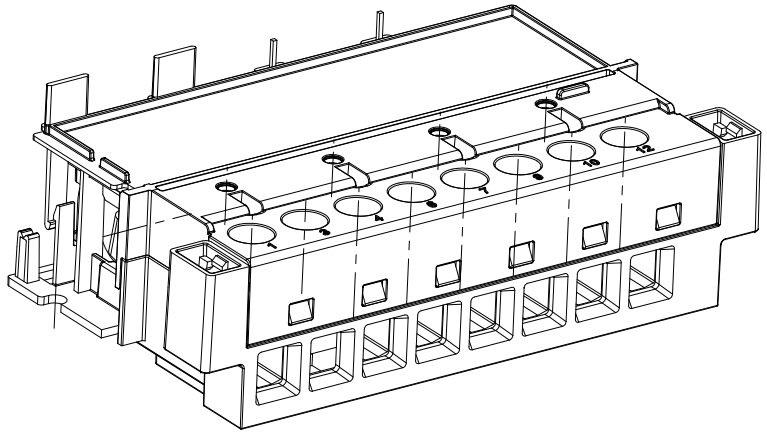
Designed by WS	MM0025
CuZn39Pb2zh	
Freigabe 11.10.2016	Unit: mm
	Sheet 1 of 1



Detail "Z" (5:1)







						Maßstab: 1:1	Urheberrechtsschutz nach DIN 34
						Zeichnungs-Nr.:	
				Datum	Name		
			Bearb.	19.11.17	Reiber	Zähler MCS301 DC Klemmenblock	
			Gepr.				
						Artikel-Nr.:	1
		Dat.	Name			Maschine:	

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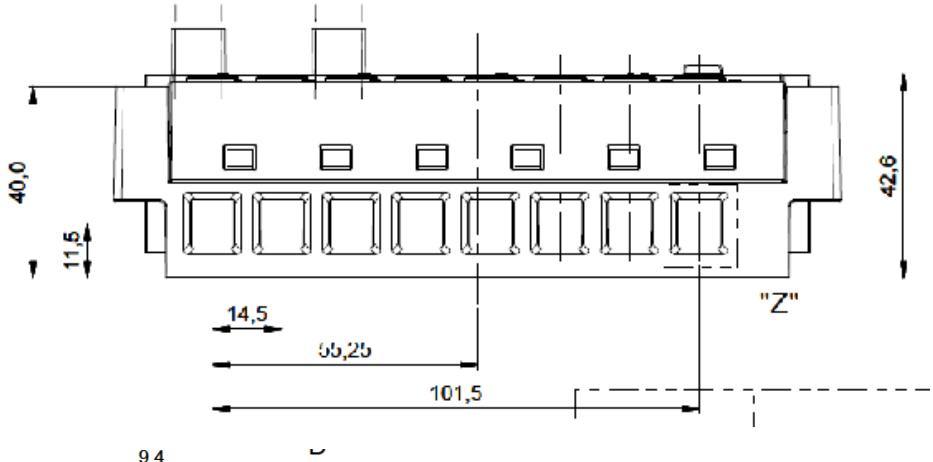

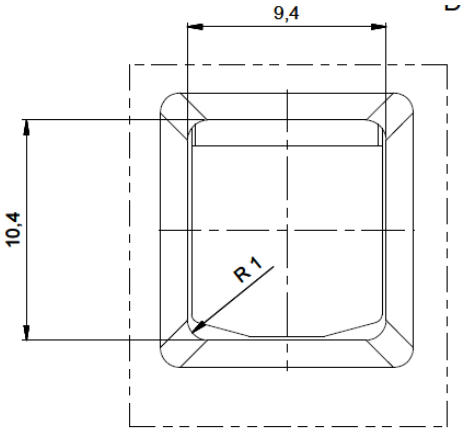

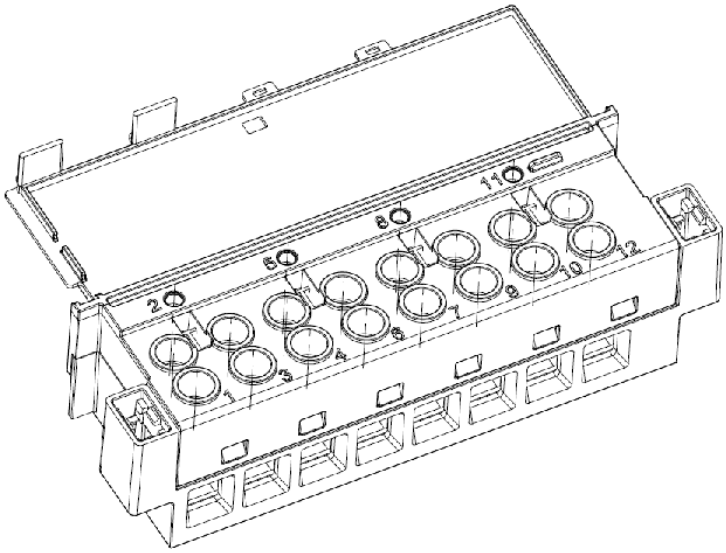

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1 Overview

The MCS301 meter can be sealed by different type of sealings:

- PIN Seal
- Plastic seal

1.1 Pin Sealing

Below figure shows the used Pin seal type

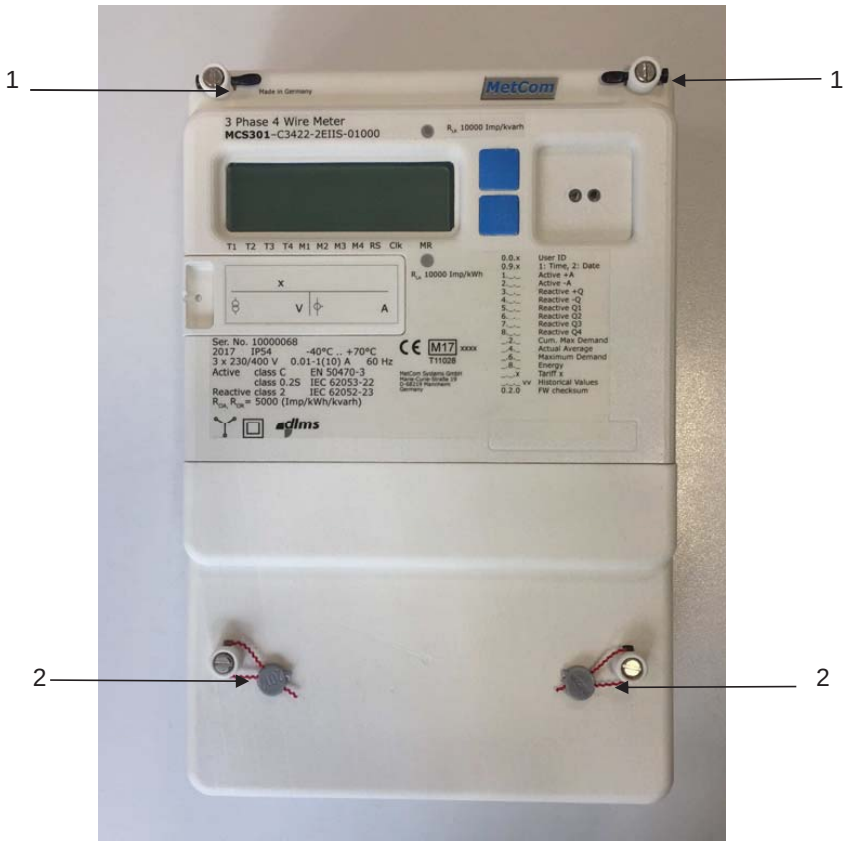


Figure 1: Meter with Certification PIN seal and plastic Utility seal

1 - certification seal
2 - utlity seal

Figure 2: Meter with Certification PIN seal

1.2 Plastic Sealing

Below figure shows the used Plastic seal type

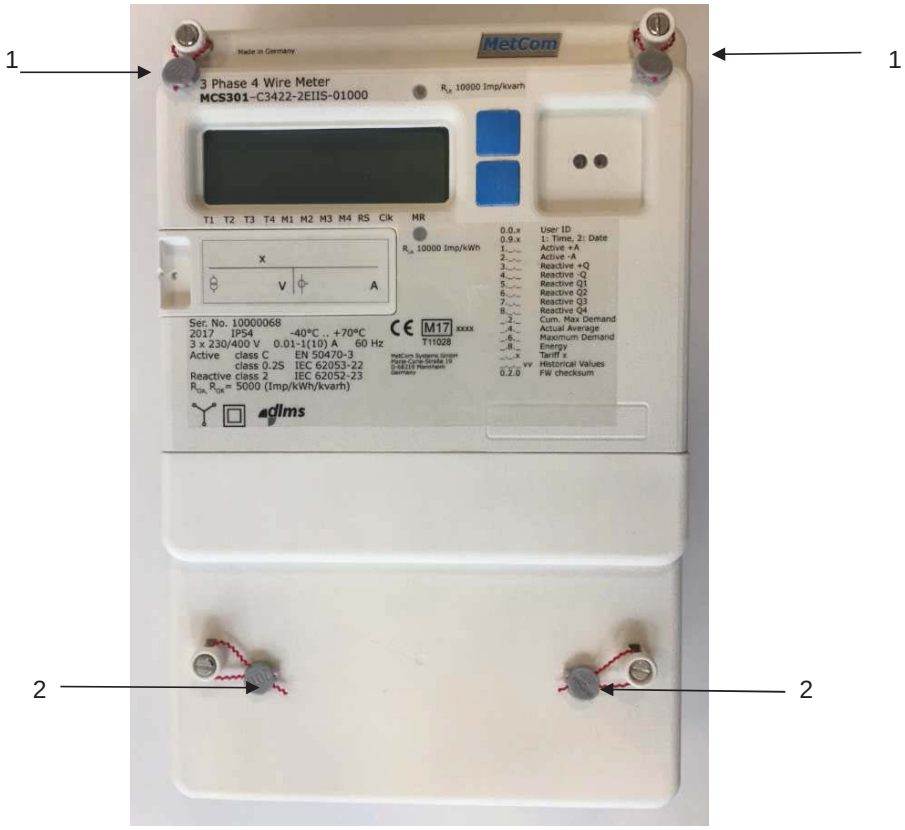


Figure 3: Meter with Certification Plastic seal and Plastic Utility seal

1 - certification seal
2 - utlity seal

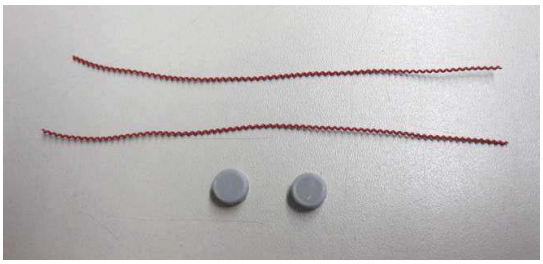
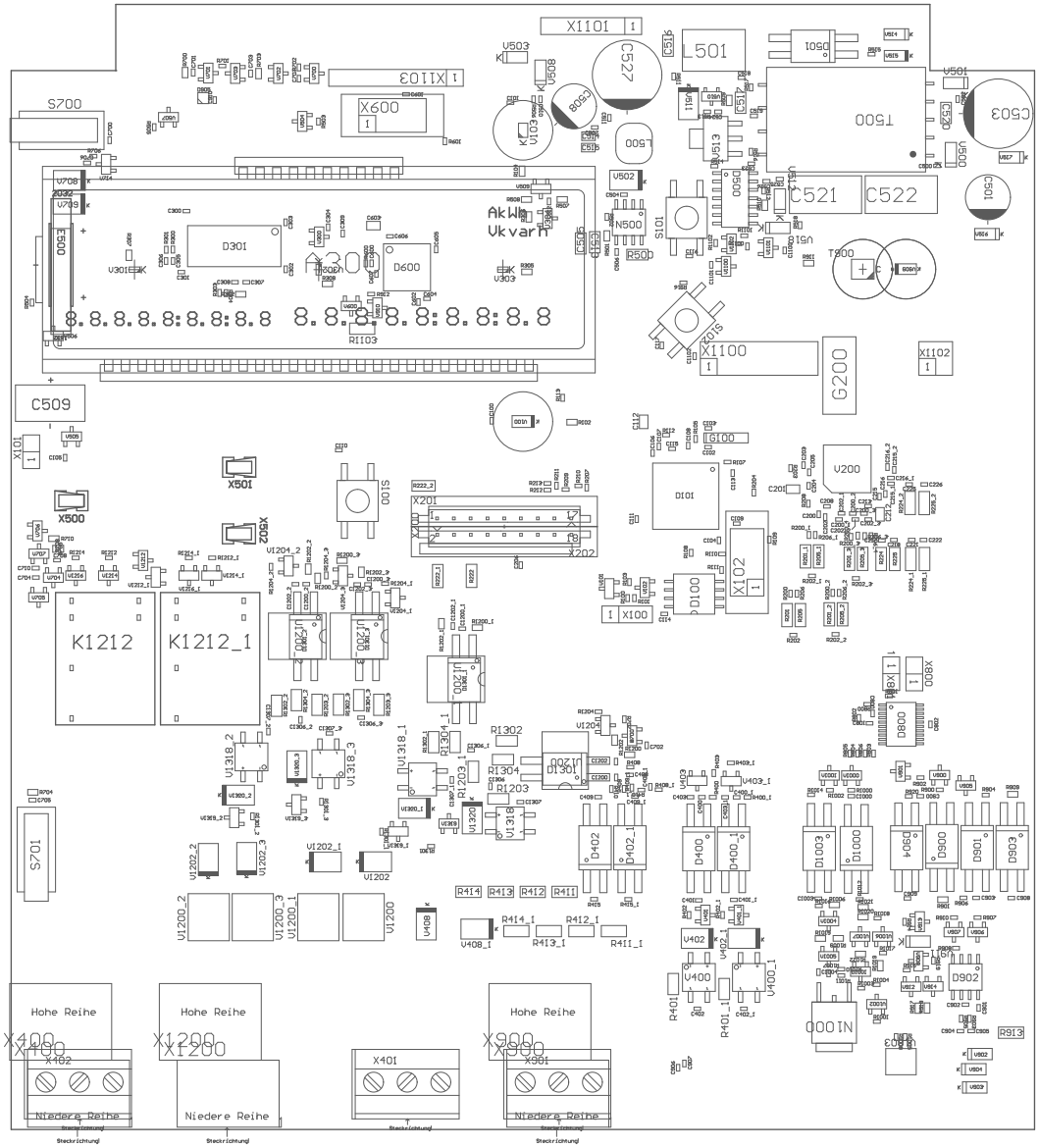


Figure 1: Plastic sealing - standard



Assembly Top

Legende

Customer: MetCom Systems GmbH		Project Name: MCS301-V1.1.PcbDoc	Variant: [No Variations]
	Last Change: 07.02.2017	BMK Proj. Name: sol637rb1	Designed by: SSchm
	Revision No.: Ver1.1	BMK PCB No.: 15-7378-1	Checked by: SSchm
	Design Path:		

SCALE: 1.00

Date: 07.02.2017 Time: 13:57:15

BMK electronic solutions

Doc no 11028/0-09

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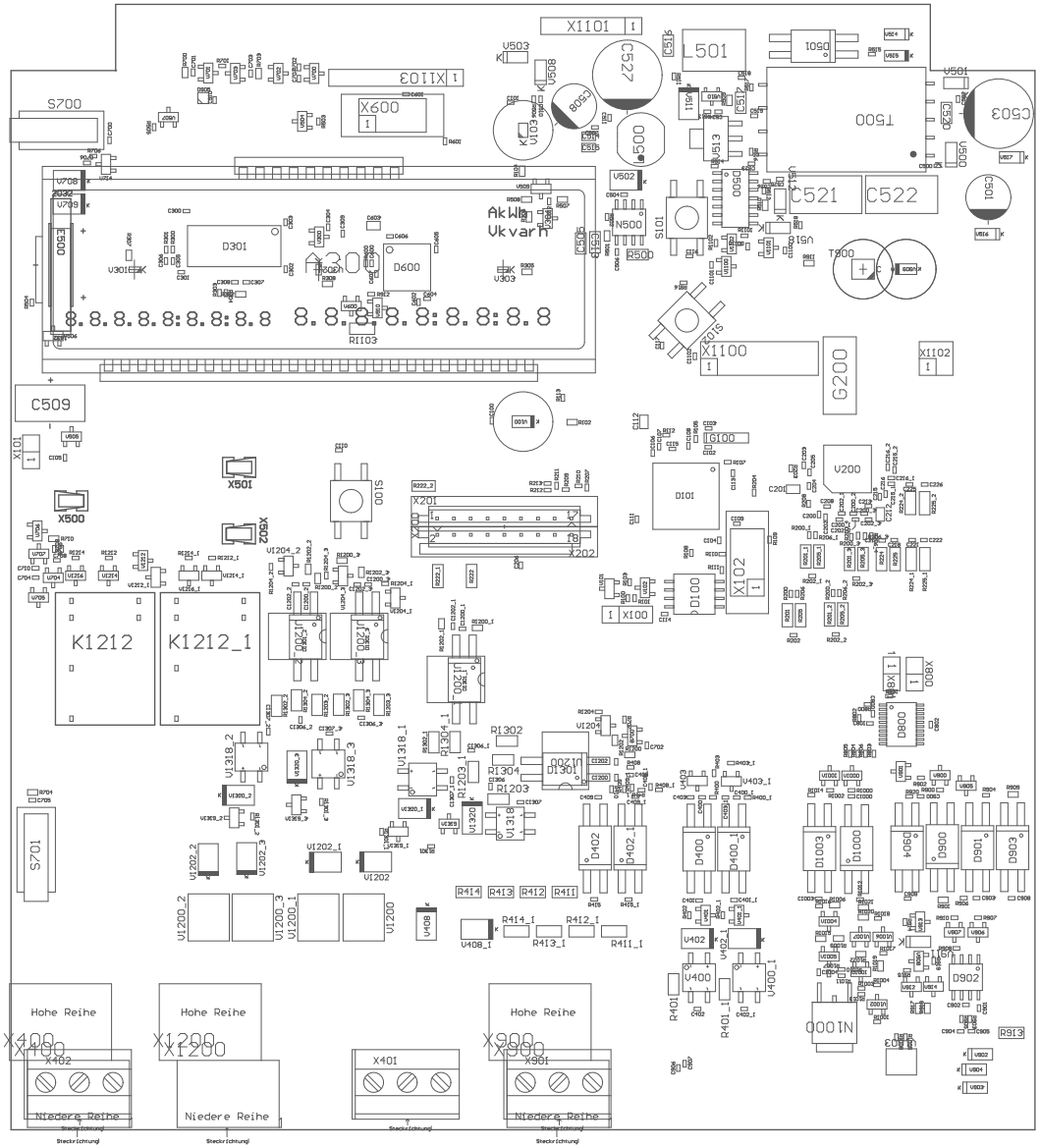

Assembly Top

Legende

Customer: MetCom Systems GmbH		Project Name: MCS301-V1.2.PcbDoc	Variant: [No Variations]
	Last Change: 06.03.2018	BMK Proj. Name: sol637rb1	Designed by: SSchm	SCALE: 1.00
	Revision No.: Ver1.1	BMK PCB No.: 15-7378-1	Checked by: SSchm	Date: 06.03.2018 Time: 14:48:25
	Design Path:			

BMK electronic solutions

NMi

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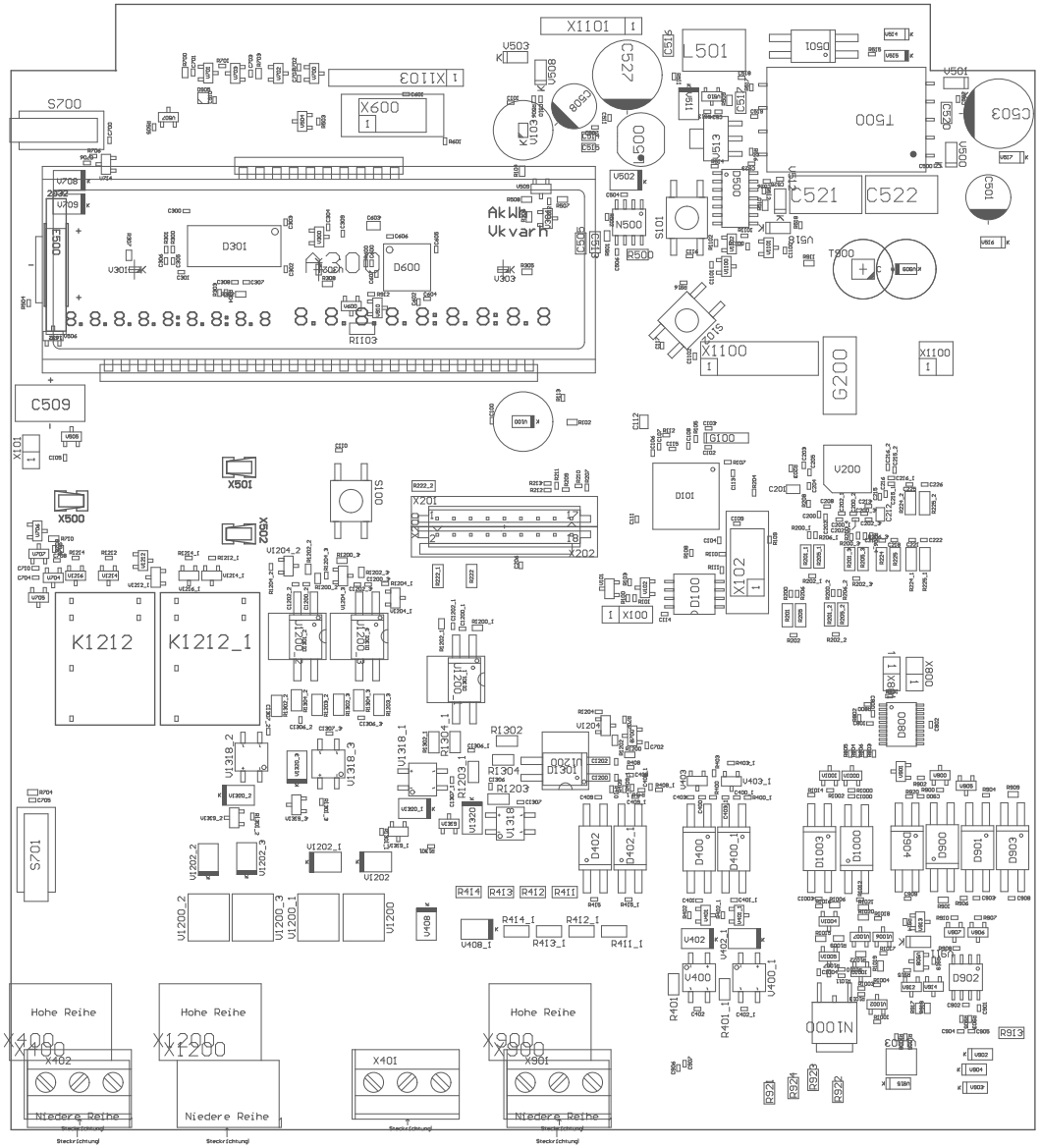

Assembly Top

Legende

Customer:		Project Name: MCS301-V1.3_20180813.PcbDoc		Variant: [No Variations]	
MetCom Systems GmbH	Last Change: 22.11.2018	BMK Proj. Name: sol637rb1	Designed by: SSchm	SCALE: 1.00	BMK electronic solutions
	Revision No.: Ver1.1	BMK PCB No.: 15-7378-1	Checked by: SSchm	Date: 22.11.2018 Time: 15:13:17	
	Design Path:				

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Doc no	**11028/7-04**
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Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
A300	1	05-1472	LCD-Display FL9083PA1 - 0- 83,5x31,0x29,7mm THT	Adkom (F)# FT1612009P00 Rev 0 Yeebo (F)# FL9083PA1
B700	1	11-7114-1	Hall-Sensor AH180-WG-7 SOT23 SMT -40/+85°C	DIODES (F)# AH180-WG-7
C100, C1004, C101, C104, C105, C106, C109, C110, C1100, C1101, C1102, C111, C113, C114, C115, C116, C117, C203, C204, C205, C206, C208, C213, C304, C307, C308, C309, C402, C402_1, C408, C408_1, C409, C409_1, C500, C502, C506, C507, C510, C511, C518, C523, C601, C602, C604, C605, C606, C607, C700, C702, C704, C707, C708,C901, C910	54	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Murata (F)# GRM155R71H104KE14D
C1000, C1003, C1200, C1200_1, C1200_2, C1200_3, C1202, C1202_1, C1202_2, C1202_3, C217, C218, C221, C222, C225, C226, C305, C306, C400, C400_1, C401, C401_1, C403, C403_1, C504, C900, C902, C903, C904, C905, C906, C907, C908, C909	34	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101
C102, C103	2	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JRNPO9BN100
C107, C1306, C1306_1, C1306_2, C1306_3, C1307, C1307_1, C1307_2, C1307_3, C200_3, C202_3, C300, C301, C302, C303, D1301, D1301_1, D1301_2, D1301_3, G500, R1018, R108, R109, R110, R111, R1301, R1301_1, R1301_2, R1301_3, R1302, R1302_1, R1302_2, R1302_3, R1304, R1304_1, R1304_2, R1304_3, R200_3, R201_3, R202_3, R204, R205_3, R206_3, R210, R211, R212, R213, R516, R601, R707, R801, TP1, TP100, TP101, TP102, TP103, TP104, TP1100, TP1101, TP1102, TP1200, TP1201, TP1202, TP1203, TP1204, TP1205, TP1206, TP1207, TP1208, TP1209, TP1210, TP1212, TP1213, TP2, TP200, TP201, TP202, TP203, TP204, TP205, TP206, TP207, TP208, TP400, TP401, TP402, TP501, TP502, TP503, TP504, TP505, TP506, TP507, TP508, TP509, TP510, TP511, TP512, TP700, TP701, TP702, TP703, TP704, TP705, TP900, TP901, TP902, V1007, V1318, V1318_1, V1318_2, V1318_3, V1319, V1319_1, V1319_2, V1319_3, V1320, V1320_1, V1320_2, V1320_3, V510, V515, X1100, X1102,	143	n.b.	nicht bestückt	
C108, C200, C200_1, C200_2, C202, C202_1, C202_2, C215, C215_1, C215_2, C216, C216_1, C216_2, C512, C600	15	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT	KEMET (F)# C0402C103K5RAC KEMET (F)# C0402C103K5RACTU YAGEO (V)# 2238 587 15636 YAGEO (F)# CC0402KRX7R9BB103

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
C112, C201, C212, C514, C515, C603	6	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT	Murata (F)# GRM21BR61E106KA73L YAGEO (F)# CC0805KKX5R8BB106 TDK (F)# C2012X5R1E106KT
C501, C508	2	32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm	NICHICON (F)# ULD1A221MED1CM NICHICON (F)# ULD1A221MED1TD
C503, C527	2	32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm	NIPPON CHEMI (F)# EKZE500EC3151MJC5S NIPPON CHEMI (F)# EKZE500ELL151MJC5S NIPPON CHEMI (F)# EKZE500ETD151MJC5S NIPPON CHEMI (F)# EKZM500EC3151MJC5S NIPPON CHEMI (F)# EKZM500ELL151MJC5S NIPPON CHEMI (F)# KZE-VB 150/50 Zeichnung (F)# 32-0441 - BT_Spec.doc
C505, C513, C516, C517	4	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT	Murata (F)# GRM31CR61H106KA12L
C509	1	02-2247	CAPE 220mF -20%/+80% 5,5V RM5 THT 1000h@70°C 10,5x5,0mm	PANASONIC (F)# EECS0HD224V
C519, C524, C525, C701, C703, C705, C706, C710	8	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT	Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102
C520	1	02-2870	CAPC 1nF 10% 500V X7R 1206 SMT	VISHAY (F)# VJ1206Y102KXEAC VISHAY (F)# VJ1206Y102KXEAT EPCOS (A)# B37872-K3102-K60 SYFER (F)# 1206J5000102KXT
C521, C522	2	32-1381	CAPC 4,7nF 20% 500V Y5U Z RM10 THT geschnitten + gesickt	VISHAY (T)# VY1472M63Y5UQ63V0 VISHAY (F)# VY1472M63Y5UQ6TV0
D100	1	????	Cypress S25FL132K	Cypress S25FL132K
D1000, D1003, D400, D400_1, D402, D402_1, D501, D900, D901, D903, D904	11	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT	SHARP (A)# PC123X1YUP0F SHARP (F)# PC123Y13FP9F SHARP (A)# PC123ZY1J00F
D1001	1	07-0970	IC TL431BIDBZ -40/+85°C SOT23-3 SMT Spannungsreferenz	TEXAS (F)# TL431BIDBZR TEXAS (F)# TL431BIDBZRG4 TEXAS (F)# TL431BIDBZT TEXAS (F)# TL431BIDBZTG4 TEXAS (F)# TL431BQDBZR
D101	1	07-1683	IC STM32F051R8T6 -40/+85°C LQFP64 SMT Mikrocontroller	ST (F)# STM32F051R8T6 ST (F)# STM32F051R8T6TR

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
D301	1	06-3409	IC PCF8545 -40/+85°C TSSOP56 SMT LCD Driver	NXP (F)# PCF8545ATT/AJ
D500	1	06-0016	IC SN74HC14 -40/+85°C Inverter SO14 SMT	TEXAS (F)# SN74HC14DR FAIRCHILD (F)# MM74HC14MX_NL Onsemi (F)# MC74HC14ADR2G NXP (F)# 74HC14D Nexperia (F)# 74HC14D,652
D600	1	07-3929	IC STM32F401CEU6 -40/+85°C UFQFPN48 SMT Mikrocontroller	ST (F)# STM32F401CEU6 ST (F)# STM32F401CEU6TR
D902	1	06-0351	IC SN75176BD 0/+70°C SO8 SMT Bustransceiver	TEXAS (F)# SN75176BDR TEXAS (F)# SN75176BDRG4
D905	1	07-3716	IC SL3S4011FHK -40/+85°C XQFN-8 SMT UCODE I²C	NXP (F)# SL3S4011FHK,125
E500	1	05-2441-1	Li-Batt. 3V 1g 235mAh -Wh 20x3,2mm THT Li-Met	RENATA (T)# CR2032 MFR RV RENATA (F)# CR2032 MFR RV-LF RENATA (F)# CR2032RV-LF
G100	1	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-F#20ppm,12,5pF
G200	1	09-2705	CRYS 16,384MHz 18pF 50ppm 11,7x4,8x4,0mm SMT 30ppm@25°C -40/+85°C	JAUCH (F)# Q 16,3840-SMU3-18-30/50-T1-LF
K1212, K1212_1	2	04-????	Relais NO 277V 10A 12V 20x15x10,2mm THT	Hongfa (T)# HFE7/12-1HST-L2
L500	1	04-1161	COIL 100µH 10% 510mR 570mA 5,8x5,8x4,5mm SMT	WÜRTH eisos (F)# 74477420
L501	1	04-0797	COIL 6,5mH 50% 420mR 600mA 9,2x6x5mm SMT	WÜRTH eisos (F)# 744229
N1000	1	11-2625-1	IC LM317MKTPR 0/+125°C DPAK3 SMT Spannungsregler	ST (F)# LM317MDT-TR TEXAS (A)# LM317MKTPRG3 FAIRCHILD (F)# LM317MDTX
N500	1	11-9931	IC MC34063ABD -40/+85°C SO8 SMT Schaltregler	ST (F)# MC34063ABD-TR
PCB	1	15-7378-1	PCB MET MCS301 chem.NiAu TG>= 130 rigid DK V1.1 1x panel sol637b 154,6x170x1,6mm UL	Würth-Rot (F)# Würth-Rot (F)# 451251 Würth-Rot (F)# 451505
R100, R1000, R1002, R101, R1014, R1016, R1017, R1101, R1102, R200, R200_1, R200_2, R200_4, R206, R206_1, R206_2, R206_4, R300, R301, R304, R400, R400_1, R415, R415_1, R511, R518, R701, R702, R705, R706, R708, R900	37	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
R1001, R105, R202, R202_1, R202_2, R207, R209, R514, R517, R805, R806	11	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL
R1003	1	01-3889	RES 270R 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402270RFK ED YAGEO (F)# RC0402FR-07270RL
R1004	1	01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402220RFKED YAGEO (F)# RC0402FR-07220RL
R1005, R1008, R112, R208, R903, R905	6	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040210R0FKED KOA (F)# RK73H1ETTP10R0F YAGEO (F)# RC0402FR-0710RL
R1006, R1009, R1019, R1020, R1021, R509	6	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-0733KL
R1007	1	01-3455	RES 22K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040222K0FKED KOA (F)# RK73H1ETTP2202F YAGEO (F)# RC0402FR-0722K YAGEO (F)# RC0402FR-0722KL
R1010, R1011	2	01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-0727KL
R1012, R103, R1100, R203, R502, R512, R906, R908, R914, R915	10	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL YAGEO (F)# RC0402FR-1310KL
R1015	1	01-0607	RES 4,7K 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-07 4K7L YAGEO (F)# RC0603FR-074K7L YAGEO (F)# RC0603FR-10 4K7L YAGEO (F)# RC0603FR-13 4K7L
R102, R104, R901, R909, R911	5	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-07220RL
R1022	1	01-1418	RES 240R 1% 0,1W 100ppm 0603 SMT	VISHAY (F)# CRCW0603240RFKEA KOA (F)# RK73H1JTTD2400F ASJ (F)# CR16-240R-FL YAGEO (F)# RC0603FR-07240RL
R107, R504, R505, R515, R600, R513	6	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL
R1103, R222, R222_1, R222_2, R411, R411_1, R412, R412_1, R413, R413_1, R414, R414_1, R913	13	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM02040C1003FB000 VISHAY (F)# SMM02040C1003FB300
R1200, R1200_1, R1200_2, R1200_3, R1202, R1202_1, R1202_2, R1202_3	8	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-07180RL
R1203, R1203_1, R1203_2, R1203_3	4	01-0160	RES 0R -% 0,25W xppm 1206 SMT	YAGEO (F)# RC1206JR-070RL

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
R1204, R1204_1, R1204_2, R1204_3, R1212, R1212_1, R1214, R1214_1, R403, R403_1, R503, R506, R916, R919	14	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML
R201, R201_1, R201_2, R205, R205_1, R205_2	6	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 15R 1% B3 e3 VISHAY (F)# SMM02040C1509FB300
R224, R224_1, R224_2, R225, R225_1, R225_2	6	01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM02040C2200FB000 VISHAY (F)# SMM02040C2200FB300
R302, R507	2	01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-1003-FL ASJ (F)# CR16-1003-FY YAGEO (F)# RC0603FR-07100KL YAGEO (F)# RC0603FR-10100KL
R305, R307, R308	3	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-22R0-FL YAGEO (F)# RC0603FR-0722RL YAGEO (F)# RC0603FR-1322RL
R306	1	01-0898	RES 1M 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-1004-FK ASJ (F)# CR16-1004-FL YAGEO (F)# RC0603FR-071ML
R401, R401_1	2	01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT	ASJ (F)# CR32-1000-FL YAGEO (F)# RC1206FR-07100RL
R402, R402_1, R408, R408_1, R409, R409_1, R410, R410_1	8	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL
R500	1	01-6750	RES 240mR 1% 0,5W 100ppm 1206 SMT	YAGEO (F)# RL1206FR-7W0R24L Welwyn (F)# LR1206-R24FI
R501, R508	2	01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-2202-FL YAGEO (F)# RC0603FR-0722KL
R510	1	xx-xxxx	RES 11K 1% 0,1W 100ppm 0603 SMT	???
R507	0	01-1140	RES 82K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-8202-FL
R508	0	01-1235	RES 27K 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-0727KL
R700, R703, R704, R710	4	01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT	ASJ (F)# CR16-4704FL YAGEO (F)# RC0603FR-074M7L
R912	1	01-3517-1	RES 1,8K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071K8L
R917, R918	2	01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-5600 -FK ASJ (F)# CR16-5600 -FL YAGEO (F)# RC0603FR-07560RL YAGEO (F)# RC0603FR-10560RL

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
RHB0	1	80-4000	Hilfstoffe SMT Für Kalkulation	
RHB1	1	80-4001	Hilfstoffe THT Für Kalkulation	
RHB2	1	80-4002	Hilfstoffe THT Für Kalkulation	
S100, S101, S102	3	05-3455	Taster 1-fach 180° 2,54mm pitch SMT	ITT (V)# KSC401G 50SH LFS C&K (F)# KSC401G50SH LFS
S700, S701	2	05-8332	Taster 1-fach 180° RM5,08 THT	MULTICOMP (F)# DM1-01P-30-3 Canal Compon (F)# DM1-01P-30-3
T500	1	04-6570	TRAN 26,5x15,8x13,5mm SMT	Würth Midcom (F)# 750316702 Würth Midcom (F)# 750316702r01
T900	1	08-8742	Fototransistor AA3528P3S 400µA PLCC2 SMT	Kingbright (F)# AA3528P3S
U1200, U1200_1, U1200_2, U1200_3	4	04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT	VISHAY (F)# VOR1142B6 VISHAY (F)# VOR1142B6T
V100, V103	2	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm	Kingbright (F)# KPTL-3216SURCK APEX (F)# RY-SP350UHR24
V1000, V1006, V900, V906	4	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT	INFINEON (F)# BCX71HE6327 NXP (F)# BCX71H Nexperia (F)# BCX71H,215
V1001, V1005, V1102, V703, V707, V901, V905, V907, V908, V910, V914	11	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215 Nexperia (F)# BSS123,215
V1002, V101, V102, V505, V506, V507, V509, V700, V702, V704, V706, V714	12	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT	PHILIPS (V)# BAV199 NXP (F)# 934032640215 NXP (F)# BAV199 NXP (F)# BAV199,215 Nexperia (F)# BAV199,215 Nexperia (F)# BAV199,235
V1003	1	08-0844	DIO P6SMBJ40CA 40V 9,3A bi SMB SMT	VISHAY (F)# SMBJ40 CA SEMIKRON (F)# P6SMBJ40 CA PANJIT (F)# P6SMBJ40CA PANJIT (F)# P6SMBJ40CA_R2_00001 PANJIT (F)# P6SMBJ40CA_R2_10001

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
V1004, V1101, V300, V401, V401_1	5	08-0180	T BC817-40 NPN 45V 1,5A SOT23 SMT	Onsemi (F)# BC817-40LT1G NXP (F)# BC817-40 NXP (F)# BC817-40,215 Nexperia (F)# BC817-40,215 Nexperia (F)# BC817-40,235
V1100	1	08-0593	T BC807-40 PNP 45V 500mA SOT23 SMT	Onsemi (F)# BC807-40LT1G NXP (F)# BC807-40 NXP (F)# BC807-40,215 Nexperia (F)# BC807-40,215 Nexperia (F)# BC807-40,235
V1200, V1200_1, V1200_2, V1200_3	4	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT	LITTELFUSE (F)# SMCJ300CA
V1202, V1202_1, V1202_2, V1202_3	4	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT Kathodenmarkierung	VISHAY (F)# SMAJ33A-E3/61 VISHAY (F)# SMAJ33A/11
V1204, V1204_1, V1204_2, V1204_3, V1214, V1214_1, V1216, V1216_1, V304, V403, V403_1	11	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT	VISHAY (A)# 2N7002-T1-E3 Onsemi (F)# 2N7002LT1G NXP (G)# 2N7002 Nexperia (F)# 2N7002,215
V1212, V1212_1	2	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT	NXP (F)# BAS40-05 NXP (F)# BAS40-05,215 Nexperia (F)# BAS40-05,215 Nexperia (F)# BAS40-05,235
V200	1	07-3930	IC ATM90E36A-AU -40/+85°C TQFP48 SMT Energy Metering	Atmel (F)# ATM90E36A-AU-R Atmel (F)# ATM90E36A-AU-Y
V301, V302, V303	3	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm	OSRAM (F)# LWQ38E-Q100-3K6L-1 OSRAM (F)# LWQ38E-Q1S2-3K6L-1 OSRAM (F)# Q65110A7210
V400, V400_1	2	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	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 PANJIT (F)# B6S T/R
V402, V402_1	2	08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT	ST (F)# SMAJ30A-TR
V408, V408_1, V708, V709	4	08-2189	DIO S1M 1kV 1A uni DO214AC SMT	VISHAY (F)# S1M-E3/5AT VISHAY (F)# S1M-E3/61T

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
V500, V503, V508, V512, V518, V911	6	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18
V501	1	08-0678-3	DIO BAV103 200V 500mA uni Minimelf SMT	VISHAY (F)# BAV103-GS08 NXP (F)# BAV103 Nexperia (F)# BAV103,115
V502	1	08-0842-1	DIO ES1D 200V 1A uni SMA SMT	FAIRCHILD (F)# ES1D VISHAY (F)# ES1D-E3/61T
V504, V701, V705, V912, V913	5	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT	INFINEON (A)# BSS84P-E6327 INFINEON (A)# BSS84P-L6327 INFINEON (F)# BSS84PH6327 INFINEON (F)# SP000929186
V511	1	08-1618	DIO MBRA340T3 40V 3A uni SMA SMT	VISHAY (F)# 15MQ040NTRPBF Onsemi (F)# MBRA340T3G IR (V)# 15MQ040NTRPBF
V513	1	08-1434	T BSP296 N-Kanal 100V 1A SOT223 SMT	INFINEON (F)# BSP296 INFINEON (A)# BSP296 L6327 INFINEON (F)# BSP296NH6327XTSA1
V514	1	08-4149	DIOZ TZMC39GS08 39V 2,5mA Minimelf SMT	VISHAY (F)# TZMC39-GS08 VISHAY (F)# TZMC39GS08 VISHAY (F)# ZMM39 Nexperia (F)# BZV55-C39,115
V600	1	08-0621-3	DIO BAV170 60V 125mA uni SOT23 SMT	DIODES (F)# BAV170-7-F NXP (F)# BAV170 NXP (F)# BAV170,215 Nexperia (F)# BAV170,215
V902, V904	2	08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT	VISHAY (F)# TZMC12-GS08
V903	1	08-4505	DIOZ BZV55C6V8 6,8V 250mA Minimelf SMT	NXP (F)# BZV55-C6V8,115 NXP (F)# BZV55C6V8 Nexperia (F)# BZV55-C6V8,115 Nexperia (F)# BZV55-C6V8,135
V909	1	08-8479	IRLED SFH 4059 1-fach 860nm 1,6x3,2x1,8mm SMT A	OSRAM (F)# SFH 4059
WIP	1	18-3442	BMK-Label 5x5mm Polyester weiß 2D-WIP-Label BMK-Standard RT:05-8219	Brady (F)# THT-B727-5X5-LINER Brady (G)# THT-B727-7X7
WZ_01	1	61-5109-1	SMT-Schablone MetCom Systems sol637b	

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
WZ_02	1	61-5285	FKT-Testadapter MetCom Systems sol637b	
X100	1	03-0084	SL 3p 180° RM2,54 THT	TOP (F)# SL 1x3p RM2.54
X101	1	03-0088-9	SL 2p 180° RM2,54 THT	WÜRTH eisos (F)# 613 002 111 21
X102, X600	2	03-0086	SL 2x4p 180° RM2,54 THT	NEXUS (F)# 1520S08B W+P (F)# 944-11.8-008-00/C 3.3 W+P (F)# 944-11.8-008-00/C=3.3 (A/B/C=11.8/6.0/3.3) TOP (F)# P3-01 I 204 116 S1 B G
X1101	1	03-2680	SL 6p 180° RM2,54 THT	ETEC (F)# SL1-006-S105/05-11 ETEC (F)# SL1-006-S105/05-55
X1103	1	03-0451-2	SL 8p 180° RM2,54 THT	RATIOPLAST (F)# 0100225112008
X1200, X400, X900	3	24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT	Conectronics (F)# N508263-0620A
X201, X202	2	n.b.	FFC 9p 180° RM2,54 THT	Conectronics (F)# FPC254901-09100C-A
X401	1	24-1999	KL 3p 90° Schraubklemme Blau RM5,08 THT	Conectronics (F)# N508257-0320A
X500, X501, X502	3	05-4686	Befestigungselement Feder 5x3x4mm SMT	KITAGAWA (F)# OG-503040
X200	1	03-2780	BL 2x9p 180° Buchsenleiste 2,54mm pitch SMT	Conectronics (F)# B254150-180102F-6.60

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
R401, R401_1, C520	3	01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT	ASJ (F)# CR32-1000-FL YAGEO (F)# RC1206FR-07100RL
R1103, R222, R222_1, R222_2, R913	5	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM02040C1003FB000 VISHAY (F)# SMM02040C1003FB300
R224, R224_1, R224_2, R225, R225_1, R225_2	6	01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 220R 1% VISHAY (F)# MMA02040C2200FB300 VISHAY (F)# SMM 0204 50 220R 1%
R102, R104, R901, R909, R911	5	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-07220RL
R917, R918	2	01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-5600 -FK ASJ (F)# CR16-5600 -FL YAGEO (F)# RC0603FR-07560RL YAGEO (F)# RC0603FR-10560RL
R501, R508	2	01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-2202-FL YAGEO (F)# RC0603FR-0722KL
R510	1	xx-xxxx	RES 11K 1% 0,1W 100ppm 0603 SMT	???
R306	1	01-0898	RES 1M 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-1004-FK ASJ (F)# CR16-1004-FL YAGEO (F)# RC0603FR-071ML
R305, R307, R308	3	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-22R0-FL YAGEO (F)# RC0603FR-0722RL YAGEO (F)# RC0603FR-1322RL
R302, R507	2	01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-1003-FL ASJ (F)# CR16-1003-FY YAGEO (F)# RC0603FR-07100KL YAGEO (F)# RC0603FR-10100KL
R509	1	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-0733KL
R507	0	01-1140	RES 82K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-8202-FL
R201, R201_1, R201_2, R205, R205_1, R205_2	6	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 15R 1% B3 e3 VISHAY (F)# SMM02040C1509FB300
R508	0	01-1235	RES 27K 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-0727KL
R105, R202, R202_1, R202_2, R207, R209, R514, R517, R805, R806	10	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
R402, R402_1, R408, R408_1	4	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL
R107, R504, R505, R515, R600, R513	6	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL
R1100, R203, R502, R512, R906, R908, R914, R915	8	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL YAGEO (F)# RC0402FR-1310KL
R112, R208, R903, R905	4	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040210R0FKED KOA (F)# RK73H1ETTP10R0F YAGEO (F)# RC0402FR-0710RL
R1101, R200, R200_1, R200_2, R200_4, R206, R206_1, R206_2, R206_4, R300, R301, R303, R400, R400_1, R511, R701, R702, R705, R708, R900, R902, R904, R907, R910, R920, R518	26	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL
R1102, R403, R403_1, R503, R506, R916, R919	7	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML
R912	1	01-3517-1	RES 1,8K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071K8L
R700, R703, R704, R710	4	01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT	ASJ (F)# CR16-4704FL YAGEO (F)# RC0603FR-074M7L
R500	1	01-6750	RES 240mR 1% 0,5W 100ppm 1206 SMT	YAGEO (F)# RL1206FR-7W0R24L Welwyn (F)# LR1206-R24FI
C519, C524, C525, C701, C703, C705, C710	7	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT	Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102
C217, C218, C221, C222, C225, C226, C305, C306, C400, C400_1, C401, C401_1, C403, C403_1, C504, C900, C902, C903, C904, C905, C908, C909	22	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101
C102, C103	2	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JRNPO9BN100

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
C108, C200, C200_1, C200_2, C202, C202_1, C202_2, C215, C215_1, C215_2, C216, C216_1, C216_2, C512, C600	15	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT	KEMET (F)# C0402C103K5RAC KEMET (F)# C0402C103K5RACTU YAGEO (V)# 2238 587 15636 YAGEO (F)# CC0402KRX7R9BB103
C509	1	02-2247	CAPE 220mF -20%/+80% 5,5V RM5 THT 1000h@70°C 10,5x5,0mm	PANASONIC (F)# EECS0HD224V
C520	0	02-2870	CAPC 1nF 10% 500V X7R 1206 SMT	VISHAY (F)# VJ1206Y102KXEAC VISHAY (F)# VJ1206Y102KXEAT EPCOS (A)# B37872-K3102-K60 SYFER (F)# 1206J5000102KXT
C100, C101, C104, C105, C106, C109, C110, C1100, C1101, C1102, C111, C113, C114, C115, C116, C117, C203, C204, C205, C206, C208, C213, C304, C307, C308, C309, C402, C402_1, C500, C506, C507, C510, C511, C518, C523, C601, C602, C604, C605, C606, C607, C700, C702, C704, C707, C708, C901, C910	48	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Murata (F)# GRM155R71H104KE14D
C112, C201, C212, C514, C603	5	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT	Murata (F)# GRM21BR61E106KA73L YAGEO (F)# CC0805KKX5R8BB106 TDK (F)# C2012X5R1E106KT
C505, C513, C516, C517	4	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT	Murata (F)# GRM31CR61H106KA12L
X201, X202	2	n.b.	FFC 9p 180° RM2,54 THT	Conectronics (F)# FPC254901-09100C-A
L501	1	04-0797	COIL 6,5mH 50% 420mR 600mA 9,2x6x5mm SMT	WÜRTH eisos (F)# 744229
L500	1	04-1161	COIL 100µH 10% 510mR 570mA 5,8x5,8x4,5mm SMT	WÜRTH eisos (F)# 74477420
T500	1	04-6570	TRAN 26,5x15,8x13,5mm SMT	Würth Midcom (F)# 750316702 Würth Midcom (F)# 750316702r01
A300	1	05-1472	LCD-Display FL9083PA1 - 0-83,5x31,0x29,7mm THT	Adkom (F)# FT1612009P00 Rev 0 Yeebo (F)# FL9083PA1

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
E500	1	05-2441-1	Li-Batt. 3V 1g 235mAh -Wh 20x3,2mm THT Li-Met	RENATA (T)# CR2032 MFR RV RENATA (F)# CR2032 MFR RV-LF RENATA (F)# CR2032RV-LF
S100, S101, S102	3	05-3455	Taster 1-fach 180° 2,54mm pitch SMT	ITT (V)# KSC401G 50SH LFS C&K (F)# KSC401G50SH LFS
X500, X501, X502	3	05-4686	Befestigungselement Feder 5x3x4mm SMT	KITAGAWA (F)# OG-503040
S700, S701	2	05-8332	Taster 1-fach 180° RM5,08 THT	MULTICOMP (F)# DM1-01P-30-3 Canal Compon (F)# DM1-01P-30-3
D500	1	06-0016	IC SN74HC14 -40/+85°C Inverter SO14 SMT	TEXAS (F)# SN74HC14DR FAIRCHILD (F)# MM74HC14MX_NL Onsemi (F)# MC74HC14ADR2G NXP (F)# 74HC14D Nexperia (F)# 74HC14D,652
D902	1	06-0351	IC SN75176BD 0/+70°C SO8 SMT Bustransceiver	TEXAS (F)# SN75176BDR TEXAS (F)# SN75176BDRG4
D301	1	06-3409	IC PCF8545 -40/+85°C TSSOP56 SMT LCD Driver	NXP (F)# PCF8545ATT/AJ
D101	1	07-1683	IC STM32F051R8T6 -40/+85°C LQFP64 SMT Mikrocontroller	ST (F)# STM32F051R8T6 ST (F)# STM32F051R8T6TR
D905	1	07-3716	IC SL3S4011FHK -40/+85°C XQFN-8 SMT UCODE I²C	NXP (F)# SL3S4011FHK,125
D600	1	07-3929	IC STM32F401CEU6 -40/+85°C UFQFPN48 SMT Mikrocontroller	ST (F)# STM32F401CEU6 ST (F)# STM32F401CEU6TR
V200	1	07-3930	IC ATM90E36A-AU -40/+85°C TQFP48 SMT Energy Metering	Atmel (F)# ATM90E36A-AU-R Atmel (F)# ATM90E36A-AU-Y
V1101, V300, V401, V401_1	4	08-0180	T BC817-40 NPN 45V 1,5A SOT23 SMT	PHILIPS (V)# BC817-40 Onsemi (F)# BC817-40LT1G NXP (F)# BC817-40 NXP (F)# BC817-40,215 Nexperia (F)# BC817-40,215 Nexperia (F)# BC817-40,235
V504, V701, V705, V912, V913	5	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT	INFINEON (A)# BSS84P-E6327 INFINEON (A)# BSS84P-L6327 INFINEON (F)# BSS84PH6327 INFINEON (F)# SP000929186

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
V1102, V703, V707, V901, V905, V907, V908, V910, V914	9	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215 Nexperia (F)# BSS123,215
V1100	1	08-0593	T BC807-40 PNP 45V 500mA SOT23 SMT	Onsemi (F)# BC807-40LT1G NXP (F)# BC807-40 NXP (F)# BC807-40,215 Nexperia (F)# BC807-40,215 Nexperia (F)# BC807-40,235
V600	1	08-0621-3	DIO BAV170 60V 125mA uni SOT23 SMT	DIODES (F)# BAV170-7-F NXP (F)# BAV170 NXP (F)# BAV170,215 Nexperia (F)# BAV170,215
V304, V403, V403_1	3	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT	VISHAY (A)# 2N7002-T1-E3 Onsemi (F)# 2N7002LT1G NXP (G)# 2N7002 Nexperia (F)# 2N7002,215
V902, V904	2	08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT	VISHAY (F)# TZMC12-GS08
V502	1	08-0842-1	DIO ES1D 200V 1A uni SMA SMT	FAIRCHILD (F)# ES1D VISHAY (F)# ES1D-E3/61T
V500, V503, V508, V512, V518, V911	6	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18
V400, V400_1	2	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	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 PANJIT (F)# B6S T/R
V900, V906	2	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT	INFINEON (F)# BCX71HE6327 NXP (F)# BCX71H Nexperia (F)# BCX71H,215

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
V513	1	08-1434	T BSP296 N-Kanal 100V 1A SOT223 SMT	INFINEON (F)# BSP296 INFINEON (A)# BSP296 L6327 INFINEON (F)# BSP296NH6327XTSA1
V100, V103	2	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm	Kingbright (F)# KPTL-3216SURCK APEX (F)# RY-SP350UHR24
V505, V506, V507, V509, V700, V702, V704, V706	8	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT	PHILIPS (V)# BAV199 NXP (F)# 934032640215 NXP (F)# BAV199 NXP (F)# BAV199,215 Nexperia (F)# BAV199,215 Nexperia (F)# BAV199,235
V511	1	08-1618	DIO MBRA340T3 40V 3A uni SMA SMT	VISHAY (F)# 15MQ040NTRPBF Onsemi (F)# MBRA340T3G IR (V)# 15MQ040NTRPBF
V402, V402_1	2	08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT	ST (F)# SMAJ30A-TR
V903	1	08-4505	DIOZ BZV55C6V8 6,8V 250mA Minimelf SMT	NXP (F)# BZV55-C6V8,115 NXP (F)# BZV55C6V8 Nexperia (F)# BZV55-C6V8,115 Nexperia (F)# BZV55-C6V8,135
V301, V302, V303	3	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm	OSRAM (F)# LWQ38E-Q100-3K6L-1 OSRAM (F)# LWQ38E-Q1S2-3K6L-1 OSRAM (F)# Q65110A7210
V515	1	08-7845	DIOZ BZV55-C3V9,115 3,9V 3µA SOD80 SMT	NXP (F)# BZV55-C3V9,115 Nexperia (F)# BZV55-C3V9,115
V909	1	08-8479	IRLED SFH 4059 1-fach 860nm 1,6x3,2x1,8mm SMT A	OSRAM (F)# SFH 4059
T900	1	08-8742	Fototransistor AA3528P3S 400µA PLCC2 SMT	Kingbright (F)# AA3528P3S
G100	1	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-F#20ppm,12,5pF

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
G200	1	09-2705	CRYS 16,384MHz 18pF 50ppm 11,7x4,8x4,0mm SMT 30ppm@25°C -40/+85°C	JAUCH (F)# Q 16,3840-SMU3-18-30/50-T1-LF
D100	1	????	Cypress S25FL132K	Cypress S25FL132K
B700	1	11-7114-1	Hall-Sensor AH180-WG-7 SOT23 SMT -40/+85°C	DIODES (F)# AH180-WG-7
D400, D400_1, D501, D900, D901, D903, D904	7	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT	SHARP (A)# PC123X1YUP0F SHARP (F)# PC123Y13FP9F SHARP (A)# PC123ZY1J00F
N500	1	11-9931	IC MC34063ABD -40/+85°C SO8 SMT Schaltregler	ST (F)# MC34063ABD-TR
PCB	1	15-7378-1	PCB MET MCS301 chem.NiAu TG>= 130 rigid DK V1.1 1x panel sol637b 154,6x170x1,6mm UL	Würth-Rot (F)# Würth-Rot (F)# 451251 Würth-Rot (F)# 451505
WIP	1	18-3442	BMK-Label 7x7mm Polyester weiß 2D-WIP-Label BMK-Standard RT:05-7263 mit Klartext siehe Text/Bild	Brady (F)# THT-B727-7X7
X402, X901	2	24-1999	KL 3p 90° Schraubklemme Blau RM5,08 THT	Conectronics (F)# N508257-0320A
C527	1	32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm	NIPPON CHEMI (F)# EKZE500EC3151MJC5S NIPPON CHEMI (F)# EKZE500ELL151MJC5S NIPPON CHEMI (F)# EKZE500ETD151MJC5S NIPPON CHEMI (F)# EKZM500EC3151MJC5S NIPPON CHEMI (F)# EKZM500ELL151MJC5S NIPPON CHEMI (F)# KZE-VB 150/50 Zeichnung (F)# 32-0441 - BT_Spec.doc
C521, C522	2	32-1381	CAPC 4,7nF 20% 500V Y5U Z RM10 THT geschnitten + gesickt	VISHAY (T)# VY1472M63Y5UQ63V0 VISHAY (F)# VY1472M63Y5UQ6TV0
C501, C508	2	32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm	NICHICON (F)# ULD1A221MED1CM NICHICON (F)# ULD1A221MED1TD

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
WZ_01	1	61-5109-1	SMT-Schablone MetCom Systems sol637b	
RHB0	1	80-4000	Hilfstoffe SMT Für Kalkulation	
RHB1	1	80-4001	Hilfstoffe THT Für Kalkulation	
RHB2	1	80-4002	Hilfstoffe THT Für Kalkulation	
X200	1	03-2780	BL 2x9p 180° Buchsenleiste □ 2,54mm pitch SMT	Conectronics (F)# B254150-180102F-6.60

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
C1000, C1003, C1004, C107, C1200, C1200_1, C1200_2, C1200_3, C1202, C1202_1, C1202_2, C1202_3, C1306, C1306_1, C1306_2, C1306_3, C1307, C1307_1, C1307_2, C1307_3, C200_3, C202_3, C300, C301, C302, C303, C408, C408_1, C409, C409_1, C502, C503, C515, C706, C800, C801, C802, C906, C907, D1000, D1001, D1003, D1301, D1301_1, D1301_2, D1301_3, D402, D402_1, D800, G500, K1212, K1212_1, N1000, R100, R1000, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R101, R1010, R1011, R1012, R1014, R1015, R1016, R1017, R1018, R1019, R1020, R1021, R1022, R103, R108, R109, R110, R111, R113, R1200, R1200_1, R1200_2, R1200_3, R1202, R1202_1, R1202_2, R1202_3, R1203, R1203_1, R1203_2, R1203_3, R1204, R1204_1, R1204_2, R1204_3, R1212, R1212_1, R1214, R1214_1, R1301, R1301_1, R1301_2, R1301_3, R1302, R1302_1, R1302_2, R1302_3, R1304, R1304_1, R1304_2, R1304_3, R200_3, R201_3, R202_3, R204, R205_3, R206_3, R210, R211, R212, R213, R304, R409, R409_1, R410, R410_1, R411, R411_1, R412, R412_1, R413, R413_1, R414, R414_1, R415,	274	n.b.	nicht bestückt	

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
R401	1	01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT	ASJ (F)# CR32-1000-FL YAGEO (F)# RC1206FR-07100RL
R1006, R1009, R1019, R1020, R1021, R509	6	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-0733KL
R1015	1	01-0607	RES 4,7K 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-07 4K7L YAGEO (F)# RC0603FR-074K7L YAGEO (F)# RC0603FR-10 4K7L YAGEO (F)# RC0603FR-13 4K7L
R1103, R222, R222_1, R222_2, R913	5	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM02040C1003FB000 VISHAY (F)# SMM02040C1003FB300
R224, R224_1, R224_2, R225, R225_1, R225_2	6	01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# MMA 0204 50 220R 1% VISHAY (F)# MMA02040C2200FB300 VISHAY (F)# SMM 0204 50 220R 1%
R102, R104, R901, R909, R911	5	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-07220RL
R917, R918	2	01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-5600 -FK ASJ (F)# CR16-5600 -FL YAGEO (F)# RC0603FR-07560RL YAGEO (F)# RC0603FR-10560RL
R501, R508	2	01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-2202-FL YAGEO (F)# RC0603FR-0722KL
R510	1	xx-xxxx	RES 11K 1% 0,1W 100ppm 0603 SMT	???
R306	1	01-0898	RES 1M 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-1004-FK ASJ (F)# CR16-1004-FL YAGEO (F)# RC0603FR-071ML
R305, R307, R308	3	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-22R0-FL YAGEO (F)# RC0603FR-0722RL YAGEO (F)# RC0603FR-1322RL
R302, R507	2	01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-1003-FL ASJ (F)# CR16-1003-FY YAGEO (F)# RC0603FR-07100KL YAGEO (F)# RC0603FR-10100KL
R507	0	01-1140	RES 82K 1% 0,1W 100ppm 0603 SMT	ASJ (F)# CR16-8202-FL
R201, R201_1, R201_2, R205, R205_1, R205_2	6	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM0204 50 15R 1% B3 e3 VISHAY (F)# SMM02040C1509FB300
R508	0	01-1235	RES 27K 1% 0,1W 100ppm 0603 SMT	YAGEO (F)# RC0603FR-0727KL

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
R1022	1	01-1418	RES 240R 1% 0,1W 100ppm 0603 SMT	VISHAY (F)# CRCW0603240RFKEA KOA (F)# RK73H1JTTD2400F ASJ (F)# CR16-240R-FL YAGEO (F)# RC0603FR-07240RL
R1001, R105, R202, R202_1, R202_2, R207, R209, R514, R517, R805, R806	11	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW04020000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL
R402, R408, R408_1	3	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL
R107, R504, R505, R515, R600, R513	6	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT	VISHAY (T)# CRCW0402100RFKED YAGEO (F)# RC0402FR-07100RL YAGEO (F)# RC0402FR-13100RL
R1012, R1100, R203, R502, R512, R906, R908, R914, R915	9	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL YAGEO (F)# RC0402FR-1310KL
R1005, R1008, R112, R208, R903, R905	6	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040210R0FKED KOA (F)# RK73H1ETTP10R0F YAGEO (F)# RC0402FR-0710RL
R1000, R1002, R1014, R1016, R1017, R1101, R200, R200_1, R200_2, R200_4, R206, R206_1, R206_2, R206_4, R300, R301, R303, R400, R511, R518, R701, R702, R705, R708, R900, R902, R904, R907, R910, R920	30	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW04021K00FKED YAGEO (F)# RC0402FR-071KL YAGEO (F)# RC0402FR-131KL
R1102, R1212, R1214, R403, R503, R506, R916, R919	8	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071ML
R1010, R1011	2	01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-0727KL
R1007	1	01-3455	RES 22K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040222K0FKED KOA (F)# RK73H1ETTP2202F YAGEO (F)# RC0402FR-0722K YAGEO (F)# RC0402FR-0722KL
R1004	1	01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402220RFKED YAGEO (F)# RC0402FR-07220RL
R912	1	01-3517-1	RES 1,8K 1% 0,063W 100ppm 0402 SMT	YAGEO (F)# RC0402FR-071K8L
R700, R703, R704, R710	4	01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT	ASJ (F)# CR16-4704FL YAGEO (F)# RC0603FR-074M7L
R1003	1	01-3889	RES 270R 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW0402270RFK ED YAGEO (F)# RC0402FR-07270RL

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
R500	1	01-6750	RES 240mR 1% 0,5W 100ppm 1206 SMT	YAGEO (F)# RL1206FR-7W0R24L Welwyn (F)# LR1206-R24FI
C519, C524, C525, C701, C703, C705, C710	7	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT	Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102
C1000, C1003, C217, C218, C221, C222, C225, C226, C305, C306, C400, C401, C403, C504, C900, C902, C903, C904, C905, C906, C907, C908, C909	23	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101
C102, C103	2	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JRNPO9BN100
C108, C200, C200_1, C200_2, C202, C202_1, C202_2, C215, C215_1, C215_2, C216, C216_1, C216_2, C512, C600	15	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT	KEMET (F)# C0402C103K5RAC KEMET (F)# C0402C103K5RACTU YAGEO (V)# 2238 587 15636 YAGEO (F)# CC0402KRX7R9BB103
C509	1	02-2247	CAPE 220mF -20%/+80% 5,5V RM5 THT 1000h@70°C 10,5x5,0mm	PANASONIC (F)# EECS0HD224V
C520	1	02-2870	CAPC 1nF 10% 500V X7R 1206 SMT	VISHAY (F)# VJ1206Y102KXEAC VISHAY (F)# VJ1206Y102KXEAT EPCOS (A)# B37872-K3102-K60 SYFER (F)# 1206J5000102KXT
C100, C1004, C101, C104, C105, C106, C109, C110, C1100, C1101, C1102, C111, C113, C114, C115, C116, C117, C203, C204, C205, C206, C208, C213, C304, C307, C308, C309, C402, C500, C502, C506, C507, C510, C511, C518, C523, C601, C602, C604, C605, C606, C607, C700, C702, C704, C707, C708, C901, C910	49	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Murata (F)# GRM155R71H104KE14D
C112, C201, C212, C514, C603	5	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT	Murata (F)# GRM21BR61E106KA73L YAGEO (F)# CC0805KKX5R8BB106 TDK (F)# C2012X5R1E106KT
C505, C513, C516, C517	4	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT	Murata (F)# GRM31CR61H106KA12L
X201, X202	2	03-0833	FFC 9p 180° RM2,54 THT	Conectronics (F)# FPC254901-09100C-A
L501	1	04-0797	COIL 6,5mH 50% 420mR 600mA 9,2x6x5mm SMT	WÜRTH eisos (F)# 744229
L500	1	04-1161	COIL 100µH 10% 510mR 570mA 5,8x5,8x4,5mm SMT	WÜRTH eisos (F)# 74477420
K1212	1	04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT	Hongfa (F)# HFE7/12-1HST-L2

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
T500	1	04-6570	TRAN 26,5x15,8x13,5mm SMT	Würth Midcom (F)# 750316702 Würth Midcom (F)# 750316702r01
A300	1	05-1472	LCD-Display FL9083PA1 - 0- 83,5x31,0x29,7mm THT	Adkom (F)# FT1612009P00 Rev 0 Yeebo (F)# FL9083PA1
E500	1	05-2441-1	Li-Batt. 3V 1g 235mAh -Wh 20x3,2mm THT Li-Met	RENATA (T)# CR2032 MFR RV RENATA (F)# CR2032 MFR RV-LF RENATA (F)# CR2032RV-LF
S100, S101, S102	3	05-3455	Taster 1-fach 180° 2,54mm pitch SMT	ITT (V)# KSC401G 50SH LFS C&K (F)# KSC401G50SH LFS
X500, X501, X502	3	05-4686	Befestigungselement Feder 5x3x4mm SMT	KITAGAWA (F)# OG-503040
S700, S701	2	05-8332	Taster 1-fach 180° RM5,08 THT	MULTICOMP (F)# DM1-01P-30-3 Canal Compon (F)# DM1-01P-30-3
D500	1	06-0016	IC SN74HC14 -40/+85°C Inverter SO14 SMT	TEXAS (F)# SN74HC14DR FAIRCHILD (F)# MM74HC14MX_NL Onsemi (F)# MC74HC14ADR2G NXP (F)# 74HC14D Nexperia (F)# 74HC14D,652
D902	1	06-0351	IC SN75176BD 0/+70°C SO8 SMT Bustransceiver	TEXAS (F)# SN75176BDR TEXAS (F)# SN75176BDRG4
D301	1	06-3409	IC PCF8545 -40/+85°C TSSOP56 SMT LCD Driver	NXP (F)# PCF8545ATT/AJ
D1001	1	07-0970	IC TL431BIDBZ -40/+85°C SOT23-3 SMT Spannungsreferenz	TEXAS (F)# TL431BIDBZR TEXAS (F)# TL431BIDBZRG4 TEXAS (F)# TL431BIDBZT TEXAS (F)# TL431BIDBZTG4 TEXAS (F)# TL431BQDBZR
D101	1	07-1683	IC STM32F051R8T6 -40/+85°C LQFP64 SMT Mikrocontroller	ST (F)# STM32F051R8T6 ST (F)# STM32F051R8T6TR
D905	1	07-3716	IC SL3S4011FHK -40/+85°C XQFN-8 SMT UCODE I²C	NXP (F)# SL3S4011FHK,125
D600	1	07-3929	IC STM32F401CEU6 -40/+85°C UFQFPN48 SMT Mikrocontroller	ST (F)# STM32F401CEU6 ST (F)# STM32F401CEU6TR
V200	1	07-3930	IC ATM90E36A-AU -40/+85°C TQFP48 SMT Energy Metering	Atmel (F)# ATM90E36A-AU-R Atmel (F)# ATM90E36A-AU-Y

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
V1004, V1101, V300, V401	4	08-0180	T BC817-40 NPN 45V 1,5A SOT23 SMT	PHILIPS (V)# BC817-40 Onsemi (F)# BC817-40LT1G NXP (F)# BC817-40 NXP (F)# BC817-40,215 Nexperia (F)# BC817-40,215 Nexperia (F)# BC817-40,235
V504, V701, V705, V912, V913	5	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT	INFINEON (A)# BSS84P-E6327 INFINEON (A)# BSS84P-L6327 INFINEON (F)# BSS84PH6327 INFINEON (F)# SP000929186
V1001, V1005, V1102, V703, V707, V901, V905, V907, V908, V910, V914	11	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT	INFINEON (A)# BSS123 E(L)6327 NXP (F)# 933946340215 NXP (F)# BSS123 NXP (F)# BSS123 T/R NXP (F)# BSS123,215 Nexperia (F)# BSS123,215
V1100	1	08-0593	T BC807-40 PNP 45V 500mA SOT23 SMT	Onsemi (F)# BC807-40LT1G NXP (F)# BC807-40 NXP (F)# BC807-40,215 Nexperia (F)# BC807-40,215 Nexperia (F)# BC807-40,235
V600	1	08-0621-3	DIO BAV170 60V 125mA uni SOT23 SMT	DIODES (F)# BAV170-7-F NXP (F)# BAV170 NXP (F)# BAV170,215 Nexperia (F)# BAV170,215
V1214, V1216, V304, V403	4	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT	VISHAY (A)# 2N7002-T1-E3 Onsemi (F)# 2N7002LT1G NXP (G)# 2N7002 Nexperia (F)# 2N7002,215
V501	1	08-0678-3	DIO BAV103 200V 500mA uni Minimelf SMT	VISHAY (F)# BAV103-GS08 NXP (F)# BAV103 Nexperia (F)# BAV103,115
V502, V504	2	08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT	VISHAY (F)# TZMC12-GS08
V502	1	08-0842-1	DIO ES1D 200V 1A uni SMA SMT	FAIRCHILD (F)# ES1D VISHAY (F)# ES1D-E3/61T

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
V1003	1	08-0844	DIO P6SMBJ40CA 40V 9,3A bi SMB SMT	VISHAY (F)# SMBJ40 CA SEMIKRON (F)# P6SMBJ40 CA PANJIT (F)# P6SMBJ40CA PANJIT (F)# P6SMBJ40CA_R2_00001 PANJIT (F)# P6SMBJ40CA_R2_10001
V500, V503, V508, V512, V518, V911	6	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT	VISHAY (F)# LL4150-GS08 VISHAY (F)# LL4150-GS18 VISHAY (F)# LL4150GS08 VISHAY (F)# LL4150GS18
V400	1	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT	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 PANJIT (F)# B6S T/R
V1212	1	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT	NXP (F)# BAS40-05 NXP (F)# BAS40-05,215 Nexperia (F)# BAS40-05,215 Nexperia (F)# BAS40-05,235
V1000, V1006, V900, V906	4	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT	INFINEON (F)# BCX71HE6327 NXP (F)# BCX71H Nexperia (F)# BCX71H,215
V513	1	08-1434	T BSP296 N-Kanal 100V 1A SOT223 SMT	INFINEON (F)# BSP296 INFINEON (A)# BSP296 L6327 INFINEON (F)# BSP296NH6327XTSA1
V100, V103	2	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm	Kingbright (F)# KPTL-3216SURCK APEX (F)# RY-SP350UHR24
V1002, V505, V506, V507, V509, V700, V702, V704, V706	9	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT	PHILIPS (V)# BAV199 NXP (F)# 934032640215 NXP (F)# BAV199 NXP (F)# BAV199,215 Nexperia (F)# BAV199,215 Nexperia (F)# BAV199,235
V511	1	08-1618	DIO MBRA340T3 40V 3A uni SMA SMT	VISHAY (F)# 15MQ040NTRPBF Onsemi (F)# MBRA340T3G IR (V)# 15MQ040NTRPBF
V402	1	08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT	ST (F)# SMAJ30A-TR

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
V514	1	08-4149	DIOZ TZMC39GS08 39V 2,5mA Minimelf SMT	VISHAY (F)# TZMC39-GS08 VISHAY (F)# TZMC39GS08 VISHAY (F)# ZMM39 Nexperia (F)# BZV55-C39,115
V903	1	08-4505	DIOZ BZV55C6V8 6,8V 250mA Minimelf SMT	NXP (F)# BZV55-C6V8,115 NXP (F)# BZV55C6V8 Nexperia (F)# BZV55-C6V8,115 Nexperia (F)# BZV55-C6V8,135
V301, V302, V303	3	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm	OSRAM (F)# LWQ38E-Q100-3K6L-1 OSRAM (F)# LWQ38E-Q1S2-3K6L-1 OSRAM (F)# Q65110A7210
V909	1	08-8479	IRLED SFH 4059 1-fach 860nm 1,6x3,2x1,8mm SMT A	OSRAM (F)# SFH 4059
T900	1	08-8742	Fototransistor AA3528P3S 400µA PLCC2 SMT	Kingbright (F)# AA3528P3S
G100	1	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-F#20ppm,12,5pF
G200	1	09-2705	CRYS 16,384MHz 18pF 50ppm 11,7x4,8x4,0mm SMT 30ppm@25°C -40/+85°C	JAUCH (F)# Q 16,3840-SMU3-18-30/50-T1-LF
D100	1	????	Cypress S25FL132K	Cypress S25FL132K
N1000	1	11-2625-1	IC LM317MKTPR 0/+125°C DPAK3 SMT Spannungsregler	ST (F)# LM317MDT-TR TEXAS (A)# LM317MKTPRG3 FAIRCHILD (F)# LM317MDTX
B700	1	11-7114-1	Hall-Sensor AH180-WG-7 SOT23 SMT -40/+85°C	DIODES (F)# AH180-WG-7
D1000, D1003, D400, D501, D900, D901, D903, D904	8	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT	SHARP (A)# PC123X1YUP0F SHARP (F)# PC123Y13FP9F SHARP (A)# PC123ZY1J00F
U500	1	11-9931	IC MC34063ABD -40/+85°C SO8 SMT Schaltregler	ST (F)# MC34063ABD-TR
PCB	1	15-7378-1	PCB MET MCS301 chem.NiAu TG>= 130 rigid DK V1.1 1x panel sol637b 154,6x170x1,6mm UL	Würth-Rot (F)# Würth-Rot (F)# 451251 Würth-Rot (F)# 451505
WIP	1	18-3442	BMK-Label 7x7mm Polyester weiß 2D-WIP-Label BMK-Standard RT:05-7263 mit Klartext siehe Text/Bild	Brady (F)# THT-B727-7X7

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
X900	1	24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT	Conectronics (F)# N508263-0620A
X400	1	24-2253	KL 2x2p 90° Schraubklemme blau RM5,08 THT	Conectronics (F)# N508263-0420A
C503, C527	2	32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm	NIPPON CHEMI (F)# EKZE500EC3151MJC5S NIPPON CHEMI (F)# EKZE500ELL151MJC5S NIPPON CHEMI (F)# EKZE500ETD151MJC5S NIPPON CHEMI (F)# EKZM500EC3151MJC5S NIPPON CHEMI (F)# EKZM500ELL151MJC5S NIPPON CHEMI (F)# KZE-VB 150/50 Zeichnung (F)# 32-0441 - BT_Spec.doc
C521, C522	2	32-1381	CAPC 4,7nF 20% 500V Y5U Z RM10 THT geschnitten + gesickt	VISHAY (T)# VY1472M63Y5UQ63V0 VISHAY (F)# VY1472M63Y5UQ6TV0
C501, C508	2	32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm	NICHICON (F)# ULD1A221MED1CM NICHICON (F)# ULD1A221MED1TD
WZ_01	1	61-5109-1	SMT-Schablone MetCom Systems sol637b	
RHB0	1	80-4000	Hilfstoffe SMT Für Kalkulation	
RHB1	1	80-4001	Hilfstoffe THT Für Kalkulation	
RHB2	1	80-4002	Hilfstoffe THT Für Kalkulation	
X200	1	03-2780	BL 2x9p 180° Buchsenleiste 2,54mm pitch SMT	Conectronics (F)# B254150-180102F-6.60

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
C107, C1200, C1200_1, C1200_2, C1200_3, C1202, C1202_1, C1202_2, C1202_3, C1306, C1306_1, C1306_2, C1306_3, C1307, C1307_1, C1307_2, C1307_3, C200_3, C202_3, C300, C301, C302, C303, C400_1, C401_1, C402_1, C403_1, C408, C408_1, C409, C409_1, C515, C706, C800, C801, C802, D1301, D1301_1, D1301_2, D1301_3, D400_1, D402, D402_1, D800, G500, K1212_1, R100, R101, R1018, R103, R108, R109, R110, R111, R113, R1200, R1200_1, R1200_2, R1200_3, R1202, R1202_1, R1202_2, R1202_3, R1203, R1203_1, R1203_2, R1203_3, R1204, R1204_1, R1204_2, R1204_3, R1212_1, R1214_1, R1301, R1301_1, R1301_2, R1301_3, R1302, R1302_1, R1302_2, R1302_3, R1304, R1304_1, R1304_2, R1304_3, R200_3, R201_3, R202_3, R204, R205_3, R206_3, R210, R211, R212, R213, R304, R400_1, R401_1, R402_1, R403_1, R409, R409_1, R410, R410_1, R411, R411_1, R412, R412_1, R413, R413_1, R414, R414_1, R415, R415_1, R516, R601, R706, R707, R800, R801, R802, R803, R804, TP1, TP100, TP101, TP102, TP103, TP104, TP1100, TP1101, TP1102, TP1200, TP1201, TP1202, TP1203, TP1204, TP1205, TP1206, TP1207, TP1208, TP1209, TP1210, TP1212, TP1213, TP2, TP200, TP201, TP202, TP203, TP204, TP205, TP206, TP207, TP208, TP400, TP401, TP402, TP501, TP502, TP503, TP504, TP505, TP506, TP507, TP508, TP509, TP510, TP511, TP512, TP700, TP701, TP702, TP703, TP704, TP705, TP900, TP901, TP902, U1200, U1200_1, U1200_2, U1200_3, V1007, V101, V102, V1200, V1200_1, V1200_2, V1200_3, V1202, V1202_1, V1202_2, V1202_3, V1204, V1204_1, V1204_2, V1204_3, V1212_1, V1214_1, V1216_1, V1318, V1318_1, V1318_2, V1318_3, V1319, V1319_1, V1319_2, V1319_3, V1320, V1320_1, V1320_2, V1320_3, V400_1, V401_1, V402_1, V403_1, V408, V408_1, V510, V515, V708, V709, V714, X100, X101, X102, X1100, X1101, X1102, X1103, X1200, X401, X402, X600, X800, X801, X901, V516, V517, C526	241	n.b.	nicht bestückt	

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R1013	n.b.	nicht bestückt		offen		Nicht Best.	
C200_3	n.b.	nicht bestückt		neu		n.b.	nicht bestückt
C202_3	n.b.	nicht bestückt				n.b.	nicht bestückt
C521	32-1381	CAPC 2,2nF 20% 500V Y5U RM9,5 THT				32-1381	CAPC 4,7nF 20% 500V Y5U Z RM10 THT
C522	32-1381	CAPC 2,2nF 20% 500V Y5U RM9,5 THT				32-1381	CAPC 4,7nF 20% 500V Y5U Z RM10 THT
C526	n.b.	CAPC 1nF 10% 50V X7R 0402 SMT				n.b.	nicht bestückt
C706	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT				02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C800	n.b.	CAPC 100nF 10% 50V X7R 0402 SMT				n.b.	nicht bestückt
C801	n.b.	CAPC 100nF 10% 50V X7R 0402 SMT				n.b.	nicht bestückt
C802	n.b.	CAPC 100nF 10% 50V X7R 0402 SMT				n.b.	nicht bestückt
D100	10-3713	IC S25FL132K0XMFI013 -40/+85°C SO8-208-mil SMT SPI Flash				10-3713	IC S25FL132K0XMFI013 -40/+85°C SO8-208-mil SMT SPI Flash
D800	n.b.	IC STM32F030F4P6 -40/+85°C TSSOP20 SMT Microcontroller				n.b.	nicht bestückt
D905	n.b.	nicht bestückt				n.b.	nicht bestückt
G200	09-2705	CRYS 16,384MHz 18pF 50ppm 11,7x4,8x4,0mm SMT 30ppm@25°C -40/+85°C				09-2705	CRYS 16,384MHz 18pF 50ppm 11,7x4,8x4,0mm SMT 30ppm@25°C -40/+85°C
G500	n.b.	nicht bestückt				n.b.	nicht bestückt
K1212	04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT				04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT
K1212_1	04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT				04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT
L500	04-1793	744775215				04-1161	COIL 100µH 10% 510mR 570mA 5,8x5,8x4,5mm SMT
R1001	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R1003	01-3889	RES 270R 1% 0,063W 100ppm 0402 SMT				01-3889	RES 270R 1% 0,063W 100ppm 0402 SMT
R1004	01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT				01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R1007	01-3455	RES 22K 1% 0,063W 100ppm 0402 SMT				01-3455	RES 22K 1% 0,063W 100ppm 0402 SMT
R1010	01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT				01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT
R1011	01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT				01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT
R1018	n.b.	nicht bestückt				n.b.	nicht bestückt
R1022	01-1418	RES 240R 1% 0,1W 100ppm 0603 SMT				01-1418	RES 240R 1% 0,1W 100ppm 0603 SMT
R1102	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R113	n.b.	nicht bestückt				n.b.	nicht bestückt
R200_3	n.b.	nicht bestückt				n.b.	nicht bestückt
R201	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT				01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R201_1	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT				01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R201_2	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT				01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R201_3	n.b.	nicht bestückt				n.b.	nicht bestückt
R202_3	n.b.	nicht bestückt				n.b.	nicht bestückt
R205	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT				01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R205_1	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT				01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R205_2	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT				01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R205_3	n.b.	nicht bestückt				n.b.	nicht bestückt
R206_3	n.b.	nicht bestückt				n.b.	nicht bestückt
R224	01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT				01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT
R224_1	01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT				01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT
R224_2	01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT				01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT
R225	01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT				01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R225_1	01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT				01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT
R225_2	01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT				01-0675-3	RES 220R 1% 0,25W 50ppm Minimelf SMT
R303	n.b.	nicht bestückt				n.b.	nicht bestückt
R507	01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT				01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT
R508	01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT				01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT
R509	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT				01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R510	01-1309	RES 11K 1% 0,1W 100ppm 0603 SMT				01-1309	RES 11K 1% 0,1W 100ppm 0603 SMT
R513	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT				01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R516	n.b.	nicht bestückt				n.b.	nicht bestückt
R706	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R800	n.b.	RES 100K 1% 0,063W 100ppm 0402 SMT				n.b.	nicht bestückt
R801	n.b.	RES 100K 1% 0,063W 100ppm 0402 SMT				n.b.	nicht bestückt
R802	n.b.	RES 100K 1% 0,063W 100ppm 0402 SMT				n.b.	nicht bestückt
R803	n.b.	RES 0R x% 0,063W 200ppm 0402 SMT				n.b.	nicht bestückt
R804	n.b.	RES 0R x% 0,063W 200ppm 0402 SMT				n.b.	nicht bestückt
V1007	n.b.	nicht bestückt				n.b.	nicht bestückt
V1202	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT				08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT
V1202_1	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT				08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT
V1202_2	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT				08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT
V1202_3	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT				08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
V501	08-0678-3	DIO BAV103 200V 500mA uni Minimelf SMT				08-0678-3	DIO BAV103 200V 500mA uni Minimelf SMT
V502	08-0842-1	DIO ES1D 200V 1A uni SMA SMT				08-0842-1	DIO ES1D 200V 1A uni SMA SMT
V510	n.b.	nicht bestückt				n.b.	nicht bestückt
V513	08-1434	T BSP296 N-Kanal 100V 1A SOT223 SMT				08-1434	T BSP296 N-Kanal 100V 1A SOT223 SMT
V515	n.b.	nicht bestückt				n.b.	nicht bestückt
V516	n.b.	nicht bestückt				n.b.	nicht bestückt
V517	n.b.	nicht bestückt				n.b.	nicht bestückt
V708	08-2189	DIO S1M 1kV 1A uni DO214AC SMT				08-2189	DIO S1M 1kV 1A uni DO214AC SMT
V709	08-2189	DIO S1M 1kV 1A uni DO214AC SMT				08-2189	DIO S1M 1kV 1A uni DO214AC SMT
V714	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
X1100	n.b.	nicht bestückt				n.b.	nicht bestückt
X1102	n.b.	nicht bestückt				n.b.	nicht bestückt
X200	03-2780	BL 2x9p 180° Buchsenleiste 2,54mm pitch SMT				03-2780	BL 2x9p 180° Buchsenleiste 2,54mm pitch SMT
X201	n.b.	nicht bestückt				n.b.	nicht bestückt
X202	n.b.	nicht bestückt				n.b.	nicht bestückt
X402	n.b.	nicht bestückt				n.b.	nicht bestückt
X801	n.b.	nicht bestückt				n.b.	nicht bestückt
X901	n.b.	nicht bestückt				n.b.	nicht bestückt
A300	05-1472	LCD-Display FL9083PA1 - 0-83,5x31,0x29,7mm THT				05-1472	LCD-Display FL9083PA1 - 0-83,5x31,0x29,7mm THT
B700	11-7114-1	Hall-Sensor AH180-WG-7 SOT23 SMT -40/+85°C				11-7114-1	Hall-Sensor AH180-WG-7 SOT23 SMT -40/+85°C
C100	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1000	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1003	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1004	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
C101	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C102	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT				02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT
C103	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT				02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT
C104	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C105	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C106	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C107	n.b.	nicht bestückt				n.b.	nicht bestückt
C108	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C109	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C110	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1100	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1101	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1102	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C111	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C112	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT				02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C113	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C114	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C115	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C116	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
C117	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1200	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1200_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1200_2	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1200_3	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1202	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1202_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1202_2	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1202_3	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1306	n.b.	nicht bestückt				n.b.	nicht bestückt
C1306_1	n.b.	nicht bestückt				n.b.	nicht bestückt
C1306_2	n.b.	nicht bestückt				n.b.	nicht bestückt
C1306_3	n.b.	nicht bestückt				n.b.	nicht bestückt
C1307	n.b.	nicht bestückt				n.b.	nicht bestückt
C1307_1	n.b.	nicht bestückt				n.b.	nicht bestückt
C1307_2	n.b.	nicht bestückt				n.b.	nicht bestückt
C1307_3	n.b.	nicht bestückt				n.b.	nicht bestückt
C200	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C200_1	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C200_2	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C201	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT				02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C202	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C202_1	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
C202_2	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C203	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C204	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C205	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C206	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C208	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C212	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT				02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C213	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C215	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C215_1	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C215_2	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C216	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C216_1	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C216_2	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C217	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C218	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C221	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C222	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C225	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
C226	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C300	n.b.	nicht bestückt				n.b.	nicht bestückt
C301	n.b.	nicht bestückt				n.b.	nicht bestückt
C302	n.b.	nicht bestückt				n.b.	nicht bestückt
C303	n.b.	nicht bestückt				n.b.	nicht bestückt
C304	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C305	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C306	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C307	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C308	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C309	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C400	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C400_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C401	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C401_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C402	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C402_1	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C403	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C403_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C408	02-3981	CAPC 1 µF 16V 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C408_1	02-3981	CAPC 1 µF 16V 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
C409	02-3981	CAPC 1 µF 16V 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C409_1	02-3981	CAPC 1 µF 16V 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C500	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C501	32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm				32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm
C502	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C503	32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm				32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm
C504	02-1883	CAPC 220pF 5% 50V 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C505	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT				02-4850	CAPC 10µF 10% 50V X5R 1206 SMT
C506	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C507	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C508	32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm				32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm
C509	02-2247	CAPE 220mF -20%/+80% 5,5V RM5 THT 1000h@70°C 10,5x5,0mm				02-2247	CAPE 220mF -20%/+80% 5,5V RM5 THT 1000h@70°C 10,5x5,0mm
C510	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C511	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C512	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C513	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT				02-4850	CAPC 10µF 10% 50V X5R 1206 SMT
C514	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT				02-4679	CAPC 10µF 10% 25V X5R 0805 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
C515	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT				02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C516	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT				02-4850	CAPC 10µF 10% 50V X5R 1206 SMT
C517	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT				02-4850	CAPC 10µF 10% 50V X5R 1206 SMT
C518	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C519	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT				02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C520	02-2870	CAPC 1nF 10% 500V X7R 1206 SMT				02-2870	CAPC 1nF 10% 500V X7R 1206 SMT
C523	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C524	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT				02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C525	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT				02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C527	32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm				32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm
C600	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT				02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C601	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C602	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C603	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT				02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C604	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C605	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C606	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C607	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
C700	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C701	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT				02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C702	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C703	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT				02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C704	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C705	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT				02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C707	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C708	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C710	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT				02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C900	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C901	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C902	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C903	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C904	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C905	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C906	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C907	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C908	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C909	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT				02-1887	CAPC 100pF 5% 50V NPO 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
C910	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT				02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
D1000	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D1001	07-0970	IC TL431BIDBZ -40/+85°C SOT23-3 SMT Spannungsreferenz				07-0970	IC TL431BIDBZ -40/+85°C SOT23-3 SMT Spannungsreferenz
D1003	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D101	07-1683	IC STM32F051R8T6 -40/+85°C LQFP64 SMT Mikrocontroller				07-1683	IC STM32F051R8T6 -40/+85°C LQFP64 SMT Mikrocontroller
D1301	n.b.	nicht bestückt				n.b.	nicht bestückt
D1301_1	n.b.	nicht bestückt				n.b.	nicht bestückt
D1301_2	n.b.	nicht bestückt				n.b.	nicht bestückt
D1301_3	n.b.	nicht bestückt				n.b.	nicht bestückt
D301	06-3409	IC PCF8545 -40/+85°C TSSOP56 SMT LCD Driver				06-3409	IC PCF8545 -40/+85°C TSSOP56 SMT LCD Driver
D400	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D400_1	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D402	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D402_1	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D500	06-0016	IC SN74HC14 -40/+85°C Inverter SO14 SMT				06-0016	IC SN74HC14 -40/+85°C Inverter SO14 SMT
D501	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D600	07-3929	IC STM32F401CEU6 -40/+85°C UFQFPN48 SMT Mikrocontroller				07-3929	IC STM32F401CEU6 -40/+85°C UFQFPN48 SMT Mikrocontroller
D900	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D901	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D902	06-0351	IC SN75176BD 0/+70°C SO8 SMT Bustransceiver				06-0351	IC SN75176BD 0/+70°C SO8 SMT Bustransceiver
D903	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
D904	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT				11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
E500	05-2441-1	Li-Batt. 3V 1g 235mAh -Wh 20x3,2mm THT Li-Met				05-2441-1	Li-Batt. 3V 1g 235mAh -Wh 20x3,2mm THT Li-Met
G100	09-2025	CRYS 32,768kHz 12,5pF -ppm 7x1,5x1,4mm SMT 20ppm@25°C -40/+85°C				09-2025	CRYS 32,768kHz 12,5pF -ppm 7x1,5x1,4mm SMT 20ppm@25°C -40/+85°C
L501	04-0797	COIL 6,5mH 50% 420mR 600mA 9,2x6x5mm SMT				04-0797	COIL 6,5mH 50% 420mR 600mA 9,2x6x5mm SMT
N1000	11-2625-1	IC LM317MKTPR 0/+125°C DPAK3 SMT Spannungsregler				11-2625-1	IC LM317MKTPR 0/+125°C DPAK3 SMT Spannungsregler
N500	11-8546	IC MC34063EBD -40/+125°C SO8 SMT Schaltregler				11-9931	IC MC34063ABD -40/+85°C SO8 SMT Schaltregler
PCB	15-7378-3	PCB Metcom MCS301 Mainboard HAL Pbfree TG>= 130 rigid DK V1.2 1x panel sol637b				15-7378-3	PCB Metcom MCS301 Mainboard HAL Pbfree TG>= 130 rigid DK V1.2 1x panel sol637b
R100	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1000	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1002	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1005	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT				01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R1006	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT				01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R1008	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT				01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R1009	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT				01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R101	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1012	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R1014	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1015	01-0607	RES 4,7K 1% 0,1W 100ppm 0603 SMT				01-0607	RES 4,7K 1% 0,1W 100ppm 0603 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R1016	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1017	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1019	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT				01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R102	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT				01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R1020	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT				01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R1021	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT				01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R103	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R104	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT				01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R105	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R107	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT				01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R108	n.b.	nicht bestückt				n.b.	nicht bestückt
R109	n.b.	nicht bestückt				n.b.	nicht bestückt
R110	n.b.	nicht bestückt				n.b.	nicht bestückt
R1100	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R1101	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1103	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R111	n.b.	nicht bestückt				n.b.	nicht bestückt
R112	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT				01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R1200	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT				01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1200_1	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT				01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1200_2	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT				01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R1200_3	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT				01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1202	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT				01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1202_1	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT				01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1202_2	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT				01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1202_3	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT				01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1203	01-0160	RES 0R -% 0,25W xppm 1206 SMT				01-0160	RES 0R -% 0,25W xppm 1206 SMT
R1203_1	01-0160	RES 0R -% 0,25W xppm 1206 SMT				01-0160	RES 0R -% 0,25W xppm 1206 SMT
R1203_2	01-0160	RES 0R -% 0,25W xppm 1206 SMT				01-0160	RES 0R -% 0,25W xppm 1206 SMT
R1203_3	01-0160	RES 0R -% 0,25W xppm 1206 SMT				01-0160	RES 0R -% 0,25W xppm 1206 SMT
R1204	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1204_1	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1204_2	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1204_3	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1212	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1212_1	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1214	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1214_1	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1301	n.b.	nicht bestückt				n.b.	nicht bestückt
R1301_1	n.b.	nicht bestückt				n.b.	nicht bestückt
R1301_2	n.b.	nicht bestückt				n.b.	nicht bestückt
R1301_3	n.b.	nicht bestückt				n.b.	nicht bestückt

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R1302	n.b.	nicht bestückt				n.b.	nicht bestückt
R1302_1	n.b.	nicht bestückt				n.b.	nicht bestückt
R1302_2	n.b.	nicht bestückt				n.b.	nicht bestückt
R1302_3	n.b.	nicht bestückt				n.b.	nicht bestückt
R1304	n.b.	nicht bestückt				n.b.	nicht bestückt
R1304_1	n.b.	nicht bestückt				n.b.	nicht bestückt
R1304_2	n.b.	nicht bestückt				n.b.	nicht bestückt
R1304_3	n.b.	nicht bestückt				n.b.	nicht bestückt
R200	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R200_1	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R200_2	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R200_4	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R202	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R202_1	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R202_2	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R203	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R204	n.b.	nicht bestückt				n.b.	nicht bestückt
R206	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R206_1	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R206_2	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R206_4	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R207	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R208	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT				01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R209	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R210	n.b.	nicht bestückt				n.b.	nicht bestückt
R211	n.b.	nicht bestückt				n.b.	nicht bestückt
R212	n.b.	nicht bestückt				n.b.	nicht bestückt
R213	n.b.	nicht bestückt				n.b.	nicht bestückt
R222	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R222_1	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R222_2	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R300	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R301	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R302	01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT				01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT
R304	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R305	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT				01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT
R306	01-0898	RES 1M 1% 0,1W 100ppm 0603 SMT				01-0898	RES 1M 1% 0,1W 100ppm 0603 SMT
R307	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT				01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT
R308	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT				01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT
R400	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R400_1	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R401	01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT				01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT
R401_1	01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT				01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT
R402	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT				01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R402_1	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT				01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R403	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R403_1	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R408	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT				01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R408_1	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT				01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R409	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT				01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R409_1	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT				01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R410	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R410_1	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R411	??	~ 22k Minimelf				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R411_1	??	~ 22k Minimelf				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R412	??	~ 22k Minimelf				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R412_1	??	~ 22k Minimelf				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R413	??	~ 22k Minimelf				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R413_1	??	~ 22k Minimelf				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R414	??	~ 22k Minimelf				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R414_1	??	~ 22k Minimelf				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R415	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R415_1	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R500	01-6750	RES 240mR 1% 0,5W 100ppm 1206 SMT				01-6750	RES 240mR 1% 0,5W 100ppm 1206 SMT
R501	01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT				01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT
R502	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R503	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R504	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT				01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R505	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT				01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R506	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R511	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R512	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R514	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R515	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT				01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R517	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R518	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R600	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT				01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R601	n.b.	nicht bestückt				n.b.	nicht bestückt
R700	01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT				01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT
R701	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R702	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R703	01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT				01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R704	01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT				01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT
R705	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R707	n.b.	nicht bestückt				n.b.	nicht bestückt
R708	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R710	01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT				01-3661	RES 4,7M 1% 0,063W 100ppm 0603 SMT
R805	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R806	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT				01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R900	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R901	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT				01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R902	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R903	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT				01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R904	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R905	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT				01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R906	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R907	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R908	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R909	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT				01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R910	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R911	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT				01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
R912	01-3517-1	RES 1,8K 1% 0,063W 100ppm 0402 SMT				01-3517-1	RES 1,8K 1% 0,063W 100ppm 0402 SMT
R913	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT				01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT
R914	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R915	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT				01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R916	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R917	01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT				01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT
R918	01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT				01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT
R919	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT				01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R920	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT				01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
S100	05-3455	Taster 1-fach 180° 2,54mm pitch SMT				05-3455	Taster 1-fach 180° 2,54mm pitch SMT
S101	05-3455	Taster 1-fach 180° 2,54mm pitch SMT				05-3455	Taster 1-fach 180° 2,54mm pitch SMT
S102	05-3455	Taster 1-fach 180° 2,54mm pitch SMT				05-3455	Taster 1-fach 180° 2,54mm pitch SMT
S700	05-8332	Taster 1-fach 180° RM5,08 THT				05-8332	Taster 1-fach 180° RM5,08 THT
S701	05-8332	Taster 1-fach 180° RM5,08 THT				05-8332	Taster 1-fach 180° RM5,08 THT
T500	04-6570	TRAN 26,5x15,8x13,5mm SMT				04-6570	TRAN 26,5x15,8x13,5mm SMT
T900	08-8742	Fototransistor AA3528P3S 400µA PLCC2 SMT				08-8742	Fototransistor AA3528P3S 400µA PLCC2 SMT
TP1	n.b.	nicht bestückt				n.b.	nicht bestückt
TP100	n.b.	nicht bestückt				n.b.	nicht bestückt
TP101	n.b.	nicht bestückt				n.b.	nicht bestückt
TP102	n.b.	nicht bestückt				n.b.	nicht bestückt
TP103	n.b.	nicht bestückt				n.b.	nicht bestückt
TP104	n.b.	nicht bestückt				n.b.	nicht bestückt

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
TP1100	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1101	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1102	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1200	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1201	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1202	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1203	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1204	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1205	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1206	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1207	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1208	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1209	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1210	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1212	n.b.	nicht bestückt				n.b.	nicht bestückt
TP1213	n.b.	nicht bestückt				n.b.	nicht bestückt
TP2	n.b.	nicht bestückt				n.b.	nicht bestückt
TP200	n.b.	nicht bestückt				n.b.	nicht bestückt
TP201	n.b.	nicht bestückt				n.b.	nicht bestückt
TP202	n.b.	nicht bestückt				n.b.	nicht bestückt
TP203	n.b.	nicht bestückt				n.b.	nicht bestückt
TP204	n.b.	nicht bestückt				n.b.	nicht bestückt
TP205	n.b.	nicht bestückt				n.b.	nicht bestückt
TP206	n.b.	nicht bestückt				n.b.	nicht bestückt
TP207	n.b.	nicht bestückt				n.b.	nicht bestückt
TP208	n.b.	nicht bestückt				n.b.	nicht bestückt
TP400	n.b.	nicht bestückt				n.b.	nicht bestückt
TP401	n.b.	nicht bestückt				n.b.	nicht bestückt
TP402	n.b.	nicht bestückt				n.b.	nicht bestückt
TP501	n.b.	nicht bestückt				n.b.	nicht bestückt
TP502	n.b.	nicht bestückt				n.b.	nicht bestückt
TP503	n.b.	nicht bestückt				n.b.	nicht bestückt
TP504	n.b.	nicht bestückt				n.b.	nicht bestückt
TP505	n.b.	nicht bestückt				n.b.	nicht bestückt
TP506	n.b.	nicht bestückt				n.b.	nicht bestückt
TP507	n.b.	nicht bestückt				n.b.	nicht bestückt
TP508	n.b.	nicht bestückt				n.b.	nicht bestückt
TP509	n.b.	nicht bestückt				n.b.	nicht bestückt

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
TP510	n.b.	nicht bestückt				n.b.	nicht bestückt
TP511	n.b.	nicht bestückt				n.b.	nicht bestückt
TP512	n.b.	nicht bestückt				n.b.	nicht bestückt
TP700	n.b.	nicht bestückt				n.b.	nicht bestückt
TP701	n.b.	nicht bestückt				n.b.	nicht bestückt
TP702	n.b.	nicht bestückt				n.b.	nicht bestückt
TP703	n.b.	nicht bestückt				n.b.	nicht bestückt
TP704	n.b.	nicht bestückt				n.b.	nicht bestückt
TP705	n.b.	nicht bestückt				n.b.	nicht bestückt
TP900	n.b.	nicht bestückt				n.b.	nicht bestückt
TP901	n.b.	nicht bestückt				n.b.	nicht bestückt
TP902	n.b.	nicht bestückt				n.b.	nicht bestückt
U1200	04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT				04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT
U1200_1	04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT				04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT
U1200_2	04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT				04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT
U1200_3	04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT				04-6347	Relais tbd 400V 140mA 5,3kV SMD 6 SMT
V100	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm				08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm
V1000	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT				08-1152	T BCX71H PNP 45V 100mA SOT23 SMT
V1001	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V1002	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V1003	08-0844	DIO P6SMBJ40CA 40V 9,3A bi SMB SMT				08-0844	DIO P6SMBJ40CA 40V 9,3A bi SMB SMT
V1004	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT				08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V1005	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V1006	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT				08-1152	T BCX71H PNP 45V 100mA SOT23 SMT
V101	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
V102	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V103	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm				08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm
V1100	08-0593	T BC807-40 PNP 45V 500mA SOT23 SMT				08-0593	T BC807-40 PNP 45V 500mA SOT23 SMT
V1101	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT				08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V1102	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V1200	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT				08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT
V1200_1	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT				08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT
V1200_2	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT				08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT
V1200_3	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT				08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT
V1204	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V1204_1	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V1204_2	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V1204_3	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V1212	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT				08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT
V1212_1	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT				08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT
V1214	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V1214_1	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V1216	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V1216_1	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
V1318	n.b.	nicht bestückt				n.b.	nicht bestückt
V1318_1	n.b.	nicht bestückt				n.b.	nicht bestückt
V1318_2	n.b.	nicht bestückt				n.b.	nicht bestückt
V1318_3	n.b.	nicht bestückt				n.b.	nicht bestückt
V1319	n.b.	nicht bestückt				n.b.	nicht bestückt
V1319_1	n.b.	nicht bestückt				n.b.	nicht bestückt
V1319_2	n.b.	nicht bestückt				n.b.	nicht bestückt
V1319_3	n.b.	nicht bestückt				n.b.	nicht bestückt
V1320	n.b.	nicht bestückt				n.b.	nicht bestückt
V1320_1	n.b.	nicht bestückt				n.b.	nicht bestückt
V1320_2	n.b.	nicht bestückt				n.b.	nicht bestückt
V1320_3	n.b.	nicht bestückt				n.b.	nicht bestückt
V200	07-3930	IC ATM90E36A-AU -40/+85°C TQFP48 SMT Energy Metering				07-3930	IC ATM90E36A-AU -40/+85°C TQFP48 SMT Energy Metering
V300	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT				08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V301	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm				08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm
V302	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm				08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm
V303	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm				08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm
V304	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V400	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT				08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT
V400_1	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT				08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT
V401	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT				08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V401_1	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT				08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V402	08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT				08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT
V402_1	08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT				08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT
V403	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
V403_1	08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT				08-0653	T 2N7002 N-Kanal 60V 115mA SOT23 SMT
V408	08-2189	DIO S1M 1kV 1A uni DO214AC SMT				08-2189	DIO S1M 1kV 1A uni DO214AC SMT
V408_1	08-2189	DIO S1M 1kV 1A uni DO214AC SMT				08-2189	DIO S1M 1kV 1A uni DO214AC SMT
V500	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT				08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V503	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT				08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V504	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT				08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V505	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V506	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V507	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V508	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT				08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V509	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V511	08-1618	DIO MBRA340T3 40V 3A uni SMA SMT				08-1618	DIO MBRA340T3 40V 3A uni SMA SMT
V512	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT				08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V514	08-4149	DIOZ TZMC39GS08 39V 2,5mA Minimelf SMT				08-4149	DIOZ TZMC39GS08 39V 2,5mA Minimelf SMT
V518	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT				08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V600	08-0621-3	DIO BAV170 60V 125mA uni SOT23 SMT				08-0621-3	DIO BAV170 60V 125mA uni SOT23 SMT
V700	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V701	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT				08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V702	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT

Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
V703	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V704	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V705	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT				08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V706	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT				08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V707	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V900	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT				08-1152	T BCX71H PNP 45V 100mA SOT23 SMT
V901	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V902	08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT				08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT
V903	08-4505	DIOZ BZV55C6V8 6,8V 250mA Minimelf SMT				08-4505	DIOZ BZV55C6V8 6,8V 250mA Minimelf SMT
V904	08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT				08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT
V905	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V906	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT				08-1152	T BCX71H PNP 45V 100mA SOT23 SMT
V907	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V908	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V909	08-8479	IRLED SFH 4059 1-fach 860nm 1,6x3,2x1,8mm SMT A				08-8479	IRLED SFH 4059 1-fach 860nm 1,6x3,2x1,8mm SMT A
V910	08-0180	BC817-40				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V911	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT				08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V912	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT				08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V913	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT				08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT

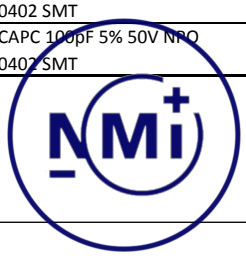
Position	Artikel sol637.01rc1_000 V1.2.1 x01	Bezeichnung				Artikel sol637.04rb1_004 V1.1.9 x01	Bezeichnung
V914	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT				08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
WIP	18-3442	BMK-Label 5x5mm Polyester weiß 2D-WIP-Label BMK-Standard RT:05-8219				18-3442	BMK-Label 5x5mm Polyester weiß 2D-WIP-Label BMK-Standard RT:05-8219
X100	03-0084	SL 3p 180° RM2,54 THT				03-0084	SL 3p 180° RM2,54 THT
X101	03-0088-9	SL 2p 180° RM2,54 THT				03-0088-9	SL 2p 180° RM2,54 THT
X102	03-0086	SL 2x4p 180° RM2,54 THT				03-0086	SL 2x4p 180° RM2,54 THT
X1101	03-2680	SL 6p 180° RM2,54 THT				03-2680	SL 6p 180° RM2,54 THT
X1103	03-0451-2	SL 8p 180° RM2,54 THT				03-0451-2	SL 8p 180° RM2,54 THT
X1200	24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT				24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT
X400	24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT				24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT
X401	24-1999	KL 3p 90° Schraubklemme Blau RM5,08 THT				24-1999	KL 3p 90° Schraubklemme Blau RM5,08 THT
X500	05-4686	Befestigungselement Feder 5x3x4mm SMT				05-4686	Befestigungselement Feder 5x3x4mm SMT
X501	05-4686	Befestigungselement Feder 5x3x4mm SMT				05-4686	Befestigungselement Feder 5x3x4mm SMT
X502	05-4686	Befestigungselement Feder 5x3x4mm SMT				05-4686	Befestigungselement Feder 5x3x4mm SMT
X600	03-0086	SL 2x4p 180° RM2,54 THT				03-0086	SL 2x4p 180° RM2,54 THT
X800	n.b.	nicht bestückt				n.b.	nicht bestückt
X900	24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT				24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT

Position	Artikel sol637.01rc1_012	Bezeichnung		Artikel sol637.01rd1_003	Bezeichnung
	x01 V1.2			x01 V1.3	
X1100	sol644.00rc1	MCS301 Modulplatine V1.2 Solutions# met005.00rc1		sol644.00rc1	MCS301 Modulplatine V1.2 Solutions# met005.00rc1
C509	02-2247	CAPE 220mF -20%/+80% 5,5V RM5 THT 1000h@70°C 10,5x5,0mm		02-2247	CAPE 220mF -20%/+80% 5,5V RM5 THT 1000h@70°C Z 10,5x5,0mm
D101	07-1683	IC STM32F051R8T6 -40/+85°C LQFP64 SMT Mikrocontroller		07-1683	IC STM32F051R8T6 -40/+85°C LQFP64 SMT Mikrocontroller
D600	07-3929	IC STM32F401CEU6 -40/+85°C UFQFPN48 SMT Mikrocontroller		07-3929	IC STM32F401CEU6 -40/+85°C UFQFPN48 SMT Microcontroller
PCB	15-7378-3	PCB Metcom MCS301 Mainboard rigid HAL PbFree TG>=130 02Layer 1x Panel		15-7378-4	PCB Metcom MCS301 Mainboard rigid HAL PbFree TG>=130 02Layer 1x Panel
R921	Nicht Best.			01-0160	RES 0R -% 0,25W xppm 1206 SMT
R922	Nicht Best.			01-0160	RES 0R -% 0,25W xppm 1206 SMT
R923	n.b.			n.b.	nicht bestückt
R924	n.b.			n.b.	nicht bestückt
V915	Nicht Best.			08-0031	DIOZ TZMC2V7 2,7V 200mA Minimelf SMT
A300	05-1472	LCD-Display FL9083PA1 - 0- 83,5x31,0x29,7mm THT		05-1472	LCD-Display FL9083PA1 - 0- 83,5x31,0x29,7mm THT
B700	11-7114-1	Hall-Sensor AH180-WG-7 SOT23 SMT -40/+85°C		11-7114-1	Hall-Sensor AH180-WG-7 SOT23 SMT -40/+85°C
C100	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C101	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C102	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT		02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT
C103	02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT		02-1904-3	CAPC 10pF 5% 50V NPO 0402 SMT
C104	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C105	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C106	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C107	n.b.	nicht bestückt		n.b.	nicht bestückt
C108	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C109	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C110	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C111	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C112	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT		02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C113	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C114	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C115	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C116	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT

C117	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C200	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C201	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT		02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C202	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C203	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C204	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C205	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C206	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C208	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C212	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT		02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C213	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C215	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C216	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C217	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C218	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C221	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C222	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C225	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C226	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C300	n.b.	nicht bestückt		n.b.	nicht bestückt
C301	n.b.	nicht bestückt		n.b.	nicht bestückt
C302	n.b.	nicht bestückt		n.b.	nicht bestückt
C303	n.b.	nicht bestückt		n.b.	nicht bestückt
C304	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C305	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C306	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C307	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C308	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C309	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C400	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C401	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C402	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C403	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT

C408	02-3981	CAPC 1µF 10% 16V X5R 0402 SMT		02-3981	CAPC 1µF 10% 16V X5R 0402 SMT
C409	02-3981	CAPC 1µF 10% 16V X5R 0402 SMT		02-3981	CAPC 1µF 10% 16V X5R 0402 SMT
C500	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C501	32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm		32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm
C502	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C503	32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm		32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm
C504	02-1883	CAPC 220pF 10% 50V X7R 0402 SMT		02-1883	CAPC 220pF 10% 50V X7R 0402 SMT
C505	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT		02-4850	CAPC 10µF 10% 50V X5R 1206 SMT
C506	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C507	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C508	32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm		32-6002	CAPE 220µF 20% 10V RM2,5 THT 10000h@105°C Z 6,3x11mm
C510	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C511	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C512	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C513	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT		02-4850	CAPC 10µF 10% 50V X5R 1206 SMT
C514	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT		02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C515	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT		02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C516	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT		02-4850	CAPC 10µF 10% 50V X5R 1206 SMT
C517	02-4850	CAPC 10µF 10% 50V X5R 1206 SMT		02-4850	CAPC 10µF 10% 50V X5R 1206 SMT
C518	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 1nF 10% 50V X7R 0402 SMT
C519	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT		02-1197	CAPC 1nF 10% 500V X7R 1206 SMT
C520	02-2870	CAPC 1nF 10% 500V X7R 1206 SMT		02-2870	CAPC 2,2nF 20% 500V Y5U Z RM9,5 THT
C521	32-0451	CAPC 2,2nF 20% 500V Y5U Z RM9,5 THT		32-0451	CAPC 2,2nF 20% 500V Y5U Z RM9,5 THT
C522	32-0451	CAPC 2,2nF 20% 500V Y5U Z RM9,5 THT		32-0451	CAPC 100nF 10% 50V X7R 0402 SMT
C523	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 1nF 10% 50V X7R 0402 SMT
C524	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT		02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C525	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT		02-1197	nicht bestückt
C526	n.b.	nicht bestückt		n.b.	nicht bestückt
C527	32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm		32-0441	CAPE 150µF 20% 50V 8000h@105°C RM5 THT lowImp 61mR Z 10x12,5mm

C600	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C601	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C602	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C603	02-4679	CAPC 10µF 10% 25V X5R 0805 SMT		02-4679	CAPC 10µF 10% 25V X5R 0805 SMT
C604	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C605	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C606	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C607	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C700	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C701	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT		02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C702	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C703	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT		02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C704	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C705	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT		02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C706	n.b.	nicht bestückt		n.b.	nicht bestückt
C707	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C708	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C710	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT		02-1197	CAPC 1nF 10% 50V X7R 0402 SMT
C800	n.b.	nicht bestückt		n.b.	nicht bestückt
C801	n.b.	nicht bestückt		n.b.	nicht bestückt
C802	n.b.	nicht bestückt		n.b.	nicht bestückt
C900	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C901	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C902	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C903	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C904	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C905	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C906	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C907	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C908	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C909	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C910	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1000	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT



C1003	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1004	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1100	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1101	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1102	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C1200	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1202	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1306	n.b.	nicht bestückt		n.b.	nicht bestückt
C1307	n.b.	nicht bestückt		n.b.	nicht bestückt
C1200_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1200_2	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1200_3	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1202_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1202_2	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1202_3	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C1306_1	n.b.	nicht bestückt		n.b.	nicht bestückt
C1306_2	n.b.	nicht bestückt		n.b.	nicht bestückt
C1306_3	n.b.	nicht bestückt		n.b.	nicht bestückt
C1307_1	n.b.	nicht bestückt		n.b.	nicht bestückt
C1307_2	n.b.	nicht bestückt		n.b.	nicht bestückt
C1307_3	n.b.	nicht bestückt		n.b.	nicht bestückt
C200_1	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C200_2	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C200_3	n.b.	nicht bestückt		n.b.	nicht bestückt
C202_1	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C202_2	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C202_3	n.b.	nicht bestückt		n.b.	nicht bestückt
C215_1	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C215_2	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C216_1	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C216_2	02-2200	CAPC 10nF 10% 50V X7R 0402 SMT		02-2200	CAPC 10nF 10% 50V X7R 0402 SMT
C400_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C401_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C402_1	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT		02-4561	CAPC 100nF 10% 50V X7R 0402 SMT
C403_1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT		02-1887	CAPC 100pF 5% 50V NPO 0402 SMT
C408_1	02-3981	CAPC 1µF 10% 16V X5R 0402 SMT		02-3981	CAPC 1µF 10% 16V X5R 0402 SMT

C409_1	02-3981	CAPC 1µF 10% 16V X5R 0402 SMT		02-3981	CAPC 1µF 10% 16V X5R 0402 SMT
D100	10-3880	IC IS25LP032D-JNLE -40/+105°C SO8-150-mil SMT Serial Flash Memory		10-3880	IC IS25LP032D-JNLE -40/+105°C SO8-150-mil SMT Serial Flash Memory
D301	06-3409	IC PCF8545 -40/+85°C TSSOP56 SMT LCD Driver		06-3409	IC PCF8545 -40/+85°C TSSOP56 SMT LCD Driver
D400	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D402	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D500	06-0016	IC SN74HC14 -40/+85°C Inverter SO14 SMT		06-0016	IC SN74HC14 -40/+85°C Inverter SO14 SMT
D501	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D800	n.b.	nicht bestückt		n.b.	nicht bestückt
D900	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D901	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D902	06-0351	IC SN75176BD 0/+70°C SO8 SMT Bustransceiver		06-0351	IC SN75176BD 0/+70°C SO8 SMT Bustransceiver
D903	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D904	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D905	n.b.	nicht bestückt		n.b.	nicht bestückt
D1000	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D1001	07-0970	IC TL431BIDBZ -40/+85°C SOT23-3 SMT Spannungsreferenz		07-0970	IC TL431BIDBZ -40/+85°C SOT23-3 SMT Spannungsreferenz
D1003	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D1301	n.b.	nicht bestückt		n.b.	nicht bestückt
D1301_1	n.b.	nicht bestückt		n.b.	nicht bestückt
D1301_2	n.b.	nicht bestückt		n.b.	nicht bestückt
D1301_3	n.b.	nicht bestückt		n.b.	nicht bestückt
D400_1	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
D402_1	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT		11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT
E500	05-2441-1	Li-Batt. 3V 1g 235mAh -Wh 20x3,2mm THT Li-Met		05-2441-1	Li-Batt. 3V 1g 235mAh -Wh 20x3,2mm THT Li-Met
G100	09-2025	CRYS 32,768kHz 12,5pF -ppm 7x1,5x1,4mm SMT 20ppm@25°C -40/+85°C		09-2025	CRYS 32,768kHz 12,5pF -ppm 7x1,5x1,4mm SMT 20ppm@25°C -40/+85°C
G200	09-2687	CRYS 16,384MHz 30pF 30ppm 11,4x4,9x4,3mm SMT 50ppm@25°C -40/+85°C		09-2687	CRYS 16,384MHz 30pF 30ppm 11,4x4,9x4,3mm SMT 50ppm@25°C -40/+85°C
G500	n.b.	nicht bestückt		n.b.	nicht bestückt
K1212	04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT		04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT
K1212_1	04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT		04-5187-1	Relais NO 277V 10A 12V 20x15x10,2mm THT
L500	04-1793	COIL 150µH 10% 460mR 600mA 7x7,8x5mm SMT		04-1793	COIL 150µH 10% 460mR 600mA 7x7,8x5mm SMT
L501	04-0797	COIL 6,5mH 50% 420mR 600mA 9,2x6x5mm SMT		04-0797	COIL 6,5mH 50% 420mR 600mA 9,2x6x5mm SMT
N500	11-8546	IC MC34063EBD -40/+125°C SO8 SMT Schaltregler		11-8546	IC MC34063EBD -40/+125°C SO8 SMT Schaltregler
N1000	11-2625-1	IC LM317MKTPR 0/+125°C DPAK3 SMT Spannungsregler		11-2625-1	IC LM317MKTPR 0/+125°C DPAK3 SMT Spannungsregler

R100	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R101	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R102	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT		01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R103	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R104	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT		01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R105	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R107	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT		01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R108	n.b.	nicht bestückt		n.b.	nicht bestückt
R109	n.b.	nicht bestückt		n.b.	nicht bestückt
R110	n.b.	nicht bestückt		n.b.	nicht bestückt
R111	n.b.	nicht bestückt		n.b.	nicht bestückt
R112	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT		01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R113	n.b.	nicht bestückt		n.b.	nicht bestückt
R200	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R201	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT		01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R202	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R203	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R204	n.b.	nicht bestückt		n.b.	nicht bestückt
R205	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT		01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R206	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R207	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R208	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT		01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R209	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R210	n.b.	nicht bestückt		n.b.	nicht bestückt
R211	n.b.	nicht bestückt		n.b.	nicht bestückt
R212	n.b.	nicht bestückt		n.b.	nicht bestückt
R213	n.b.	nicht bestückt		n.b.	nicht bestückt
R222	01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT		01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT
R224	01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT		01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT
R225	01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT		01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT
R300	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R301	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R302	01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT		01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT
R303	n.b.	nicht bestückt		n.b.	nicht bestückt
R304	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R305	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT		01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT

R306	01-0898	RES 1M 1% 0,1W 100ppm 0603 SMT		01-0898	RES 1M 1% 0,1W 100ppm 0603 SMT
R307	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT		01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT
R308	01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT		01-0947	RES 22R 1% 0,1W 100ppm 0603 SMT
R400	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R401	01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT		01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT
R402	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT		01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R403	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R408	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT		01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R409	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT		01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R410	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R411	01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT		01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT
R412	01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT		01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT
R413	01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT		01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT
R414	01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT		01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT
R415	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R500	01-6750	RES 240mR 1% 0,5W 100ppm 1206 SMT		01-6750	RES 240mR 1% 0,5W 100ppm 1206 SMT
R501	01-1745	RES 24K 1% 0,1W 100ppm 0603 SMT		01-1745	RES 24K 1% 0,1W 100ppm 0603 SMT
R502	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R503	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R504	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT		01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R505	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT		01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R506	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R507	01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT		01-0960	RES 100K 1% 0,1W 100ppm 0603 SMT
R508	01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT		01-0885	RES 22K 1% 0,1W 100ppm 0603 SMT
R509	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT		01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R510	01-1309	RES 11K 1% 0,1W 100ppm 0603 SMT		01-1309	RES 11K 1% 0,1W 100ppm 0603 SMT
R511	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R512	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R513	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT		01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R514	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R515	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT		01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT

R516	n.b.	nicht bestückt		n.b.	nicht bestückt
R517	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R518	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R600	01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT		01-1906	RES 100R 1% 0,063W 100ppm 0402 SMT
R601	n.b.	nicht bestückt		n.b.	nicht bestückt
R700	01-3661	RES 4,7M 1% 0,1W 100ppm 0603 SMT		01-3661	RES 4,7M 1% 0,1W 100ppm 0603 SMT
R701	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R702	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R703	01-3661	RES 4,7M 1% 0,1W 100ppm 0603 SMT		01-3661	RES 4,7M 1% 0,1W 100ppm 0603 SMT
R704	01-3661	RES 4,7M 1% 0,1W 100ppm 0603 SMT		01-3661	RES 4,7M 1% 0,1W 100ppm 0603 SMT
R705	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R706	n.b.	nicht bestückt		n.b.	nicht bestückt
R707	n.b.	nicht bestückt		n.b.	nicht bestückt
R708	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R710	01-3661	RES 4,7M 1% 0,1W 100ppm 0603 SMT		01-3661	RES 4,7M 1% 0,1W 100ppm 0603 SMT
R800	n.b.	nicht bestückt		n.b.	nicht bestückt
R801	n.b.	nicht bestückt		n.b.	nicht bestückt
R802	n.b.	nicht bestückt		n.b.	nicht bestückt
R803	n.b.	nicht bestückt		n.b.	nicht bestückt
R804	n.b.	nicht bestückt		n.b.	nicht bestückt
R805	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R806	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R900	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R901	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT		01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R902	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R903	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT		01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R904	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R905	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT		01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R906	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R907	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R908	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R909	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT		01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R910	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R911	01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT		01-0820	RES 220R 1% 0,1W 100ppm 0603 SMT
R912	01-3517-1	RES 1,8K 1% 0,063W 100ppm 0402 SMT		01-3517-1	RES 1,8K 1% 0,063W 100ppm 0402 SMT

R913	01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT		01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT
R914	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R915	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R916	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R917	01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT		01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT
R918	01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT		01-0884	RES 560R 1% 0,1W 100ppm 0603 SMT
R919	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R920	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1000	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1001	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R1002	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1003	01-3889	RES 270R 1% 0,063W 100ppm 0402 SMT		01-3889	RES 270R 1% 0,063W 100ppm 0402 SMT
R1004	01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT		01-3474	RES 220R 1% 0,063W 100ppm 0402 SMT
R1005	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT		01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R1006	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT		01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R1007	01-3455	RES 22K 1% 0,063W 100ppm 0402 SMT		01-3455	RES 22K 1% 0,063W 100ppm 0402 SMT
R1008	01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT		01-1908	RES 10R 1% 0,063W 200ppm 0402 SMT
R1009	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT		01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R1010	01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT		01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT
R1011	01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT		01-2654	RES 27K 1% 0,063W 100ppm 0402 SMT
R1012	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R1013	n.b.	nicht bestückt		n.b.	nicht bestückt
R1014	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1015	01-0607	RES 4,7K 1% 0,1W 100ppm 0603 SMT		01-0607	RES 4,7K 1% 0,1W 100ppm 0603 SMT
R1016	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1017	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1018	n.b.	nicht bestückt		n.b.	nicht bestückt
R1019	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT		01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R1020	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT		01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R1021	01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT		01-0489	RES 33K 1% 0,1W 100ppm 0603 SMT
R1022	01-1418	RES 240R 1% 0,1W 100ppm 0603 SMT		01-1418	RES 240R 1% 0,1W 100ppm 0603 SMT

R1100	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
R1101	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1102	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R1103	01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT		01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT
R1200	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT		01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1202	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT		01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1203	01-0160	RES 0R -% 0,25W xppm 1206 SMT		01-0160	RES 0R -% 0,25W xppm 1206 SMT
R1204	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1212	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1214	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1301	n.b.	nicht bestückt		n.b.	nicht bestückt
R1302	n.b.	nicht bestückt		n.b.	nicht bestückt
R1304	n.b.	nicht bestückt		n.b.	nicht bestückt
R1200_1	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT		01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1200_2	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT		01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1200_3	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT		01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1202_1	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT		01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1202_2	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT		01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1202_3	01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT		01-0596	RES 180R 1% 0,1W 100ppm 0603 SMT
R1203_1	01-0160	RES 0R -% 0,25W xppm 1206 SMT		01-0160	RES 0R -% 0,25W xppm 1206 SMT
R1203_2	01-0160	RES 0R -% 0,25W xppm 1206 SMT		01-0160	RES 0R -% 0,25W xppm 1206 SMT
R1203_3	01-0160	RES 0R -% 0,25W xppm 1206 SMT		01-0160	RES 0R -% 0,25W xppm 1206 SMT
R1204_1	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1204_2	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1204_3	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1212_1	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1214_1	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R1301_1	n.b.	nicht bestückt		n.b.	nicht bestückt
R1301_2	n.b.	nicht bestückt		n.b.	nicht bestückt
R1301_3	n.b.	nicht bestückt		n.b.	nicht bestückt
R1302_1	n.b.	nicht bestückt		n.b.	nicht bestückt
R1302_2	n.b.	nicht bestückt		n.b.	nicht bestückt
R1302_3	n.b.	nicht bestückt		n.b.	nicht bestückt
R1304_1	n.b.	nicht bestückt		n.b.	nicht bestückt
R1304_2	n.b.	nicht bestückt		n.b.	nicht bestückt
R1304_3	n.b.	nicht bestückt		n.b.	nicht bestückt

R200_1	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R200_2	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R200_3	n.b.	nicht bestückt		n.b.	nicht bestückt
R200_4	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R201_1	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT		01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R201_2	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT		01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R201_3	n.b.	nicht bestückt		n.b.	nicht bestückt
R202_1	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R202_2	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT		01-1890	RES 0R x% 0,063W 200ppm 0402 SMT
R202_3	n.b.	nicht bestückt		n.b.	nicht bestückt
R205_1	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT		01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R205_2	01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT		01-1186	RES 15R 1% 0,25W 50ppm Minimelf SMT
R205_3	n.b.	nicht bestückt		n.b.	nicht bestückt
R206_1	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R206_2	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R206_3	n.b.	nicht bestückt		n.b.	nicht bestückt
R206_4	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R222_1	01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT		01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT
R222_2	01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT		01-0929	RES 100K 1% 0,25W 50ppm Minimelf SMT
R224_1	01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT		01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT
R224_2	01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT		01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT
R225_1	01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT		01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT
R225_2	01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT		01-0675	RES 220R 1% 0,25W 50ppm Minimelf SMT
R400_1	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R401_1	01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT		01-0216	RES 100R 1% 0,25W 100ppm 1206 SMT
R402_1	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT		01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R403_1	01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT		01-1927	RES 1M 1% 0,063W 100ppm 0402 SMT
R408_1	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT		01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R409_1	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT		01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT
R410_1	01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT		01-1911	RES 1K 1% 0,063W 100ppm 0402 SMT
R411_1	01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT		01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT
R412_1	01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT		01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT
R413_1	01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT		01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT

R414_1	01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT		01-0672	RES 22K 1% 0,25W 50ppm Minimelf SMT
R415_1	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT		01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT
RHB0	80-4000	Hilfstoffe SMT		80-4000	Hilfstoffe SMT
S100	05-3455	Taster 1-fach 180° 2,54mm pitch SMT		05-3455	Taster 1-fach 180° 2,54mm pitch SMT
S101	05-3455	Taster 1-fach 180° 2,54mm pitch SMT		05-3455	Taster 1-fach 180° 2,54mm pitch SMT
S102	05-3455	Taster 1-fach 180° 2,54mm pitch SMT		05-3455	Taster 1-fach 180° 2,54mm pitch SMT
S700	05-8332	Taster 1-fach 180° RM5,08 THT		05-8332	Taster 1-fach 180° RM5,08 THT
S701	05-8332	Taster 1-fach 180° RM5,08 THT		05-8332	Taster 1-fach 180° RM5,08 THT
SMT_Paste	80-2435	M705-GRN360-K1-V BAS992 Lötpaste bleifrei #17644 500 gr Dose		80-2435	M705-GRN360-K1-V BAS992 Lötpaste bleifrei #17644 500 gr Dose
T500	04-6570	TRAN 26,5x15,8x13,5mm SMT		04-6570	TRAN 26,5x15,8x13,5mm SMT
T900	08-8742	Fototransistor AA3528P3S 400µA PLCC2 SMT		08-8742	Fototransistor AA3528P3S 400µA PLCC2 SMT
TP1	n.b.	nicht bestückt		n.b.	nicht bestückt
TP2	n.b.	nicht bestückt		n.b.	nicht bestückt
TP100	n.b.	nicht bestückt		n.b.	nicht bestückt
TP101	n.b.	nicht bestückt		n.b.	nicht bestückt
TP102	n.b.	nicht bestückt		n.b.	nicht bestückt
TP103	n.b.	nicht bestückt		n.b.	nicht bestückt
TP104	n.b.	nicht bestückt		n.b.	nicht bestückt
TP200	n.b.	nicht bestückt		n.b.	nicht bestückt
TP201	n.b.	nicht bestückt		n.b.	nicht bestückt
TP202	n.b.	nicht bestückt		n.b.	nicht bestückt
TP203	n.b.	nicht bestückt		n.b.	nicht bestückt
TP204	n.b.	nicht bestückt		n.b.	nicht bestückt
TP205	n.b.	nicht bestückt		n.b.	nicht bestückt
TP206	n.b.	nicht bestückt		n.b.	nicht bestückt
TP207	n.b.	nicht bestückt		n.b.	nicht bestückt
TP208	n.b.	nicht bestückt		n.b.	nicht bestückt
TP400	n.b.	nicht bestückt		n.b.	nicht bestückt
TP401	n.b.	nicht bestückt		n.b.	nicht bestückt
TP402	n.b.	nicht bestückt		n.b.	nicht bestückt
TP501	n.b.	nicht bestückt		n.b.	nicht bestückt
TP502	n.b.	nicht bestückt		n.b.	nicht bestückt
TP503	n.b.	nicht bestückt		n.b.	nicht bestückt
TP504	n.b.	nicht bestückt		n.b.	nicht bestückt
TP505	n.b.	nicht bestückt		n.b.	nicht bestückt
TP506	n.b.	nicht bestückt		n.b.	nicht bestückt
TP507	n.b.	nicht bestückt		n.b.	nicht bestückt
TP508	n.b.	nicht bestückt		n.b.	nicht bestückt
TP509	n.b.	nicht bestückt		n.b.	nicht bestückt
TP510	n.b.	nicht bestückt		n.b.	nicht bestückt
TP511	n.b.	nicht bestückt		n.b.	nicht bestückt
TP512	n.b.	nicht bestückt		n.b.	nicht bestückt
TP700	n.b.	nicht bestückt		n.b.	nicht bestückt
TP701	n.b.	nicht bestückt		n.b.	nicht bestückt
TP702	n.b.	nicht bestückt		n.b.	nicht bestückt
TP703	n.b.	nicht bestückt		n.b.	nicht bestückt
TP704	n.b.	nicht bestückt		n.b.	nicht bestückt
TP705	n.b.	nicht bestückt		n.b.	nicht bestückt
TP900	n.b.	nicht bestückt		n.b.	nicht bestückt
TP902	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1100	n.b.	nicht bestückt		n.b.	nicht bestückt

TP1101	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1102	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1200	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1201	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1202	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1203	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1204	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1205	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1206	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1207	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1208	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1209	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1210	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1212	n.b.	nicht bestückt		n.b.	nicht bestückt
TP1213	n.b.	nicht bestückt		n.b.	nicht bestückt
U1200	04-6347	Halbleiterrelais NO 400V 140mA SMD 6 SMT 5V		04-6347	Halbleiterrelais NO 400V 140mA SMD 6 SMT 5V
U1200_1	04-6347	Halbleiterrelais NO 400V 140mA SMD 6 SMT 5V		04-6347	Halbleiterrelais NO 400V 140mA SMD 6 SMT 5V
U1200_2	04-6347	Halbleiterrelais NO 400V 140mA SMD 6 SMT 5V		04-6347	Halbleiterrelais NO 400V 140mA SMD 6 SMT 5V
U1200_3	04-6347	Halbleiterrelais NO 400V 140mA SMD 6 SMT 5V		04-6347	Halbleiterrelais NO 400V 140mA SMD 6 SMT 5V
V100	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm		08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm
V101	08-1274	DIO BAS40-04 40V 200mA uni SOT23 SMT		08-1274	DIO BAS40-04 40V 200mA uni SOT23 SMT
V102	08-1274	DIO BAS40-04 40V 200mA uni SOT23 SMT		08-1274	DIO BAS40-04 40V 200mA uni SOT23 SMT
V103	08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm		08-1485	LED KPTL-3216SURCK 1-fach rot 1206 SMT 645nm
V200	07-3930	IC ATM90E36A-AU -40/+85°C TQFP48 SMT Energy Metering		07-3930	IC ATM90E36A-AU -40/+85°C TQFP48 SMT Energy Metering
V300	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT		08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V301	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm		08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm
V302	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm		08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm
V303	08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm		08-5723	LED LWQ38E-Q1S2-3K6L-1 1-fach 0603 SMT weiss -nm
V304	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V400	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT		08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT
V401	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT		08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V402	08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT		08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT
V403	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V408	08-2189	DIO S1M 1kV 1A uni DO214AC SMT		08-2189	DIO S1M 1kV 1A uni DO214AC SMT
V500	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT		08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V501	08-0678-3	DIO BAV103 200V 500mA uni Minimelf SMT		08-0678-3	DIO BAV103 200V 500mA uni Minimelf SMT
V502	08-0842-1	DIO ES1D 200V 1A uni SMA SMT		08-0842-1	DIO ES1D 200V 1A uni SMA SMT
V503	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT		08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT

V504	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT		08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V505	08-1274	DIO BAS40-04 40V 200mA uni SOT23 SMT		08-1274	DIO BAS40-04 40V 200mA uni SOT23 SMT
V506	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT		08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V507	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT		08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V508	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT		08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V509	08-1274	DIO BAS40-04 40V 200mA uni SOT23 SMT		08-1274	DIO BAS40-04 40V 200mA uni SOT23 SMT
V510	n.b.	nicht bestückt		n.b.	nicht bestückt
V511	08-1618	DIO MBRA340T3 40V 1,5A uni SMA SMT		08-1618	DIO MBRA340T3 40V 1,5A uni SMA SMT
V512	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT		08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V513	08-1434	T BSP296 N-Kanal 100V 1A SOT223 SMT		08-1434	T BSP296 N-Kanal 100V 1A SOT223 SMT
V514	08-4149	DIOZ TZMC39GS08 39V 2,5mA Minimelf SMT		08-4149	DIOZ TZMC39GS08 39V 2,5mA Minimelf SMT
V515	n.b.	nicht bestückt		n.b.	nicht bestückt
V516	n.b.	nicht bestückt		n.b.	nicht bestückt
V517	n.b.	nicht bestückt		n.b.	nicht bestückt
V518	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT		08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V600	08-0621-3	DIO BAV170 60V 125mA uni SOT23 SMT		08-0621-3	DIO BAV170 60V 125mA uni SOT23 SMT
V700	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT		08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V701	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT		08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V702	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT		08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V703	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V704	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT		08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V705	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT		08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V706	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT		08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V707	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V708	n.b.	nicht bestückt		n.b.	nicht bestückt
V709	n.b.	nicht bestückt		n.b.	nicht bestückt
V714	n.b.	nicht bestückt		n.b.	nicht bestückt
V900	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT		08-1152	T BCX71H PNP 45V 100mA SOT23 SMT
V901	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V902	08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT		08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT
V903	08-4505	DIOZ BZV55C6V8 6,8V 250mA Minimelf SMT		08-4505	DIOZ BZV55C6V8 6,8V 250mA Minimelf SMT
V904	08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT		08-0749	DIOZ TZMC12 12V 39mA Minimelf SMT
V905	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V906	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT		08-1152	T BCX71H PNP 45V 100mA SOT23 SMT

V907	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V908	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V909	08-8479	IRLED SFH 4059 1-fach 860nm 1,6x3,2x1,8mm SMT A		08-8479	IRLED SFH 4059 1-fach 860nm 1,6x3,2x1,8mm SMT A
V910	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT		08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V911	08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT		08-1107	DIO LL4150GS08 50V 600mA uni Minimelf SMT
V912	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT		08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V913	08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT		08-0275	T BSS84 P-Kanal 60V 130mA SOT23 SMT
V914	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V1000	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT		08-1152	T BCX71H PNP 45V 100mA SOT23 SMT
V1001	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V1002	08-1507	DIO BAV199 75V 160mA uni SOT23 SMT		08-1507	DIO BAV199 75V 160mA uni SOT23 SMT
V1003	08-0844	DIO P6SMBJ40CA 40V 9,3A bi SMB SMT		08-0844	DIO P6SMBJ40CA 40V 9,3A bi SMB SMT
V1004	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT		08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V1005	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V1006	08-1152	T BCX71H PNP 45V 100mA SOT23 SMT		08-1152	T BCX71H PNP 45V 100mA SOT23 SMT
V1007	n.b.	nicht bestückt		n.b.	nicht bestückt
V1100	08-0593	T BC807-40 PNP 45V 500mA SOT23 SMT		08-0593	T BC807-40 PNP 45V 500mA SOT23 SMT
V1101	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT		08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V1102	08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT		08-0503	T BSS123 N-Kanal 100V 170mA SOT23 SMT
V1200	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT		08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT
V1202	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT		08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT
V1204	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V1212	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT		08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT
V1214	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V1216	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V1318	n.b.	nicht bestückt		n.b.	nicht bestückt
V1319	n.b.	nicht bestückt		n.b.	nicht bestückt
V1320	n.b.	nicht bestückt		n.b.	nicht bestückt
V1200_1	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT		08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT
V1200_2	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT		08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT
V1200_3	08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT		08-8481	DIO SMCJ300CA 300V 3,1A bi DO214AB SMT
V1202_1	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT		08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT
V1202_2	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT		08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT

V1202_3	08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT		08-5105	DIO SMAJ33A/11 33V 7,5A uni DO214AC SMT
V1204_1	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V1204_2	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V1204_3	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V1212_1	08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT		08-1120	DIO BAS40-05 40V 120mA uni SOT23 SMT
V1214_1	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V1216_1	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V1318_1	n.b.	nicht bestückt		n.b.	nicht bestückt
V1318_2	n.b.	nicht bestückt		n.b.	nicht bestückt
V1318_3	n.b.	nicht bestückt		n.b.	nicht bestückt
V1319_1	n.b.	nicht bestückt		n.b.	nicht bestückt
V1319_2	n.b.	nicht bestückt		n.b.	nicht bestückt
V1319_3	n.b.	nicht bestückt		n.b.	nicht bestückt
V1320_1	n.b.	nicht bestückt		n.b.	nicht bestückt
V1320_2	n.b.	nicht bestückt		n.b.	nicht bestückt
V1320_3	n.b.	nicht bestückt		n.b.	nicht bestückt
V400_1	08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT		08-1108-1	GL MB4S 280V 500mA 4,9x3x4,2mm SMT
V401_1	08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT		08-0180	T BC817-40 NPN 45V 0,5A SOT23 SMT
V402_1	08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT		08-1843-1	DIO SMAJ30A 30V 8,3A uni SMA SMT
V403_1	08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT		08-4557-1	T 2N7002K N-Kanal 60V 300mA SOT23 SMT
V408_1	08-2189	DIO S1M 1kV 1A uni DO214AC SMT		08-2189	DIO S1M 1kV 1A uni DO214AC SMT
X100	n.b.	nicht bestückt		n.b.	nicht bestückt
X101	03-0088-9	SL 2p 180° RM2,54 THT		03-0088-9	SL 2p 180° RM2,54 THT
X102	n.b.	nicht bestückt		n.b.	nicht bestückt
X200	03-2780	BL 2x9p 180° Buchsenleiste 2,54mm pitch SMT		03-2780	BL 2x9p 180° Buchsenleiste 2,54mm pitch SMT
X201	n.b.	nicht bestückt		n.b.	nicht bestückt
X202	n.b.	nicht bestückt		n.b.	nicht bestückt
X400	24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT		24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT
X401	24-1999	KL 2x3p 90° Schraubklemme Blau RM5,08 THT		24-1999	KL 2x3p 90° Schraubklemme Blau RM5,08 THT
X402	n.b.	nicht bestückt		n.b.	nicht bestückt
X500	05-4686	Befestigungselement Feder 5x3x4mm SMT		05-4686	Befestigungselement Feder 5x3x4mm SMT
X501	05-4686	Befestigungselement Feder 5x3x4mm SMT		05-4686	Befestigungselement Feder 5x3x4mm SMT
X502	05-4686	Befestigungselement Feder 5x3x4mm SMT		05-4686	Befestigungselement Feder 5x3x4mm SMT
X600	n.b.	nicht bestückt		n.b.	nicht bestückt
X800	n.b.	nicht bestückt		n.b.	nicht bestückt
X801	n.b.	nicht bestückt		n.b.	nicht bestückt
X900	24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT		24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT
X901	n.b.	nicht bestückt		n.b.	nicht bestückt
X1101	03-2680	SL 6p 180° RM2,54 THT		03-2680	SL 6p 180° RM2,54 THT
X1103	03-0451-2	SL 8p 180° RM2,54 THT		03-0451-2	SL 8p 180° RM2,54 THT

X1200	24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT		24-2000	KL 2x3p 90° Schraubklemme Blau RM5,08 THT

BOM variants of main PCB - MCS301 V1.5

Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
A300	05-1472	05-1472 - LCD-Display Adcom-FT1612009P00_Yeebo-FL9083PA1	LCD_Display	LCD-Display - Yeebo-FL9083PA1_Adcom FT1612009P00	x	x	x	x	x
B700	11-7114-1	11-7114-1 - AH1809-WG-7	AH1809-WG-7	SOT23-3L	x	x	x	x	x
C100	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C101	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C102	02-1904-3	02-1904-3 - SMD Capacitor 0402 10pF 50V NP0	10pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C103	02-1904-3	02-1904-3 - SMD Capacitor 0402 10pF 50V NP0	10pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C104	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C105	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C106	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C108	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C109	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C110	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C111	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C112	02-4679	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V	CAP_0805_IPC_B	x	x	x	x	x
C113	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C114	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C115	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C116	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C117	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C200	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C200_1	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C200_2	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C201	02-4679	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V	CAP_0805_IPC_B	x	x	x	x	x
C202	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C202_1	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C202_2	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C203	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C204	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C205	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C206	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C207	02-0279	02-0279 - SMD Capacitor 1206 1nF 50V C0G	1nF/50V	CAP_1206_IPC_B	x	x	x	x	x
C208	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C212	02-4679	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V	CAP_0805_IPC_B	x	x	x	x	x
C213	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C215	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C215_1	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C215_2	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C216	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C216_1	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C216_2	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C217	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C218	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x

BOM variants of main PCB - MCS301 V1.5

Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
C221	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C222	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C225	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C226	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C300	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	
C301	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	
C302	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	
C303	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	
C304	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C305	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C306	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C307	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C308	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C309	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C400	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C401	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C402	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C403	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C408	02-3981	02-3981 - SMD Capacitor 0402 1µF 16V X5R	1µF/16V	CAP_0402_IPC_B	x	x	x	x	x
C408_1	02-3981	02-3981 - SMD Capacitor 0402 1µF 16V X5R	1µF/16V	CAP_0402_IPC_B	x	x	x	x	x
C409	02-3981	02-3981 - SMD Capacitor 0402 1µF 16V X5R	1µF/16V	CAP_0402_IPC_B	x	x	x	x	x
C409_1	02-3981	02-3981 - SMD Capacitor 0402 1µF 16V X5R	1µF/16V	CAP_0402_IPC_B	x	x	x	x	x
C500	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C501	32-6002	32-6002 - Nichicon ULD1A221MED1TD	220µF/10V	ECAP_CUP_D6.3_RM2.5_H11	x	x	x	x	x
C502	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x			x	x
C503	32-0441	32-0441 - Nichicon UHE1H151MPD	150µF/50V	ECAP_CUP_D10_RM5_H12.5	x			x	x
C504	02-1883	02-1883 - SMD Capacitor 0402 220pF 50V X7R	220pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C505	02-4850	02-4850 - SMD Capacitor 1206 10µF 50V X5R	10µF/50V	CAP_1206_IPC_B - mod_1.2mm	x	x	x	x	x
C506	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C507	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C508	32-6002	32-6002 - Nichicon ULD1A221MED1TD	220µF/10V	ECAP_CUP_D6.3_RM2.5_H11	x	x	x	x	x
C509	02-2247	02-2247 - THT Gold Capacitor D10.5xH11.5 RM5	220µF/5.5V	CAP_CUP_D10.50_RM5.00_GOLDCAP_STEHEND	x	x	x	x	x
C510	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C511	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C512	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C513	02-4850	02-4850 - SMD Capacitor 1206 10µF 50V X5R	10µF/50V	CAP_1206_IPC_B - mod_1.2mm	x	x	x	x	x
C514	02-4679	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V	CAP_0805_IPC_B	x	x	x	x	x
C515	02-4679	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V	CAP_0805_IPC_B				x	
C516	32-0441	32-0441 - Nichicon UHE1H151MPD	150µF/50V	ECAP_CUP_D10_RM5_H12.5				x	
C517	02-4850	02-4850 - SMD Capacitor 1206 10µF 50V X5R	10µF/50V	CAP_1206_IPC_B - mod_1.2mm	x	x	x	x	x
C518	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C519	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402	x	x	x	x	x

BOM variants of main PCB - MCS301 V1.5

Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
C520	02-2870	02-2870 - SMD Capacitor 1206 1nF 500V X7R	1nF/500V	CAP_1206_IPC_B	x		x	x	x
C521	02-4118	02-4118 - THT Capacitor Disc RM9.5 2.2nF 500V Y1	2.2nF/500V/Y1	CAP_DISC_RM9.5	x	x	x	x	x
C522	02-4118	02-4118 - THT Capacitor Disc RM9.5 2.2nF 500V Y1	2.2nF/500V/Y1	CAP_DISC_RM9.5	x	x	x	x	x
C523	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C524	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402	x	x	x	x	x
C525	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402	x	x	x	x	x
C526	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402				x	
C527	32-0441	32-0441 - Nichicon UHE1H151MPD	150µF/50V	ECAP_CUP_D10_RM5_H12.5	x	x	x	x	x
C528	02-4679	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V	CAP_0805_IPC_B	x	x	x	x	x
C529	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C530	32-0441	32-0441 - Nichicon UHE1H151MPD	150µF/50V	ECAP_CUP_D10_RM5_H12.5	x	x	x	x	x
C531	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C532	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C533	02-4850	02-4850 - SMD Capacitor 1206 10µF 50V X5R	10µF/50V	CAP_1206_IPC_B - mod_1.2mm	x	x	x	x	x
C534	32-0441	32-0441 - Nichicon UHE1H151MPD	150µF/50V	ECAP_CUP_D10_RM5_H12.5	x	x	x	x	x
C536	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402				x	
C537	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402				x	
C600	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C601	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C602	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C603	02-4679	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V	CAP_0805_IPC_B	x	x	x	x	x
C604	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C605	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C606	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C607	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C700	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C701	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402	x	x	x	x	x
C702	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C703	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402	x	x	x	x	x
C704	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C705	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402	x	x	x	x	x
C706	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402				x	
C707	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C708	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C710	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V	CAP_0402	x	x	x	x	x
C800	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B				x	x
C801	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B				x	x
C802	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	x
C803	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	x
C804	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B			x	x	
C805	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B			x	x	
C806	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B			x	x	

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Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
C807	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B			x	x	
C808	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B			x	x	
C809	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B				x	x
C810	02-4850	02-4850 - SMD Capacitor 1206 10µF 50V X5R	10µF/50V	CAP_1206_IPC_B - mod_1.2mm				x	x
C811	02-4850	02-4850 - SMD Capacitor 1206 10µF 50V X5R	10µF/50V	CAP_1206_IPC_B - mod_1.2mm				x	x
C812	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	x
C813	02-4850	02-4850 - SMD Capacitor 1206 10µF 50V X5R	10µF/50V	CAP_1206_IPC_B - mod_1.2mm				x	x
C814	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C815	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C816	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C817	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	
C818	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C819	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C820	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C821	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C822	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C823	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C824	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C825	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C826	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C827	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	
C828	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B				x	x
C829	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B				x	x
C900	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C901	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C902	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C903	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C904	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C905	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C906	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C907	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C908	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C909	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	
C910	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B				x	
C911	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C912	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C913	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C914	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C915	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	x
C916	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C917	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C918	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x

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Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
C919	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C920	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	
C921	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	
C922	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	
C923	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B				x	
C924	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C925	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B		x		x	
C926	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C927	02-2308-1	02-2308-1 - SMD Capacitor 0402 33pF 50V NP0	33pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C928	02-2200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	10nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1000	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x		x	x	x
C1001	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x		x	x	x
C1002	02-2214	02-2214 - SMD Capacitor 0603 1µF 25V X5R	1µF/25V	CAP_0603_IPC_B	x		x	x	x
C1003	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x		x	x	x
C1004	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x		x	x	x
C1005	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x		x	x	x
C1006	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x		x	x	x
C1007	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x		x	x	x
C1100	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1101	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1102	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1103	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B				x	
C1200	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1200_1	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1200_2	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1200_3	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1201	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1202	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1202_1	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1202_2	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1202_3	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1203	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V	CAP_0402_IPC_B	x	x	x	x	x
C1300	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	
C1302	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V	CAP_0402_IPC_B				x	
D100	10-3880	10-3880_IS25LP032D- Serial Flash SO8_150mil	IS25LP032D-JNLE	SO8M	x	x	x	x	x
D101	07-1683	07-1683 - STM32F051R8T6 QFP64	STM32F051R8T6	LQFP50P1200X1200X160-64N	x	x	x	x	x
D301	06-3409	06-3409 - Universal LCD Driver, TSSOP-56	PCF8545	TSSOP56_14.0x6.1_PITCH0.5_TSSOP50P810X120-56N	x	x	x	x	x
D302	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE	x	x	x	x	x
D402_1	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE	x	x	x	x	x
D500	06-0016	06-0016 - Schmitt-Trigger Inverter 5V 0-5V SO14	74HC14	SOIC127P600X175-14N	x	x	x	x	x
D501	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE	x	x	x	x	x
D600	07-3929_1	07-3929_1 - STM32F401CEU6, QFN48	STM32F401CEU6	QFN50P700X700X60_HS-49N	x	x	x	x	x

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Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
D800	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE				x	x
D801	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE				x	x
D802	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE				x	x
D803	11-7210-1	11-7210-1 - Optokoppler SMD6 1fach opt.7	CNY17	DIP6_SMD_OPTO_PITCH2.54_H=3.7				x	x
D900	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE	x	x	x	x	x
D901	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE	x	x	x	x	x
D902	06-0351	06-0351 - Differential Bus Transceivers	SN75176BDR	SO8_127P600X176-8N	x	x	x	x	x
D903	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE	x	x	x	x	x
D904	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE				x	
D905	07-3716	07-3716 - SL3S4011	SL3S4011	TQFN8_0.5_NXP				x	
D1000	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE	x		x	x	x
D1003	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F	SMD4_PITCH2.54_WIDE	x		x	x	x
E500	05-2441-1	05-2441-1 - Knopfzelle CR2032 MFR 3V 225mAh Lithium	CR2032	BATTERIE_THT_STEHEND_KOMBI_CR1632/2032	x	x	x	x	x
G100	09-2025	09-2025 - Quarz 32.768kHz	32.768kHz	QUARTZ_7x1.5MM_SMT	x	x	x	x	x
G200	09-2687	09-2687 - Quarz HC49SMD	16.384MHz	HC49-SMD	x	x	x	x	x
G500	05-9055_1	05-9055_1 - Batterie ER 1/2 AA PCBD 10.0 N	Batterie 1/2 AA					x	
K1200	04-5187	04-5187 - THT Relais 12V	HFE7/12-1HSTG-L2	RELAIS_Hongfa_1FormA_2Coils	x	x	x	x	x
K1212	04-xxxx	04-xxxx - THT Relais 12V	HF163	RELAIS_Combi_HFE_FJI-JE_Metcom_MCS301_V2.0				x	
L200	04-5001	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476630	1000µH/30mA	WUERTH_WE-GF_4.5x3.2x3.2	x	x	x	x	x
L500	04-1793	04-1793 - SPEICHERDROSSEL WE-PD2	150µH/0.71A	WUERTH_WE-PD2_7.0x7.8mm	x	x	x	x	x
L502	04-2339	04-2339 - Power Inductor WE-PD2 SMD	220µH/0.42A	WUERTH_WE-PD2/5848				x	
L503	04-0797	04-0797 - Stromkomp. Drossel WE-SL2, 9.2x6mm.	6.5mH/0.4A	WUERTH_WE-SL2_OHNE_PIN1_KENNUNG	x	x	x	x	x
L504	04-2339	04-2339 - Power Inductor WE-PD2 SMD	220µH/0.42A	WUERTH_WE-PD2/5848				x	
N500	11-8546	11-8546 - DC/DC converter control circuit SO8	MC34063EBD	SO8_127P600X176-8N	x	x	x	x	x
N800	11-4089	11-4089 - True +3.0V to +5.5V RS-232 Transceiver, TSSOP16	SP3232ECY	TSSOP16_TSOP65P640X120-16N			x	x	
R100	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R101	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R102	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B	x	x	x	x	x
R103	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x	x	x	x
R104	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B	x	x	x	x	x
R105	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R107	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B	x	x	x	x	x
R108	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B				x	
R109	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R110	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R111	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R112	01-1908	01-1908 - SMD Resistor 0402 0.063W 1%	10R/200ppm	RES_0402_IPC_B	x	x	x	x	x
R200	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R200_1	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R200_2	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R200_4	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R201	01-1186	01-1186 - SMD Resistor MiniMelf 0.25W 1%	15R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x

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Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
R201_1	01-1186	01-1186 - SMD Resistor MiniMelf 0.25W 1%	15R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R201_2	01-1186	01-1186 - SMD Resistor MiniMelf 0.25W 1%	15R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R202	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R202_1	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R202_2	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R203	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x	x	x	x
R204	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R205	01-1186	01-1186 - SMD Resistor MiniMelf 0.25W 1%	15R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R205_1	01-1186	01-1186 - SMD Resistor MiniMelf 0.25W 1%	15R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R205_2	01-1186	01-1186 - SMD Resistor MiniMelf 0.25W 1%	15R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R206	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R206_1	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R206_2	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R206_4	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R207	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B				x	
R208	01-1908	01-1908 - SMD Resistor 0402 0.063W 1%	10R/200ppm	RES_0402_IPC_B	x	x	x	x	x
R209	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B				x	
R210	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B				x	
R211	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R212	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R222	01-0663_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm	RES_MiniMELF_3514N - ISO2mm	x	x	x	x	x
R222_1	01-0663_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm	RES_MiniMELF_3514N - ISO2mm	x	x	x	x	x
R222_2	01-0663_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm	RES_MiniMELF_3514N - ISO2mm	x	x	x	x	x
R224	01-0675	01-0675 - SMD Resistor MiniMelf 0.25W 1%	220R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R224_1	01-0675	01-0675 - SMD Resistor MiniMelf 0.25W 1%	220R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R224_2	01-0675	01-0675 - SMD Resistor MiniMelf 0.25W 1%	220R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R225	01-0675	01-0675 - SMD Resistor MiniMelf 0.25W 1%	220R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R225_1	01-0675	01-0675 - SMD Resistor MiniMelf 0.25W 1%	220R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R225_2	01-0675	01-0675 - SMD Resistor MiniMelf 0.25W 1%	220R/50ppm	RES_MiniMELF_3514N	x	x	x	x	x
R300	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R301	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R302	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R303	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R304	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R305	01-0947	01-0947 - SMD Resistor 0603 0.1W 1%	22R	RES_0603_IPC_B	x	x	x	x	x
R306	01-0898	01-0898 - SMD Resistor 0603 0.1W 1%	1M	RES_0603_IPC_B	x	x	x	x	x
R307	01-0947	01-0947 - SMD Resistor 0603 0.1W 1%	22R	RES_0603_IPC_B	x	x	x	x	x
R308	01-0947	01-0947 - SMD Resistor 0603 0.1W 1%	22R	RES_0603_IPC_B	x	x	x	x	x
R309	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R310	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B				x	
R311	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R400	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x

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Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
R401	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R402	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R403	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R404	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R405	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R406	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R407	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R408	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B	x	x	x	x	x
R408_1	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B	x	x	x	x	x
R409	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B	x	x	x	x	x
R409_1	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B	x	x	x	x	x
R410	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R410_1	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R411	xx-xxxx	xx-xxxx - SMD Resistor MiniMelf 0.25W 1%	22K	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R411_1	xx-xxxx	xx-xxxx - SMD Resistor MiniMelf 0.25W 1%	22K	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R412	xx-xxxx	xx-xxxx - SMD Resistor MiniMelf 0.25W 1%	22K	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R412_1	xx-xxxx	xx-xxxx - SMD Resistor MiniMelf 0.25W 1%	22K	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R413	xx-xxxx	xx-xxxx - SMD Resistor MiniMelf 0.25W 1%	22K	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R413_1	xx-xxxx	xx-xxxx - SMD Resistor MiniMelf 0.25W 1%	22K	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R414	xx-xxxx	xx-xxxx - SMD Resistor MiniMelf 0.25W 1%	22K	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R414_1	xx-xxxx	xx-xxxx - SMD Resistor MiniMelf 0.25W 1%	22K	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R415	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x	x	x	x
R415_1	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x	x	x	x
R416	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R417	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R418	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R419	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R420	01-xxxx	01-xxxx - SMD Resistor 1206 0.25W 1%	36R	RES_1206_IPC_B				x	
R421	01-xxxx	01-xxxx - SMD Resistor 1206 0.25W 1%	36R	RES_1206_IPC_B				x	
R422	01-xxxx	01-xxxx - SMD Resistor 1206 0.25W 1%	36R	RES_1206_IPC_B				x	
R423	01-xxxx	01-xxxx - SMD Resistor 1206 0.25W 1%	36R	RES_1206_IPC_B				x	
R424	01-xxxx	01-xxxx - SMD Resistor 1206 0.25W 1%	36R	RES_1206_IPC_B				x	
R425	01-xxxx	01-xxxx - SMD Resistor 1206 0.25W 1%	36R	RES_1206_IPC_B				x	
R426	01-xxxx	01-xxxx - SMD Resistor 1206 0.25W 1%	36R	RES_1206_IPC_B				x	
R427	01-xxxx	01-xxxx - SMD Resistor 1206 0.25W 1%	36R	RES_1206_IPC_B				x	
R500	01-6750	01-6750 - SMD Resistor 1206 0.5W 1%	0.24R	RES_1206_IPC_B	x	x	x	x	x
R501	01-1745	01-1745 - SMD Resistor 0603 0.1W 1%	24k	RES_0603_IPC_B	x	x	x	x	x
R502	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x	x	x	x
R503	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R504	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B	x	x	x	x	x
R505	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B	x	x	x	x	x
R506	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x

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Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
R507	01-0960	01-0960 - SMD Resistor 0603 0.1W 1%	100k	RES_0603_IPC_B	x	x	x	x	x
R508	01-0885	01-0885 - SMD Resistor 0603 0.1W 1%	22k	RES_0603_IPC_B	x	x	x	x	x
R509	01-0489	01-0489 - SMD Resistor 0603 0.1W 1%	33k	RES_0603_IPC_B	x	x	x	x	x
R510	01-1309	01-1309 - SMD Resistor 0603 0.1W 1%	11k	RES_0603_IPC_B	x		x	x	
R511	01-0080	01-0080 - SMD Resistor 0603 0.1W 5%	0R	RES_0603_IPC_B	x	x	x	x	x
R512	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x		x	x
R513	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B				x	
R514	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R515	01-0620	01-0620 - SMD Resistor 0603 0.1W 1%	100R	RES_0603_IPC_B	x			x	x
R516	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B				x	
R517	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R518	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R519	01-3661	01-3661 - SMD Resistor 0603 0.063W 1%	4.7M	RES_0603_IPC_B	x	x	x	x	x
R520	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R521	01-0620	01-0620 - SMD Resistor 0603 0.1W 1%	100R	RES_0603_IPC_B	x	x	x	x	x
R522	01-6750	01-6750 - SMD Resistor 1206 0.5W 1%	0.24R	RES_1206_IPC_B	x	x	x	x	x
R523	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R524	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R525	01-3661	01-3661 - SMD Resistor 0603 0.063W 1%	4.7M	RES_0603_IPC_B	x	x	x	x	x
R526	01-0620	01-0620 - SMD Resistor 0603 0.1W 1%	100R	RES_0603_IPC_B		x	x	x	
R527	01-0080	01-0080 - SMD Resistor 0603 0.1W 5%	0R	RES_0603_IPC_B	x	x	x	x	x
R529	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B				x	
R530	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B				x	
R531	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B				x	
R532	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B				x	
R600	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B	x	x	x	x	x
R601	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R700	01-3661	01-3661 - SMD Resistor 0603 0.063W 1%	4.7M	RES_0603_IPC_B	x	x	x	x	x
R701	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R702	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R703	01-3661	01-3661 - SMD Resistor 0603 0.063W 1%	4.7M	RES_0603_IPC_B	x	x	x	x	x
R704	01-3661	01-3661 - SMD Resistor 0603 0.063W 1%	4.7M	RES_0603_IPC_B	x	x	x	x	x
R705	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R706	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R707	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B				x	
R708	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R709	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x	x	x	x	x
R710	01-3661	01-3661 - SMD Resistor 0603 0.063W 1%	4.7M	RES_0603_IPC_B	x	x	x	x	x
R800	01-0648	01-0648 - SMD Resistor 0603 0.1W 1%	330R	RES_0603_IPC_B				x	
R801	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B				x	x
R802	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B				x	x
R803	01-0215	01-0215 - SMD Resistor 1206 0.25W 1%	220R	RES_1206_IPC_B				x	x

BOM variants of main PCB - MCS301 V1.5

Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
R804	01-0215	01-0215 - SMD Resistor 1206 0.25W 1%	220R	RES_1206_IPC_B				x	x
R805	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B	x	x	x	x	x
R806	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B	x	x	x	x	x
R807	01-7601	01-7601 - SMD Resistor 0603 1% 0.1W 300ppm	0.2R	RES_0603_IPC_B				x	x
R808	01-1337	01-1337 - SMD Resistor 0603 0.063W 1%	2.2R	RES_0603_IPC_B				x	x
R809	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B				x	
R810	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B				x	x
R811	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B				x	x
R812	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B				x	x
R813	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B				x	
R814	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B				x	
R815	01-0215	01-0215 - SMD Resistor 1206 0.25W 1%	220R	RES_1206_IPC_B				x	x
R816	01-0481	01-0481 - SMD Resistor 0603 0.063W 5%	1k	RES_0603_IPC_B				x	x
R817	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	x
R818	01-0481	01-0481 - SMD Resistor 0603 0.063W 5%	1k	RES_0603_IPC_B				x	x
R819	01-0215	01-0215 - SMD Resistor 1206 0.25W 1%	220R	RES_1206_IPC_B				x	x
R820	01-1337	01-1337 - SMD Resistor 0603 0.063W 1%	2.2R	RES_0603_IPC_B				x	x
R821	01-0215	01-0215 - SMD Resistor 1206 0.25W 1%	220R	RES_1206_IPC_B				x	
R822	01-0215	01-0215 - SMD Resistor 1206 0.25W 1%	220R	RES_1206_IPC_B				x	
R823	01-1651	01-1651 - SMD Resistor 0603 0.1W 1%	12R	RES_0603_IPC_B				x	
R824	01-3207	01-3207 - SMD Resistor 0402 0.063W 1%	22R	RES_0402_IPC_B				x	x
R825	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B				x	x
R826	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B				x	x
R827	01-1908	01-1908 - SMD Resistor 0402 0.063W 1%	10R/200ppm	RES_0402_IPC_B				x	x
R850	01-0215	01-0215 - SMD Resistor 1206 0.25W 1%	220R	RES_1206_IPC_B				x	
R900	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R901	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B	x	x	x	x	x
R902	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R903	01-1908	01-1908 - SMD Resistor 0402 0.063W 1%	10R/200ppm	RES_0402_IPC_B	x	x	x	x	x
R904	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R905	01-1908	01-1908 - SMD Resistor 0402 0.063W 1%	10R/200ppm	RES_0402_IPC_B	x	x	x	x	x
R906	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x	x	x	x
R907	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R908	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x	x	x	x
R909	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B	x	x	x	x	x
R910	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R911	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B	x	x	x	x	x
R912	01-3517-1	01-3517-1 - SMD Resistor 0402 0.063W 1%	1.8k	RES_0402_IPC_B	x	x	x	x	x
R913	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R	RES_0402_IPC_B	x			x	x
R914	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B				x	
R915	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B				x	
R916	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x

BOM variants of main PCB - MCS301 V1.5

Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
R917	01-0884	01-0884 - SMD Resistor 0603 0.1W 1%	560R	RES_0603_IPC_B				x	
R918	01-0884	01-0884 - SMD Resistor 0603 0.1W 1%	560R	RES_0603_IPC_B				x	
R919	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B				x	
R920	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R921	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B	x	x	x	x	x
R922	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B	x	x	x	x	x
R923	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R924	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R925	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B	x	x	x	x	x
R926	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B	x	x	x	x	x
R927	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B	x	x	x	x	
R928	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B		x		x	x
R929	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B	x			x	x
R930	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R931	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B		x	x	x	
R932	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B		x	x	x	
R933	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R1000	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x		x	x	x
R1001	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B	x		x	x	x
R1002	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R1003	01-1651	01-1651 - SMD Resistor 0603 0.1W 1%	12R	RES_0603_IPC_B	x		x	x	x
R1004	01-0820	01-0820 - SMD Resistor 0603 0.1W 1%	220R	RES_0603_IPC_B	x		x	x	x
R1005	01-4127	01-4127 - SMD Resistor 24k 0402 0.063W 1%	24k	RES_0402_IPC_B	x		x	x	x
R1006	01-0489	01-0489 - SMD Resistor 0603 0.1W 1%	33k	RES_0603_IPC_B	x		x	x	x
R1007	01-0104	01-0104 - SMD Resistor 0805 0.125W 1%	10k	RES_0805_IPC_B	x		x	x	x
R1008	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B	x		x	x	x
R1009	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R1010	01-1995	01-1995 - SMD Resistor 0402 0.063W 1%	47k	RES_0402_IPC_B	x		x	x	x
R1011	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x		x	x	x
R1012	01-0489	01-0489 - SMD Resistor 0603 0.1W 1%	33k	RES_0603_IPC_B	x		x	x	x
R1013	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x		x	x	x
R1014	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x		x	x	x
R1015	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x		x	x	x
R1016	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x		x	x	x
R1017	01-0123	01-0123 - SMD Resistor 1206 0.25W 1%	4.7k	RES_1206_IPC_B	x		x	x	x
R1018	01-0123	01-0123 - SMD Resistor 1206 0.25W 1%	4.7k	RES_1206_IPC_B				x	
R1019	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B	x		x	x	x
R1020	01-0123	01-0123 - SMD Resistor 1206 0.25W 1%	4.7k	RES_1206_IPC_B	x		x	x	x
R1021	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B	x		x	x	x
R1022	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B				x	
R1023	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k	RES_0402_IPC_B				x	
R1025	01-1906	01-1906 - SMD Resistor 0402 0.063W 1%	100R	RES_0402_IPC_B				x	

BOM variants of main PCB - MCS301 V1.5

Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
R1031	01-1995	01-1995 - SMD Resistor 0402 0.063W 1%	47k	RES_0402_IPC_B	x		x	x	x
R1100	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k	RES_0402_IPC_B	x	x	x	x	x
R1101	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R1102	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k	RES_0402_IPC_B	x	x	x	x	x
R1103	01-0663	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm	SOD80_MLL34_MiniMelf_Res	x	x	x	x	x
R1200	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R1200_1	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R1200_2	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R1200_3	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R1201	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R1202	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R1202_1	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R1202_2	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R1202_3	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B	x	x	x	x	x
R1204	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R1204_1	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R1204_2	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R1204_3	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R1205	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R1206	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R1207	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B				x	
R1212	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x	x	x
R1214	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M	RES_0402_IPC_B	x	x	x		x
R1300	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B					
R1302	01-0160	01-0160 - SMD Resistor 1206 0.25W 5%	0R	RES_1206_IPC_B					
R1304	01-0596	01-0596 - SMD Resistor 0603 0.1W 1%	180R	RES_0603_IPC_B					
S100	05-3455	05-3455 - Tact-Switch 5x5mm	Tact-Switch	SWITCH_TACT_SMT_KSC_GPads_2Pins - Pitch 4mm	x	x	x		x
S101	05-3455	05-3455 - Tact-Switch 5x5mm	Tact-Switch	SWITCH_TACT_SMT_KSC_GPads_2Pins - Pitch 4mm	x	x	x		x
S102	05-3455	05-3455 - Tact-Switch 5x5mm	Tact-Switch	SWITCH_TACT_SMT_KSC_GPads_2Pins - Pitch 4mm	x	x	x		x
S700	05-8332	05-8332 - Microswitch SPDT DM1-01P-30-3	DM1-01P-30-3	Multicomp_DM1-01P-30-3	x	x	x		x
S701	05-8332	05-8332 - Microswitch SPDT DM1-01P-30-3	DM1-01P-30-3	Multicomp_DM1-01P-30-3	x	x	x		x
T500	04-6570	04-6570 _WUERTH_750316702r01	750316702r01	WUERTH_750316702	x	x	x		x
V200	08-8742	08-8742_Phototransistor_1fach_SMT	AA3528P3S	PLCC2_PHOTO_TRANSISTOR	x	x	x		x
TP1	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP2	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP100	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP101	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP102	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP103	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP104	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP200	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP201	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x

BOM variants of main PCB - MCS301 V1.5

Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
TP202	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP203	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP204	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP205	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP206	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP207	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP208	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP501	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP502	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP503	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP504	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP505	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP506	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP507	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP508	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP509	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP510	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP511	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP512	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP700	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP701	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP702	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP703	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP704	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP705	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP900	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP902	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP1100	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP1101	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP1102	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP1208	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
TP1209	99-0026	99-0026- Testpunkt 0.8mm rund	Testpunkt 0.8mm	Test Point 0.8mm	x	x	x		x
U400	04-6347	04-6347 - Solid-State Relay SMD6 1fach 5kV	VOR1142B6	DIP6_SMD_OPTO_PITCH2.54_H=3.7	x	x	x		x
U401	04-6347	04-6347 - Solid-State Relay SMD6 1fach 5kV	VOR1142B6	DIP6_SMD_OPTO_PITCH2.54_H=3.7	x	x	x		x
U1200	04-6347	04-6347 - Solid-State Relay SMD6 1fach 5kV	VOR1142B6	DIP6_SMD_OPTO_PITCH2.54_H=3.7	x	x	x		x
U1200_1	04-6347	04-6347 - Solid-State Relay SMD6 1fach 5kV	VOR1142B6	DIP6_SMD_OPTO_PITCH2.54_H=3.7	x	x	x		x
U1200_2	04-6347	04-6347 - Solid-State Relay SMD6 1fach 5kV	VOR1142B6	DIP6_SMD_OPTO_PITCH2.54_H=3.7	x	x	x		x
U1200_3	04-6347	04-6347 - Solid-State Relay SMD6 1fach 5kV	VOR1142B6	DIP6_SMD_OPTO_PITCH2.54_H=3.7	x	x	x		x
U1300	04-6347	04-6347 - Solid-State Relay SMD6 1fach 5kV	VOR1142B6	DIP6_SMD_OPTO_PITCH2.54_H=3.7					
V100	08-1485	08-1485 - LED_Rot 1206 30mA	LED_Rot	LED_1206	x	x	x		x
V101	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L	x	x	x		x
V102	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L					

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Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
V103	08-1485	08-1485 - LED_Rot 1206 30mA	LED_Rot	LED_1206	x	x	x		x
V200	07-3930	07-3930 - Atmel Poly-Phase Energy Metering IC, TQFP48	M90E36A	QFP48__PI0.50_EL7.00x7.00	x	x	x		x
V300	08-0180	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40	SOT23-3L					
V301	08-5723	08-5723 - SMD-LED, weiss, 0603	LED white	LED_0603	x	x	x		x
V302	08-5723	08-5723 - SMD-LED, weiss, 0603	LED white	LED_0603	x	x	x		x
V303	08-5723	08-5723 - SMD-LED, weiss, 0603	LED white	LED_0603	x	x	x		x
V304	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V400	08-8480	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA	SMA_DO-214AC - BIDIREKTIONAL					
V401	08-8480	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA	SMA_DO-214AC - BIDIREKTIONAL					
V402	08-5105	08-5105 - SMD TVS Diode, SMA	SMAJ33A	SMA_DO-214AC	x	x	x		x
V403	08-5105	08-5105 - SMD TVS Diode, SMA	SMAJ33A	SMA_DO-214AC	x	x	x		x
V404	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V405	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V406	08-8481	08-8481 - TVS Diode Bidirectional, 300V, 1500W, SMC	SMCJ300CA	SMC_DO-214AB_BIDIRECTIONAL	x	x	x		x
V407	08-8481	08-8481 - TVS Diode Bidirectional, 300V, 1500W, SMC	SMCJ300CA	SMC_DO-214AB_BIDIRECTIONAL	x	x	x		x
V408	08-2189	08-2189 - SMA Gleichrichter 1000V 1A	S1M	SMA_DO-214AC	x	x	x		x
V408_1	08-2189	08-2189 - SMA Gleichrichter 1000V 1A	S1M	SMA_DO-214AC	x	x	x		x
V500	08-1107	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150	SOD80_DO213AA_MLL34_MiniMelf	x	x	x		x
V501	08-0678-3	08-0678-3_Diode_SMT_MiniMelf_0.5A_200V_0.5W	BAV103	SOD80_DO213AA_MLL34_MiniMelf	x				x
V502	08-0842	08-0842 - ES1D SMA Gleichrichter 140V 1A	ES1D	SMA_DO-214AC	x	x	x		x
V503	08-1107	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150	SOD80_DO213AA_MLL34_MiniMelf	x	x	x		x
V504	08-0275	08-0275 - SIPMOS Small-Signal-Transistor	BSS84P	SOT23-3L	x	x	x		x
V505	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L	x	x	x		x
V506	08-1507	08-1507 - Low-leakage double diode 75V 0.140A SOT23 0.25W	BAV199	SOT23-3L	x	x	x		x
V507	08-1507	08-1507 - Low-leakage double diode 75V 0.140A SOT23 0.25W	BAV199	SOT23-3L	x	x	x		x
V508	08-1107	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150	SOD80_DO213AA_MLL34_MiniMelf	x	x	x		x
V509	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L	x	x	x		x
V510	08-0321	08-0321 - Zener Diode 30V SOT23-3	BZX84-B30	SOT23_SC88_SOT95P230X110-3N					
V511	08-0842	08-0842 - ES1D SMA Gleichrichter 140V 1A	ES1D	SMA_DO-214AC	x	x	x		x
V512	08-1107	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150	SOD80_DO213AA_MLL34_MiniMelf	x		x		
V513	08-1434	08-1434 - SIPMOS Small-Signal-Transistor N-Channel	BSP296H	SOT230P700X180-4N - 2,4 connected	x	x	x		x
V514	08-4149	08-4149 - Z-Diode39V MiniMELF	TZMC39GS08	MiniMELF_Diode	x				x
V515	08-7834	08-7834 - Z-Diode 5% 4.3V MiniMELF	BZV55C4V3	DIOMELF3515N_MiniMelf		x	x		
V516	08-1576-1	08-1576-1 - Z-Diode 5% 5.1V 250mA MiniMELF	Z5.1V	MiniMELF_Diode					
V517	08-4149	08-4149 - Z-Diode39V MiniMELF	TZMC39GS08	MiniMELF_Diode					
V518	08-1107	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150	SOD80_DO213AA_MLL34_MiniMelf	x	x	x		x
V519	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x	x	x		x
V520	08-0180	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40	SOT23-3L	x	x	x		x
V600	08-0621-3	08-0621-3 - Low-leakage double diode 75V 0.125A SOT23 0.25W	BAV170	SOT23-3L	x	x	x		x
V700	08-1507	08-1507 - Low-leakage double diode 75V 0.140A SOT23 0.25W	BAV199	SOT23-3L	x	x	x		x
V701	08-0275	08-0275 - SIPMOS Small-Signal-Transistor	BSS84P	SOT23-3L	x	x	x		x
V702	08-1507	08-1507 - Low-leakage double diode 75V 0.140A SOT23 0.25W	BAV199	SOT23-3L	x	x	x		x

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Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
V703	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x	x	x		x
V704	08-1507	08-1507 - Low-leakage double diode 75V 0.140A SOT23 0.25W	BAV199	SOT23-3L	x	x	x		x
V705	08-0275	08-0275 - SIPMOS Small-Signal-Transistor	BSS84P	SOT23-3L	x	x	x		x
V706	08-1507	08-1507 - Low-leakage double diode 75V 0.140A SOT23 0.25W	BAV199	SOT23-3L	x	x	x		x
V707	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x	x	x		x
V708	08-2189	08-2189 - SMA Gleichrichter 1000V 1A	S1M	SMA_DO-214AC					
V709	08-2189	08-2189 - SMA Gleichrichter 1000V 1A	S1M	SMA_DO-214AC					
V714	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L					
V800	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L					x
V801	08-0892	08-0892 - NPN High Power, 80V/1A. SOT223.	BCP56-16	SOT230P700X180-4N					x
V802	08-1152	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0.25W_BCX	BCX71H	SOT23-3L					x
V803	08-1152	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0.25W_BCX	BCX71H	SOT23-3L					x
V804	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L					x
V805	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L					
V806	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L					x
V807	11-8641	11-8641_D_VoltageReference_1fach_SMT_SOT23_0.1A_2.44-36V_	TL431	SOT23-3L					x
V808	08-5111	08-5111 - TVS Diode Bidirectional, 20V, 1500W, SMC	SMCJ20A	SMC_DO-214AB					x
V809	08-xxxx	08-xxxx - Zener Diode 5.6V SOT23-3	BZX84-C5V6	SOT23_SC88_SOT95P230X110-3N					
V810	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L					x
V811	08-xxxx	08-xxxx - Zener Diode 2.7V SOT23-3	BZX84-C2V7	SOT23_SC88_SOT95P230X110-3N					x
V812	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L					
V813	08-xxxx	08-xxxx - Zener Diode 5.6V SOT23-3	BZX84-C5V6	SOT23_SC88_SOT95P230X110-3N					x
V814	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L					x
V815	08-0180	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40	SOT23-3L					x
V816	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L					x
V817	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L					
V818	08-7321	08-7321 - Z-Diode_BZG03C200_200V_SMA_DO-214AC	BZG03C200	SMA_DO-214AC					x
V900	08-1152	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0.25W_BCX	BCX71H	SOT23-3L	x	x	x		x
V901	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x	x	x		x
V902	08-0749	08-0749 - Z-Diode 12V Minimelf	12V	MiniMELF_Diode	x	x	x		x
V903	08-4505	08-4505 - Z-Diode 6.8V Minimelf	6.8V	MiniMELF_Diode	x	x	x		x
V904	08-0749	08-0749 - Z-Diode 12V Minimelf	12V	MiniMELF_Diode	x	x	x		x
V905	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x	x	x		x
V906	08-1152	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0.25W_BCX	BCX71H	SOT23-3L	x	x	x		x
V907	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x	x	x		x
V908	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L					
V909	08-8479	08-8479 - High Power Infrared Emitter (850 nm)	SFH 4059	LED_OSRAM_SFH4059	x	x	x		x
V910	08-0180	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40	SOT23-3L	x	x	x		x
V911	08-1107	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150	SOD80_DO213AA_MLL34_MiniMelf	x	x	x		x
V912	08-0275	08-0275 - SIPMOS Small-Signal-Transistor	BSS84P	SOT23-3L					
V913	08-0275	08-0275 - SIPMOS Small-Signal-Transistor	BSS84P	SOT23-3L					
V914	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L					

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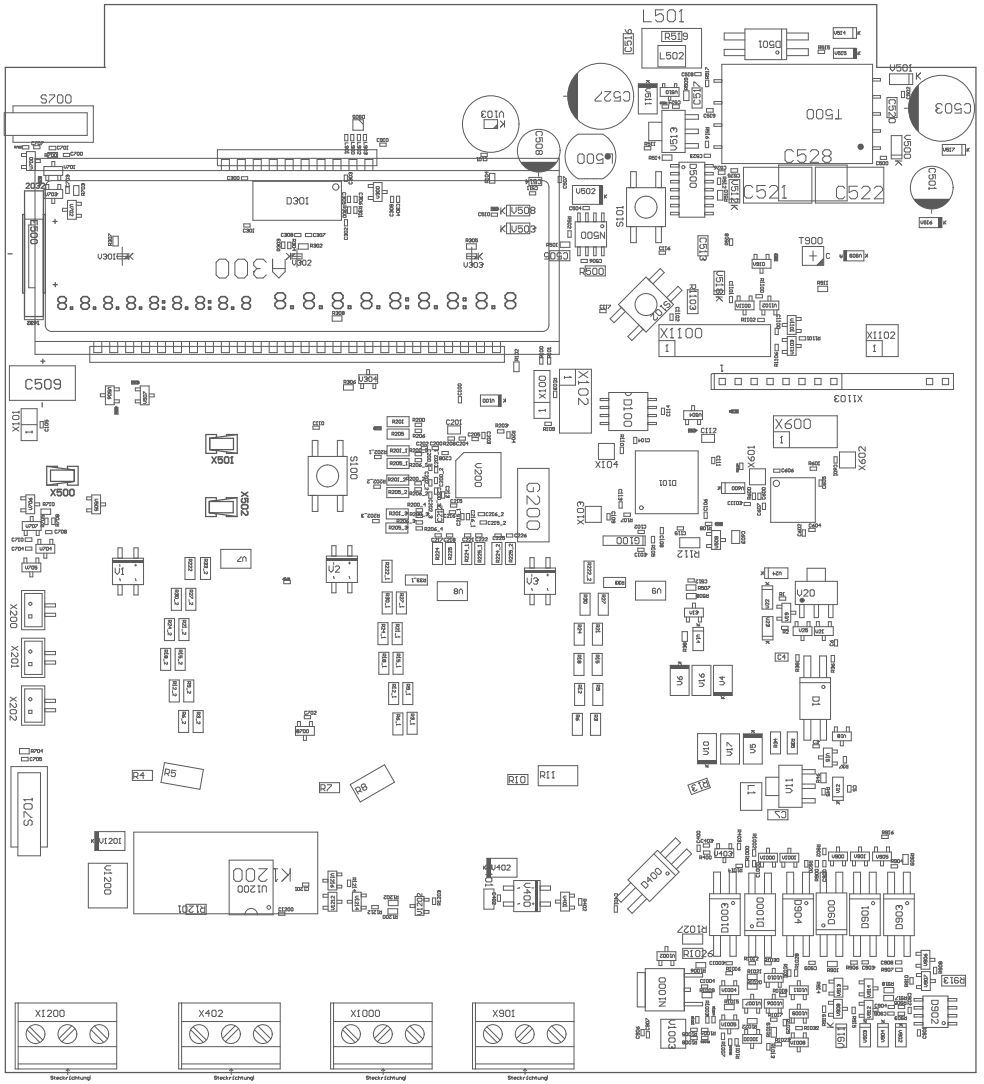
Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
V915	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L		x			
V916	08-0031	08-0031 - Z-Diode 2.7V Minimelf	2.7V	MiniMELF_Diode					x
V917	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L	x	x	x		x
V1000	08-1152	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0.25W_BCX	BCX71H	SOT23-3L					
V1001	08-0892	08-0892 - NPN High Power, 80V/1A. SOT223.	BCP56-16	SOT230P700X180-4N					
V1002	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L	x		x		x
V1003	08-0844	08-0844_TVS_bidirectional_SMT_9.3A_40V	TVS_40V	SMB_DO214AA_NOPOLARITY	x		x		x
V1004	08-6115	08-6115 - NPN Darlingten Transistor, 60V/1A. SOT223	BSP51	SOT230P700X180-4N - 2,4 connected	x		x		x
V1005	08-0180	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40	SOT23-3L	x		x		x
V1006	08-1274	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40	BAS40-04	SOT23-3L	x		x		x
V1007	08-0749	08-0749 - Z-Diode 12V Minimelf	12V	MiniMELF_Diode	x		x		x
V1010	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x		x		x
V1012	08-xxxx	08-xxxx - Z-Diode 5% 15V MiniMELF	Z15V	MiniMELF_Diode	x		x		x
V1013	08-xxxx	08-xxxx - Z-Diode 5% 15V MiniMELF	Z15V	MiniMELF_Diode	x		x		x
V1014	08-0275	08-0275 - SIPMOS Small-Signal-Transistor	BSS84P	SOT23-3L	x		x		x
V1015	08-1152	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0.25W_BCX	BCX71H	SOT23-3L	x		x		x
V1016	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x		x		x
V1017	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L					
V1100	08-0593	08-0593 - PNP General Purpose Transistor 45V 500mA 0,25W	BC807-40	SOT23-3L	x	x	x		x
V1101	08-0180	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40	SOT23-3L	x	x	x		x
V1102	08-0503	08-0503 - N-Channel 100V (D-S) MOSFET	BSS123	SOT23-3L	x	x	x		x
V1200	08-8480	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA	SMA_DO-214AC - BIDIREKTIONAL					
V1200_1	08-8480	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA	SMA_DO-214AC - BIDIREKTIONAL					
V1200_2	08-8480	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA	SMA_DO-214AC - BIDIREKTIONAL					
V1200_3	08-8480	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA	SMA_DO-214AC - BIDIREKTIONAL					
V1201	08-8481	08-8481 - TVS Diode Bidirectional, 300V, 1500W, SMC	SMCJ300CA	SMC_DO-214AB_BIDIRECTIONAL	x	x	x		x
V1202	08-5105	08-5105 - SMD TVS Diode, SMA	SMAJ33A	SMA_DO-214AC	x	x	x		x
V1202_1	08-5105	08-5105 - SMD TVS Diode, SMA	SMAJ33A	SMA_DO-214AC	x	x	x		x
V1202_2	08-5105	08-5105 - SMD TVS Diode, SMA	SMAJ33A	SMA_DO-214AC	x	x	x		x
V1202_3	08-5105	08-5105 - SMD TVS Diode, SMA	SMAJ33A	SMA_DO-214AC	x	x	x		x
V1203	08-8481	08-8481 - TVS Diode Bidirectional, 300V, 1500W, SMC	SMCJ300CA	SMC_DO-214AB_BIDIRECTIONAL	x	x	x		x
V1204	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V1204_1	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V1204_2	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V1204_3	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V1205	08-8481	08-8481 - TVS Diode Bidirectional, 300V, 1500W, SMC	SMCJ300CA	SMC_DO-214AB_BIDIRECTIONAL	x	x	x		x
V1206	08-8481	08-8481 - TVS Diode Bidirectional, 300V, 1500W, SMC	SMCJ300CA	SMC_DO-214AB_BIDIRECTIONAL	x	x	x		x
V1212	08-1120	08-1120 - Diode_AKKA_1fach_SOT23_0.12A_40V_0.2W	BAS40-05	SOT23-3L	x	x	x		x
V1214	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V1216	08-0653	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_2N7002L	2N7002L	SOT23	x	x	x		x
V1300	08-8480	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA	SMA_DO-214AC - BIDIREKTIONAL					
V1301	08-8481	08-8481 - TVS Diode Bidirectional, 300V, 1500W, SMC	SMCJ300CA	SMC_DO-214AB_BIDIRECTIONAL					

BOM variants of main PCB - MCS301 V1.5

Designator	Partnumber	Description	Comment	Footprint	R10	R11	R12	R110	R115
V1302	08-5105	08-5105 - SMD TVS Diode, SMA	SMAJ33A	SMA_DO-214AC					
X100	03-0084	03-0084 - SL_1x3p_V_RM2.54	SL_1x3p_V_RM2.54	SL1x3_V_RM2.54					
X101	03-0088-9	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54	SL1x2_V_RM2.54	x	x	x		x
X102	03-0086_1	03-0086_1 - SL_2x4p_V_RM2.54	SL_2x4p_V_RM2.54	Header2x4_V_RM2.54 - WithNPTHs					
X200	03-2780	03-2780 - BL_2x9p_V_RM2.54	BL_2x9p_V_RM2.54_DualEntry	HLE-109-02-X-DV-X-BE - Spezial fuer Metcom - 20181204	x	x	x		x
X400	24-2000	24-2000 - Schraubklemme_2x3p_180°_RM5.08	Schraubklemme	CONECTRONICS_N508263_2X3P_180°_RM5.08	x	x	x		x
X401	24-1999	24-1999 - Schraubklemme_1x3p_180°_RM5.08	Schraubklemme	conectronics_N508257_3P_180°_RM5.08					
X404	03-4128	03-4128 - Klemmenleiste 2p RM5.00	WAGO_236-402	WAGO_236-402_5mm					
X500	05-4686	05-4686 - Befestigungselement Feder, SMT	OG-503040	BATTERIEKONTAKTFEDER_SMT_LIEGEND	x	x	x		x
X501	05-4686	05-4686 - Befestigungselement Feder, SMT	OG-503040	BATTERIEKONTAKTFEDER_SMT_LIEGEND	x	x	x		x
X502	05-4686	05-4686 - Befestigungselement Feder, SMT	OG-503040	BATTERIEKONTAKTFEDER_SMT_LIEGEND					
X503	03-0088-9	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54	SL1x2_V_RM2.54					
X504	03-0088-9	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54	SL1x2_V_RM2.54					
X600	03-0086_1	03-0086_1 - SL_2x4p_V_RM2.54	SL_2x4p_V_RM2.54	Header2x4_V_RM2.54 - WithNPTHs					
X901	24-1999	24-1999 - Schraubklemme_1x3p_180°_RM5.08	Schraubklemme	conectronics_N508257_3P_180°_RM5.08					
X902	03-0088-9	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54	SL1x2_V_RM2.54					
X903	88-xxxx	88-xxxx - THT RJ12 6P, Side Entry, No Shielded	RJ12 6P	RJ12_T6N_Liegend_TOP_RM2.04_Pulse_E5566-Q0LK22-L					
X904	03-xxxx	03-xxxx - THT RJ12 6P, Side Entry, Shielded 2 Stück	RJ12 6P	RJ12_T6N_Zweifach_Liegend_ohne_LEDs_RM2.54					x
X905	24-xxxx	24-xxxx - Schraubklemme_2x2p_180°_RM5.08	Schraubklemme	CONECTRONICS_N508263_2X2P_180°_RM5.08 - duplicate	x	x	x		x
X906	24-1999	24-1999 - Schraubklemme_1x3p_180°_RM5.08	Schraubklemme	conectronics_N508257_3P_180°_RM5.08					
X1100	sol644	sol644 - SL_2x2p+2x7p_V_RM2.54	sol644	Header2x7+2x2_V_RM2.54	x	x	x		x
X1101	03-2680	03-2680 - SL_1x6p_V_RM2.54	SL_1x6p_V_RM2.54	SL1x6_V_RM2.54					
X1102	03-0451-2	03-0451-2 - SL_1x8p_V_RM2.54	SL_1x8p_V_RM2.54	SL1x8_V_RM2.54					
X1103	03-0451-2	03-0451-2 - SL_1x8p_V_RM2.54	SL_1x8p_V_RM2.54	SL1x8_V_RM2.54					
X1200	24-xxxx	24-xxxx - Schraubklemme_2x4p_180°_RM5.08	Schraubklemme	CONECTRONICS_N508263_2X4P_180°_RM5.08	x	x	x		x



Assembly Top

Legende

Customer: MetCom Systems GmbH		Project Name: MCS301-V2.0_20170908.PcbDoc	Variant: [No Variations]
	Last Change: 21.09.2017	BMK Proj. Name: sol693ra1	Designed by: POhlemueller/SSchmieder
	Revision No.: Ver1.0	BMK PCB No.: 15-0124	Checked by: POhlemueller/SSchmieder
	Design Path:		

SCALE: 1.00

Date: 21.09.2017 Time: 12:53:09

BMK electronic solutions

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Partnumber	Designato	Description	Footprint	LibRef	Fitted	Comment
05-1472	A300	05-1472 - LCD-Display Adcom-FT1612009P00_Yeebo-F	LCD-Display - Yeebo-FL9083PA1_Adcom F	LCD-DisplayAdcom-FT1612009P00_Yeebo-I	Fitted	LCD_Display
11-7114-1	B700	11-7114-1 - AH1809-WG-7	SOT23-3L	AH1809-WG-7_11-7114-1	Fitted	AH1809-WG-7
32-4397	C1	32-4397 - THT Elko RM7.5 - 1800µF 35V_geschnitten	ECAP_CUP_D18_RM7.5_H20	1800µF_35V_THT_32-4397	Fitted	1800µF/35V
32-4397	C2	32-4397 - THT Elko RM7.5 - 1800µF 35V_geschnitten	ECAP_CUP_D18_RM7.5_H20	1800µF_35V_THT_32-4397	Fitted	1800µF/35V
02-1887	C3	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-3016	C4	02-3016 - SMD Capacitor 0805 1µF 50V Y5V	CAP_0805_IPC_B	1µF_50V_0805_02-3016	Fitted	1µF/50V
02-1197	C5	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Fitted	1nF/50V
02-4561	C6	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-0279	C7	02-0279 - SMD Capacitor 1206 1nF 50V C0G	CAP_1206_IPC_B	1nF_50V_1206_02-0279	Fitted	1nF/50V
02-4561	C100	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C101	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1904-3	C102	02-1904-3 - SMD Capacitor 0402 10pF 50V NP0	CAP_0402_IPC_B	10pF_50V_0402_02-1904-3	Fitted	10pF/50V
02-1904-3	C103	02-1904-3 - SMD Capacitor 0402 10pF 50V NP0	CAP_0402_IPC_B	10pF_50V_0402_02-1904-3	Fitted	10pF/50V
02-4561	C104	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C105	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C106	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-2200	C108	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-4561	C109	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C110	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C111	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4679	C112	02-4679 - SMD Capacitor 0805 10µF 25V X5R	CAP_0805_IPC_B	10µF_25V_0805_02-4679	Fitted	10µF/25V
02-4561	C113	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C114	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C115	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C116	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C117	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-2200	C200	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C200_1	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C200_2	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C200_3	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-4679	C201	02-4679 - SMD Capacitor 0805 10µF 25V X5R	CAP_0805_IPC_B	10µF_25V_0805_02-4679	Fitted	10µF/25V
02-2200	C202	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C202_1	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C202_2	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C202_3	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-4561	C203	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C204	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C205	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C208	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4679	C212	02-4679 - SMD Capacitor 0805 10µF 25V X5R	CAP_0805_IPC_B	10µF_25V_0805_02-4679	Fitted	10µF/25V
02-4561	C213	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-2200	C215	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C215_1	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C215_2	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C216	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C216_1	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-2200	C216_2	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-1887	C217	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C218	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C221	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C222	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C225	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C226	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C300	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Not Fitted	100pF/50V
02-1887	C301	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Not Fitted	100pF/50V
02-1887	C302	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Not Fitted	100pF/50V
02-1887	C303	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Not Fitted	100pF/50V
02-4561	C304	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1887	C305	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C306	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-4561	C307	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C308	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C309	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1887	C400	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C401	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V

02-4561	C402	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1887	C403	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-4561	C500	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
32-6002	C501	32-6002 - Nichicon ULD1A221MED1TD	ECAP_CUP_D6.3_RM2.5_H11	220µF_10V_RM2.50_32-6002	Fitted	220µF/10V
02-4561	C502	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
32-0441	C503	32-0441 - Nichicon UHE1H151MPD	ECAP_CUP_D10_RM5_H12.5	150µF_50V_RM5_32-0441	Fitted	150µF/50V
02-1883	C504	02-1883 - SMD Capacitor 0402 220pF 50V X7R	CAP_0402_IPC_B	220pF_50V_0402_02-1883	Fitted	220pF/50V
02-4850	C505	02-4850 - SMD Capacitor 1206 10µF 50V X5R	CAP_1206_IPC_B - mod_1.2mm	10µF_50V_1206_02-4850	Fitted	10µF/50V
02-4561	C506	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C507	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
32-6002	C508	32-6002 - Nichicon ULD1A221MED1TD	ECAP_CUP_D6.3_RM2.5_H11	220µF_10V_RM2.50_32-6002	Fitted	220µF/10V
02-2247	C509	02-2247 - THT Gold Capacitor D10.5xH11.5 RM5	CAP_CUP_D10.50_RM5.00_GOLDCAP_STE	220µF_5.5V_THT_02-2247	Fitted	220µF/5.5V
02-4561	C510	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C511	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-2200	C512	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-4850	C513	02-4850 - SMD Capacitor 1206 10µF 50V X5R	CAP_1206_IPC_B - mod_1.2mm	10µF_50V_1206_02-4850	Fitted	10µF/50V
02-4679	C514	02-4679 - SMD Capacitor 0805 10µF 25V X5R	CAP_0805_IPC_B	10µF_25V_0805_02-4679	Fitted	10µF/25V
02-4850	C516	02-4850 - SMD Capacitor 1206 10µF 50V X5R	CAP_1206_IPC_B - mod_1.2mm	10µF_50V_1206_02-4850	Fitted	10µF/50V
02-4850	C517	02-4850 - SMD Capacitor 1206 10µF 50V X5R	CAP_1206_IPC_B - mod_1.2mm	10µF_50V_1206_02-4850	Fitted	10µF/50V
02-4561	C518	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1197	C519	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Fitted	1nF/50V
02-2870	C520	02-2870 - SMD Capacitor 1206 1nF 500V X7R	CAP_1206_IPC_B	1nF_500V_1206_02-2870	Fitted	1nF/500V
02-4118	C521	02-4118 - THT Capacitor Disc RM9.5 2.2nF 500V Y1	CAP_DISC_RM9.5	2.2nF_500V_RM9.5_02-4118	Not Fitted	2.2nF/500V/Y1
02-4118	C522	02-4118 - THT Capacitor Disc RM9.5 2.2nF 500V Y1	CAP_DISC_RM9.5	2.2nF_500V_RM9.5_02-4118	Not Fitted	2.2nF/500V/Y1
02-4561	C523	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1197	C524	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Fitted	1nF/50V
02-1197	C525	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Not Fitted	1nF/50V
02-1197	C526	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Fitted	1nF/50V
32-0441	C527	32-0441 - Nichicon UHE1H151MPD	ECAP_CUP_D10_RM5_H12.5	150µF_50V_RM5_32-0441	Fitted	150µF/50V
02-4118	C528	02-4118 - THT Capacitor Disc RM9.5 2.2nF 500V Y1	CAP_DISC_RM9.5	2.2nF_500V_RM9.5_02-4118	Fitted	2.2nF/500V/Y1
02-2200	C600	02-2200 - SMD Capacitor 0402 10nF 50V X7R	CAP_0402_IPC_B	10nF_50V_0402_02-2200	Fitted	10nF/50V
02-4561	C601	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C602	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4679	C603	02-4679 - SMD Capacitor 0805 10µF 25V X5R	CAP_0805_IPC_B	10µF_25V_0805_02-4679	Fitted	10µF/25V
02-4561	C604	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C605	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C606	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C607	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C700	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1197	C701	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Fitted	1nF/50V
02-4561	C702	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1197	C703	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Fitted	1nF/50V
02-4561	C704	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1197	C705	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Fitted	1nF/50V
02-4561	C707	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C708	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1197	C710	02-1197 - SMD Capacitor 0402 1nF 50V X7R	CAP_0402	1nF_50V_0402_02-1197	Fitted	1nF/50V
02-1887	C900	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-4561	C901	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1887	C902	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C903	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C904	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C905	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C906	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C907	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C908	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C909	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-4561	C910	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1887	C1000	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-1887	C1003	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
02-4561	C1004	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C1100	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C1101	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C1102	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-4561	C1103	02-4561 - SMD Capacitor 0402 100nF 50V X7R	CAP_0402_IPC_B	100nF_50V_0402_02-4561	Fitted	100nF/50V
02-1887	C1200	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V

02-1887	C1201	02-1887 - SMD Capacitor 0402 100pF 50V NP0	CAP_0402_IPC_B	100pF_50V_0402_02-1887	Fitted	100pF/50V
11-8673-1	D1	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
10-3034_1	D100	10-3034_1_MX25L1606EM2I- Serial Flash SO8 Wide	SO8_KOMBI_WIDE_208mil_NARROW	MX25L1606EM2I_10-3034_1	Fitted	MX25L1606EM2I
07-1683	D101	07-1683 - STM32F051R8T6 QFP64	LQFP50P1200X1200X160-64N	STM32F051R8T6_07-1683	Fitted	STM32F051R8T6
06-3409	D301	06-3409 - Universal LCD Driver, TSSOP-56	TSSOP56_14.0x6.1_PITCH0.5_TSSOP50P81	PCF8545ATT/AJ_06-3409	Fitted	PCF8545
11-8673-1	D400	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
06-0016	D500	06-0016 - Schmitt-Trigger Inverter 5V 0-5V SO14	SOIC127P600X175-14N	74HC14_06-0016	Fitted	74HC14
11-8673-1	D501	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
07-3929_1	D600	07-3929_1 - STM32F401CEU6, QFN48	QFN50P700X700X60_HS-49N	STM32F401CEU6_07-3929_1	Fitted	STM32F401CEU6
11-8673-1	D900	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
11-8673-1	D901	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
06-0351	D902	06-0351 - Differential Bus Transceivers	SO8_127P600X176-8N	SN75176BDR_06-0351	Fitted	SN75176BDR
11-8673-1	D903	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
11-8673-1	D904	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
07-3716	D905	07-3716 - SL3S4011	TQFN8_0.5_NXP	SL3S4011_07-3716	Fitted	SL3S4011
11-8673-1	D1000	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
07-0970	D1001	07-0970 - Spannungsreferenz 2.495V 0.1A SOT23-3	SOT23-3L	TL431BIDBZ_07-0970	Fitted	TL431B
11-8673-1	D1003	11-8673-1 Optokoppler SMD4 1fach 5kV	SMD4_PITCH2.54_WIDE	PC123X1YUP0F_11-8673-1	Fitted	PC123X1YUP0F
05-2441-1	E500	05-2441-1 - Knopfzelle CR2032 MFR 3V 225mAh Lithiu	BATTERIE_THT_STEHEND_KOMBI_CR1632	CR-2032RV-L_3V_225mAh_05-2441-1	Fitted	CR2032
09-2025	G100	09-2025 - Quarz 32.768kHz	QUARTZ_7x1.5MM_SMT	Q_32.768kHz_09-2025	Fitted	32.768kHz
09-2687	G200	09-2687 - Quarz HC49SMD	HC49-SMD	Q_16.384MHz_09-2687	Fitted	16.384MHz
05-9055_1	G500	05-9055_1 - Batterie ER 1/2 AA PCBD 10.0 N		ER 1/2 AA PCBD 10.0 N_05-9055_1	Not Fitted	Batterie 1/2 AA
88-888888	K1200	88-888888 - THT Relais Hongfa	RELAIS_Combi_HFE_FJI-JE_Metcom_MCS3	Relais_Hongfa_88-888888	Fitted	HFE7/12-1HSTG-L2
04-5001	L1	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476	WUERTH_WE-GF_4.5x3.2x3.2	Ind_74476630_04-5001	Fitted	1000µH/30mA
04-3373	L500	04-3373 - SPEICHERDROSSEL WE-PD2	WUERTH_WE-PD2_7.0x7.8mm	Spule_330µH_0.43A_04-3373	Fitted	330µH/0.43A
04-0797	L501	04-0797 - Stromkomp. Drossel WE-SL2, 9.2x6mm.	WUERTH_WE-SL2_OHNE_PIN1_KENNUNG	Spule_6.5mH_0.4A_04-0797	Fitted	6.5mH/0.4A
04-5001	L502	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476	WUERTH_WE-GF_4.5x3.2x3.2	Ind_74476630_04-5001	Not Fitted	1000µH/30mA
04-4418	L900	04-4418 - Ferrit 1000R@100MHz 200mA 0402	IND_0402_Murata	Ferrit_1000R@100MHz_04-4418	Fitted	1000R@100MHz/200mA
04-4418	L901	04-4418 - Ferrit 1000R@100MHz 200mA 0402	IND_0402_Murata	Ferrit_1000R@100MHz_04-4418	Fitted	1000R@100MHz/200mA
04-4418	L902	04-4418 - Ferrit 1000R@100MHz 200mA 0402	IND_0402_Murata	Ferrit_1000R@100MHz_04-4418	Fitted	1000R@100MHz/200mA
04-4418	L903	04-4418 - Ferrit 1000R@100MHz 200mA 0402	IND_0402_Murata	Ferrit_1000R@100MHz_04-4418	Fitted	1000R@100MHz/200mA
11-8546	N500	11-8546 - DC/DC converter control circuit SO8	SO8_127P600X176-8N	MC34063EBD_11-8546	Fitted	MC34063EBD
11-2625-1	N1000	11-2625-1 - Adj - Voltage Regulator 0.5 A	TO252_TS-003_RLP235A_123	LM317MDT_11-2625-1	Fitted	LM317MDT
01-1907	R1	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1911	R2	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-0672-2	R3	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R3_1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R3_2	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0160	R4	01-0160 - SMD Resistor 1206 0.25W 5%	RES_1206_IPC_B	0R_1206_01-0160	Fitted	0R
01-6399	R5	01-6399 - SMD Resistor 2512 - 1W - 1%	RES_2512_IPC_B	1R_2512_01-6399	Fitted	1R
01-0663_1	R6	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R6_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R6_2	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0160	R7	01-0160 - SMD Resistor 1206 0.25W 5%	RES_1206_IPC_B	0R_1206_01-0160	Fitted	0R
01-6399	R8	01-6399 - SMD Resistor 2512 - 1W - 1%	RES_2512_IPC_B	1R_2512_01-6399	Fitted	1R
01-0672-2	R9	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R9_1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R9_2	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0160	R10	01-0160 - SMD Resistor 1206 0.25W 5%	RES_1206_IPC_B	0R_1206_01-0160	Fitted	0R
01-6399	R11	01-6399 - SMD Resistor 2512 - 1W - 1%	RES_2512_IPC_B	1R_2512_01-6399	Fitted	1R
01-0663_1	R12	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R12_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R12_2	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0160	R13	01-0160 - SMD Resistor 1206 0.25W 5%	RES_1206_IPC_B	0R_1206_01-0160	Fitted	0R
01-0672-2	R15	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R15_1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R15_2	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0663_1	R18	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R18_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R18_2	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0672-2	R21	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R21_1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R21_2	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0663_1	R24	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R24_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R24_2	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm

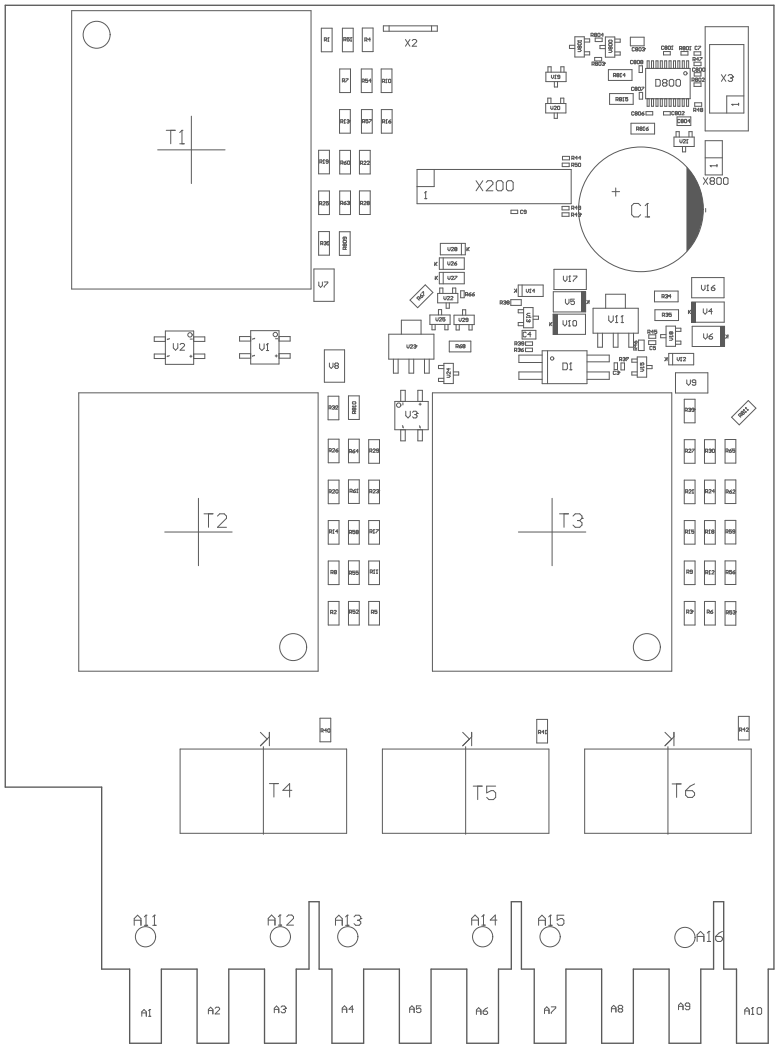
01-0672-2	R27	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R27_1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R27_2	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0663_1	R30	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R30_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R30_2	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0672-2	R33	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R33_1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0672-2	R33_2	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	22k_MiniMelf_01-0672-2	Fitted	22k/50ppm
01-0663_1	R34	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R35	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-1907	R36	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1911	R37	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0960	R38	01-0960 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	100k_0603_01-0960	Not Fitted	100k
01-1927	R39	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Not Fitted	1M
01-1927	R45	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Not Fitted	1M
01-0080	R46	01-0080 - SMD Resistor 0603 0.1W 5%	RES_0603_IPC_B	0R_0603_01-0080	Fitted	0R
01-1911	R100	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R101	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0820	R102	01-0820 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	220R_0603_01-0820	Fitted	220R
01-1907	R103	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-0820	R104	01-0820 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	220R_0603_01-0820	Fitted	220R
01-1890	R105	01-1890 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	0R_0402_01-1890	Fitted	0R
01-1911	R106	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1906	R107	01-1906 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100R_0402_01-1906	Fitted	100R
01-1911	R108	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-1911	R109	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-1911	R110	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-1046	R112	01-1046 - SMD Resistor 1206 0.25W 1%	RES_1206_IPC_B	10R_1206_01-1046	Fitted	10R
01-1911	R200	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R200_1	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R200_2	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R200_3	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R200_4	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1527	R201	01-1527 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	1.5R_MiniMelf_01-1527	Fitted	1.5R/50ppm
01-1527	R201_1	01-1527 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	1.5R_MiniMelf_01-1527	Fitted	1.5R/50ppm
01-1527	R201_2	01-1527 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	1.5R_MiniMelf_01-1527	Fitted	1.5R/50ppm
01-1527	R201_3	01-1527 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	1.5R_MiniMelf_01-1527	Fitted	1.5R/50ppm
01-1890	R202	01-1890 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	0R_0402_01-1890	Fitted	0R
01-1890	R202_1	01-1890 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	0R_0402_01-1890	Fitted	0R
01-1890	R202_2	01-1890 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	0R_0402_01-1890	Fitted	0R
01-1890	R202_3	01-1890 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	0R_0402_01-1890	Fitted	0R
01-1907	R203	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1911	R204	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-1527	R205	01-1527 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	1.5R_MiniMelf_01-1527	Fitted	1.5R/50ppm
01-1527	R205_1	01-1527 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	1.5R_MiniMelf_01-1527	Fitted	1.5R/50ppm
01-1527	R205_2	01-1527 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	1.5R_MiniMelf_01-1527	Fitted	1.5R/50ppm
01-1527	R205_3	01-1527 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	1.5R_MiniMelf_01-1527	Fitted	1.5R/50ppm
01-1911	R206	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R206_1	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R206_2	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R206_3	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R206_4	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1908	R208	01-1908 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10R_0402_01-1908	Fitted	10R/200ppm
01-0663_1	R222	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R222_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0663_1	R222_2	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N - ISO2mm	100k_MiniMelf_01-0663_1	Fitted	100k/50ppm
01-0664	R224	01-0675-3 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	220R_MiniMelf_01-0675-3	Fitted	220R/50ppm
01-0675-3	R224_1	01-0675-3 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	220R_MiniMelf_01-0675-3	Fitted	220R/50ppm
01-0675-3	R224_2	01-0675-3 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	220R_MiniMelf_01-0675-3	Fitted	220R/50ppm
01-0675-3	R225	01-0675-3 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	220R_MiniMelf_01-0675-3	Fitted	220R/50ppm
01-0675-3	R225_1	01-0675-3 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	220R_MiniMelf_01-0675-3	Fitted	220R/50ppm
01-0675-3	R225_2	01-0675-3 - SMD Resistor MiniMelf 0.25W 1%	RES_MiniMELF_3514N	220R_MiniMelf_01-0675-3	Fitted	220R/50ppm
01-1911	R300	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R301	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0960	R302	01-0960 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	100k_0603_01-0960	Fitted	100k

01-1911	R303	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-1907	R304	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-0947	R305	01-0947 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	22R_0603_01-0947	Fitted	22R
01-0898	R306	01-0898 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	1M_0603_01-0898	Fitted	1M
01-0947	R307	01-0947 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	22R_0603_01-0947	Fitted	22R
01-0947	R308	01-0947 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	22R_0603_01-0947	Fitted	22R
01-1911	R400	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0216	R401	01-0216 - SMD Resistor 1206 0.25W 1%	RES_1206_IPC_B	100R_1206_01-0216	Fitted	100R
01-1905	R402	01-1905 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100k_0402_01-1905	Fitted	100k
01-1927	R403	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
01-8973	R500	01-8973 - SMD Resistor 1206 0.25W 1%	RES_1206_IPC_B	0.43R_1206_01-8973	Fitted	0.43R
01-0885	R501	01-0885 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	22k_0603_01-0885	Fitted	22k
01-1907	R502	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1927	R503	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
01-1906	R504	01-1906 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100R_0402_01-1906	Fitted	100R
01-1906	R505	01-1906 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100R_0402_01-1906	Fitted	100R
01-1927	R506	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
01-0960	R507	01-0960 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	100k_0603_01-0960	Fitted	100k
01-0885	R508	01-0885 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	22k_0603_01-0885	Fitted	22k
01-0885	R509	01-0885 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	22k_0603_01-0885	Fitted	22k
01-1309	R510	01-1309 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	11k_0603_01-1309	Fitted	11k
01-1911	R511	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1907	R512	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1907	R513	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-0506	R514	01-0506 - SMD Resistor 0603 0.063W 5%	RES_0603_IPC_B	10R_0603_01-0506	Fitted	10R/5%/200ppm
01-1906	R515	01-1906 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100R_0402_01-1906	Fitted	100R
01-1890	R516	01-1890 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	0R_0402_01-1890	Not Fitted	0R
01-1890	R517	01-1890 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	0R_0402_01-1890	Fitted	0R
01-1911	R518	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0160	R519	01-0160 - SMD Resistor 1206 0.25W 5%	RES_1206_IPC_B	0R_1206_01-0160	Not Fitted	0R
01-1906	R600	01-1906 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100R_0402_01-1906	Fitted	100R
01-1911	R601	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-3661	R700	01-3661 - SMD Resistor 0603 0.063W 1%	RES_0603_IPC_B	4.7M_0603_01-3661	Fitted	4.7M
01-1911	R701	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R702	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-3661	R703	01-3661 - SMD Resistor 0603 0.063W 1%	RES_0603_IPC_B	4.7M_0603_01-3661	Fitted	4.7M
01-3661	R704	01-3661 - SMD Resistor 0603 0.063W 1%	RES_0603_IPC_B	4.7M_0603_01-3661	Fitted	4.7M
01-1911	R705	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1905	R707	01-1905 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100k_0402_01-1905	Not Fitted	100k
01-1911	R708	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-3661	R710	01-3661 - SMD Resistor 0603 0.063W 1%	RES_0603_IPC_B	4.7M_0603_01-3661	Fitted	4.7M
01-1911	R900	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0820	R901	01-0820 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	220R_0603_01-0820	Fitted	220R
01-1911	R902	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1908	R903	01-1908 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10R_0402_01-1908	Fitted	10R/200ppm
01-1911	R904	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1908	R905	01-1908 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10R_0402_01-1908	Fitted	10R/200ppm
01-1907	R906	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1911	R907	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1907	R908	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-0820	R909	01-0820 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	220R_0603_01-0820	Fitted	220R
01-1911	R910	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0820	R911	01-0820 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	220R_0603_01-0820	Fitted	220R
01-3517-1	R912	01-3517-1 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1.8k_0402_01-3517-1	Fitted	1.8k
01-0663	R913	01-0663 - SMD Resistor MiniMelf 0.25W 1%	SOD80_MLL34_MiniMelf_Res	100k_MiniMelf_01-0663	Fitted	100k/50ppm
01-1907	R914	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1907	R915	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1927	R916	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
01-0884	R917	01-0884 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	560R_0603_01-0884	Fitted	560R
01-0884	R918	01-0884 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	560R_0603_01-0884	Fitted	560R
01-1927	R919	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
01-1911	R920	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R1000	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1908	R1001	01-1908 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10R_0402_01-1908	Fitted	10R/200ppm
01-1911	R1002	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-3889	R1003	01-3889 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	270R_0402_01-3889	Fitted	270R

01-3474	R1004	01-3474 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	220R_0402_01-3474	Fitted	220R
01-1908	R1005	01-1908 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10R_0402_01-1908	Fitted	10R/200ppm
01-0489	R1006	01-0489 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	33k_0603_01-0489	Fitted	33k
01-3455	R1007	01-3455 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	22k_0402_01-3455	Fitted	22k
01-1908	R1008	01-1908 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10R_0402_01-1908	Fitted	10R/200ppm
01-0489	R1009	01-0489 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	33k_0603_01-0489	Fitted	33k
01-2654	R1010	01-2654 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	27k_0402_01-2654	Fitted	27k
01-2654	R1011	01-2654 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	27k_0402_01-2654	Fitted	27k
01-1907	R1012	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1907	R1013	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Not Fitted	10k
01-1911	R1014	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0607	R1015	01-0607 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	4.7k_0603_01-0607	Fitted	4.7k
01-1911	R1016	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R1017	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R1018	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-0489	R1019	01-0489 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	33k_0603_01-0489	Fitted	33k
01-0489	R1020	01-0489 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	33k_0603_01-0489	Fitted	33k
01-0489	R1021	01-0489 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	33k_0603_01-0489	Fitted	33k
01-1418	R1022	01-1418 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	240R_0603_01-1418	Fitted	240R
01-1911	R1023	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-1911	R1024	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-1911	R1025	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-0636	R1026	01-0636 - SMD Resistor 1206 0.25W 1%	RES_1206_IPC_B	2.2k_1206_01-0636	Not Fitted	2.2k
01-0636	R1027	01-0636 - SMD Resistor 1206 0.25W 1%	RES_1206_IPC_B	2.2k_1206_01-0636	Not Fitted	2.2k
01-1905	R1028	01-1905 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100k_0402_01-1905	Not Fitted	100k
01-1911	R1029	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Not Fitted	1k
01-1908	R1030	01-1908 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10R_0402_01-1908	Fitted	10R/200ppm
01-1907	R1031	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Not Fitted	10k
01-1906	R1032	01-1906 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	100R_0402_01-1906	Not Fitted	100R
01-1907	R1100	01-1907 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10k_0402_01-1907	Fitted	10k
01-1911	R1101	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1911	R1102	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-0663	R1103	01-0663 - SMD Resistor MiniMelf 0.25W 1%	SOD80_MLL34_MiniMelf_Res	100k_MiniMelf_01-0663	Fitted	100k/50ppm
01-1911	R1104	01-1911 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1k_0402_01-1911	Fitted	1k
01-1927	R1105	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
01-1908	R1106	01-1908 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	10R_0402_01-1908	Fitted	10R/200ppm
01-0596	R1200	01-0596 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	180R_0603_01-0596	Fitted	180R
01-0160	R1201	01-0160 - SMD Resistor 1206 0.25W 5%	RES_1206_IPC_B	0R_1206_01-0160	Fitted	0R
01-0596	R1202	01-0596 - SMD Resistor 0603 0.1W 1%	RES_0603_IPC_B	180R_0603_01-0596	Fitted	180R
01-1927	R1203	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
01-1927	R1212	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
01-1927	R1214	01-1927 - SMD Resistor 0402 0.063W 1%	RES_0402_IPC_B	1M_0402_01-1927	Fitted	1M
05-3455	S100	05-3455 - Tact-Switch 5x5mm	SWITCH_TACT_SMT_KSC_GPads_2Pins - P	Tact-Switch_5x5mm_05-3455	Fitted	Tact-Switch
05-3455	S101	05-3455 - Tact-Switch 5x5mm	SWITCH_TACT_SMT_KSC_GPads_2Pins - P	Tact-Switch_5x5mm_05-3455	Fitted	Tact-Switch
05-3455	S102	05-3455 - Tact-Switch 5x5mm	SWITCH_TACT_SMT_KSC_GPads_2Pins - P	Tact-Switch_5x5mm_05-3455	Fitted	Tact-Switch
05-8332	S700	05-8332 - Microswitch SPDT DM1-01P-30-3	Multicomp_DM1-01P-30-3	DM1-01P-30-3_05-8332	Fitted	DM1-01P-30-3
05-8332	S701	05-8332 - Microswitch SPDT DM1-01P-30-3	Multicomp_DM1-01P-30-3	DM1-01P-30-3_05-8332	Fitted	DM1-01P-30-3
Dummy_MCS	T1	Dummy_MCS301V2.0	HAHN_EI30	Trafo_HAHN _Dummy_MCS301V2.0	Fitted	Dummy_MCS301V2.0
Dummy_MCS	T2	Dummy_MCS301V2.0	HAHN_EI30	Trafo_HAHN _Dummy_MCS301V2.0	Fitted	Dummy_MCS301V2.0
Dummy_MCS	T3	Dummy_MCS301V2.0	HAHN_EI30	Trafo_HAHN _Dummy_MCS301V2.0	Fitted	Dummy_MCS301V2.0
04-6570	T500	04-6570 _WUERTH_750316702r01	WUERTH_750316702	WUERTH_750316702r01_04-6570	Fitted	750316702
04-6895	T501	04-6895_WUERTH_750370799	WUERTH_10Polig_RM2.50/10mm_#pin1 u	WUERTH_750370799_04-6895	Fitted	750370799
08-8742	T900	08-8742_Phototransistor_1fach_SMT	PLCC2_PHOTO_TRANSISTOR	T_Phototransistor_AA3528P3S_08-8742	Fitted	AA3528P3S
99-0014	TP100	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Testpunkt_1mm_rund	Fitted	Testpunkt
99-0014	TP700	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Testpunkt_1mm_rund	Fitted	Testpunkt
99-0014	TP701	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Testpunkt_1mm_rund	Fitted	Testpunkt
99-0014	TP702	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Testpunkt_1mm_rund	Fitted	Testpunkt
99-0014	TP703	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Testpunkt_1mm_rund	Fitted	Testpunkt
99-0014	TP1200	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Testpunkt_1mm_rund	Fitted	Testpunkt
99-0014	TP1201	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Testpunkt_1mm_rund	Fitted	Testpunkt
99-0014	TP1210	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Testpunkt_1mm_rund	Fitted	Testpunkt
04-6347	U1200	04-6347 - Solid-State Relay SMD6 1fach 5kV	DIP6_SMD_OPTO_PITCH2.54_H=3.7	VOR1142B6_04-6347	Fitted	VOR1142B6
08-1108	V1	08-1108 - Diodennetzwerk 400V 0.5A SMD	SOIC254P670X290-4N	GL_MB4S_08-1108	Fitted	MB4S
08-1108	V2	08-1108 - Diodennetzwerk 400V 0.5A SMD	SOIC254P670X290-4N	GL_MB4S_08-1108	Fitted	MB4S
08-1108	V3	08-1108 - Diodennetzwerk 400V 0.5A SMD	SOIC254P670X290-4N	GL_MB4S_08-1108	Fitted	MB4S
08-1092	V4	08-1092 - SMA Gleichrichter 1000V 1A	SMA_DO-214AC	GL_US1M-E3/61T_SMA_1000V_1A_08-1092	Fitted	S1M

08-1092	V5	08-1092 - SMA Gleichrichter 1000V 1A	SMA_DO-214AC	GL_US1M-E3/61T_SMA_1000V_1A_08-1092	Fitted	S1M
08-1092	V6	08-1092 - SMA Gleichrichter 1000V 1A	SMA_DO-214AC	GL_US1M-E3/61T_SMA_1000V_1A_08-1092	Fitted	S1M
08-8480	V7	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMA_DO-214AC - BIDIREKTIONAL	D_SMAJ300CA_08-8480	Fitted	SMAJ300CA
08-8480	V8	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMA_DO-214AC - BIDIREKTIONAL	D_SMAJ300CA_08-8480	Fitted	SMAJ300CA
08-8480	V9	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMA_DO-214AC - BIDIREKTIONAL	D_SMAJ300CA_08-8480	Fitted	SMAJ300CA
08-1092	V10	08-1092 - SMA Gleichrichter 1000V 1A	SMA_DO-214AC	GL_US1M-E3/61T_SMA_1000V_1A_08-1092	Fitted	S1M
08-8613	V11	08-8613 - N-Channel QFET MOSFET 800V 0.2A	SOT230P700X180-4N	M_FQT1N80TF_WS_08-8613	Fitted	FQT1N80TF_WS
08-0604	V12	08-0604 - Z-Diode 5% 12V MiniMELF	MiniMELF_Diode	D_BZV55C12V_08-0604	Not Fitted	BZV55C12V
08-0621-3	V13	08-0621-3 - Low-leakage double diode 75V 0.125A SO	SOT23-3L	D_BAV170_08-0621-3	Fitted	BAV170
08-0604	V14	08-0604 - Z-Diode 5% 12V MiniMELF	MiniMELF_Diode	D_BZV55C12V_08-0604	Fitted	BZV55C12V
08-0154	V15	08-0154 - PNP General Purpose Transistor 45V 100mA	SOT23-3L	T_BC857_PNP_45V_100mA_08-0154	Fitted	BC857
08-8480	V16	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMA_DO-214AC - BIDIREKTIONAL	D_SMAJ300CA_08-8480	Fitted	SMAJ300CA
08-8480	V17	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMA_DO-214AC - BIDIREKTIONAL	D_SMAJ300CA_08-8480	Fitted	SMAJ300CA
08-0621-3	V18	08-0621-3 - Low-leakage double diode 75V 0.125A SO	SOT23-3L	D_BAV170_08-0621-3	Fitted	BAV170
08-0180	V19	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Fitted	BC817-40
08-0892	V20	08-0892 - NPN High Power, 80V/1A. SOT223.	SOT230P700X180-4N	T_BCP56-16_08-0892	Fitted	BCP56-16
08-0621-3	V21	08-0621-3 - Low-leakage double diode 75V 0.125A SO	SOT23-3L	D_BAV170_08-0621-3	Fitted	BAV170
08-3361	V22	08-3361 - Small Signal Zener Diode, MiniMELF	MiniMELF_Diode	D_TZMC18_08-3361	Fitted	TZMC18
08-3361	V23	08-3361 - Small Signal Zener Diode, MiniMELF	MiniMELF_Diode	D_TZMC18_08-3361	Not Fitted	TZMC18
08-3361	V24	08-3361 - Small Signal Zener Diode, MiniMELF	MiniMELF_Diode	D_TZMC18_08-3361	Fitted	TZMC18
08-0621-3	V25	08-0621-3 - Low-leakage double diode 75V 0.125A SO	SOT23-3L	D_BAV170_08-0621-3	Fitted	BAV170
08-1485	V100	08-1485 - LED_Rot 1206 30mA	LED_1206	LED_Rot_08-1485	Fitted	LED_Rot
08-1485	V103	08-1485 - LED_Rot 1206 30mA	LED_1206	LED_Rot_08-1485	Fitted	LED_Rot
07-3930	V200	07-3930 - Atmel Poly-Phase Energy Metering IC, TQFP4	QFP48__PI0.50_EL7.00x7.00	ATM90E36A-AU-R_07-3930	Fitted	M90E36A
08-0180	V300	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Fitted	BC817-40
08-5723	V301	08-5723 - SMD-LED, weiss, 0603	LED_0603	LED_Weiss_0603_08-5723	Fitted	LED white
08-5723	V302	08-5723 - SMD-LED, weiss, 0603	LED_0603	LED_Weiss_0603_08-5723	Fitted	LED white
08-5723	V303	08-5723 - SMD-LED, weiss, 0603	LED_0603	LED_Weiss_0603_08-5723	Fitted	LED white
08-0653	V304	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_	SOT23	M_2N7002L_08-0653	Fitted	2N7002L
08-1108-1	V400	08-1108-1 - Diodennetzwerk 400V 0.5A SMD	SOIC254P670X290-4N	GL_MB4S_08-1108-1	Fitted	MB4S
08-0180	V401	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Fitted	BC817-40
08-1843-1	V402	08-1843-1 - TVS Diode Uni, 8.3A, 30V, 400W, SMA	SMA_DO-214AC	D_SMAJ30A-TR_08-1843-1	Fitted	SMAJ30A
08-0653	V403	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_	SOT23	M_2N7002L_08-0653	Fitted	2N7002L
08-1107	V500	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	SOD80_DO213AA_MLL34_MiniMelf	LL4150_08-1107	Fitted	LL4150
08-0678-3	V501	08-0678-3_Diode_SMT_MiniMelf_0.5A_200V_0.5W	MiniMELF_Diode	BAV103_08-0678-3	Fitted	BAV103
08-1618	V502	08-1618 - Schottky-Diode 40V 3A SMA	SMA_DO-214AC	D_MBRA340T3_08-1618	Fitted	MBRA340T3
08-1107	V503	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	SOD80_DO213AA_MLL34_MiniMelf	LL4150_08-1107	Fitted	LL4150
08-0275	V504	08-0275 - SIPMOS Small-Signal-Transistor	SOT23-3L	M_BSS84_08-0275	Fitted	BSS84P
08-1507	V505	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Fitted	BAV199
08-1507	V506	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Fitted	BAV199
08-1507	V507	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Fitted	BAV199
08-1107	V508	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	SOD80_DO213AA_MLL34_MiniMelf	LL4150_08-1107	Fitted	LL4150
08-1274	V509	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2	SOT23-3L	D_Diode_AKAK_40V_BAV40-04_08-1274	Fitted	BAS40-04
08-0321	V510	08-0321 - Zener Diode 30V SOT23-3	SOT23_SC88_SOT95P230X110-3N	D_BZX84B30_08-0321	Not Fitted	BZX84-B30
08-1618	V511	08-1618 - Schottky-Diode 40V 3A SMA	SMA_DO-214AC	D_MBRA340T3_08-1618	Fitted	MBRA340T3
08-1107	V512	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	SOD80_DO213AA_MLL34_MiniMelf	LL4150_08-1107	Fitted	LL4150
xx-xxxx	V513	xx-xxxx - SIPMOS Small-Signal-Transistor N-Channel	SOT230P700X180-4N - 2,4 connected	M_BSP372_xx-xxxx	Fitted	BSP372
08-4149	V514	08-4149 - Z-Diode39V MiniMELF	MiniMELF_Diode	D_TZMC39GS08_08-4149	Fitted	TZMC39GS08
08-7845	V515	08-7845 - Z-Diode 5% 3.9V MiniMELF	DIOMELF3515N_MiniMelf	D_BZV55C3V9_08-7845	Not Fitted	BZV55C3V9
08-7845	V516	08-7845 - Z-Diode 5% 3.9V MiniMELF	DIOMELF3515N_MiniMelf	D_BZV55C3V9_08-7845	Not Fitted	BZV55C3V9
08-4149	V517	08-4149 - Z-Diode39V MiniMELF	MiniMELF_Diode	D_TZMC39GS08_08-4149	Not Fitted	TZMC39GS08
08-1107	V518	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	SOD80_DO213AA_MLL34_MiniMelf	LL4150_08-1107	Fitted	LL4150
08-1107	V600	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	MiniMELF_Diode	LL4150_08-1107	Fitted	LL4150
08-1507	V700	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Fitted	BAV199
08-0275	V701	08-0275 - SIPMOS Small-Signal-Transistor	SOT23-3L	M_BSS84_08-0275	Fitted	BSS84P
08-1507	V702	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Fitted	BAV199
08-0503	V703	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-1507	V704	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Fitted	BAV199
08-0275	V705	08-0275 - SIPMOS Small-Signal-Transistor	SOT23-3L	M_BSS84_08-0275	Fitted	BSS84P
08-1507	V706	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Fitted	BAV199
08-0503	V707	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-1152	V900	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0	SOT23-3L	T_BCX71H_08-1152	Fitted	BCX71H
08-0503	V901	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-0749	V902	08-0749 - Z-Diode 12V Minimelf	MiniMELF_Diode	D_Z12V _08-0749	Fitted	12V
08-4505	V903	08-4505 - Z-Diode 6.8V Minimelf	MiniMELF_Diode	D_Z6.8V _08-4505	Fitted	6.8V
08-0749	V904	08-0749 - Z-Diode 12V Minimelf	MiniMELF_Diode	D_Z12V _08-0749	Fitted	12V

08-0503	V905	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-1152	V906	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0	SOT23-3L	T_BCX71H_08-1152	Fitted	BCX71H
08-0503	V907	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-0503	V908	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-8479	V909	08-8479 - High Power Infrared Emitter (850 nm)	LED_OSRAM_SFH4059	SFH 4059-QS_08-8479	Fitted	SFH 4059
08-0180	V910	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Fitted	BC817-40
08-1107	V911	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	SOD80_DO213AA_MLL34_MiniMelf	LL4150_08-1107	Fitted	LL4150
08-0275	V912	08-0275 - SIPMOS Small-Signal-Transistor	SOT23-3L	M_BSS84_08-0275	Fitted	BSS84P
08-0275	V913	08-0275 - SIPMOS Small-Signal-Transistor	SOT23-3L	M_BSS84_08-0275	Fitted	BSS84P
08-0503	V914	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-1152	V1000	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0	SOT23-3L	T_BCX71H_08-1152	Fitted	BCX71H
08-0503	V1001	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-1507	V1002	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Fitted	BAV199
08-0844	V1003	08-0844_TVS_bidirectional_SMT_9.3A_40V	SMB_DO214AA_NOPOLARITY	D_TVS_40V_bidirectional_08-0844	Fitted	TVS_40V
08-0180	V1004	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Fitted	BC817-40
08-0503	V1005	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-1152	V1006	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0	SOT23-3L	T_BCX71H_08-1152	Fitted	BCX71H
08-0180	V1007	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Not Fitted	BC817-40
08-0180	V1008	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Not Fitted	BC817-40
08-1507	V1009	08-1507 - Low-leakage double diode 75V 0.140A SOT2	SOT23-3L	D_BAV199_08-1507	Not Fitted	BAV199
08-0503	V1010	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Not Fitted	BSS123
08-0180	V1011	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Not Fitted	BC817-40
08-0593	V1100	08-0593 - PNP General Purpose Transistor 45V 500mA	SOT23-3L	T_BC807-40_08-0593	Fitted	BC807-40
08-0180	V1101	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Fitted	BC817-40
08-0503	V1102	08-0503 - N-Channel 100V (D-S) MOSFET	SOT23-3L	M_BSS123_08-0503	Fitted	BSS123
08-0180	V1103	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	SOT23-3L	T_BC817-40_08-0180	Fitted	BC817-40
08-8481	V1200	08-8481 - TVS Diode Bidirectional, 300V, 1500W, SMC	SMC_DO-214AB_BIDIRECTIONAL	D_SMCJ300CA_08-8481	Fitted	SMCJ300CA
08-3066	V1201	08-3066 - SMD TVS Diode, SMA	SMA_DO-214AC	D_SMAJ15A_08-3066	Fitted	SMAJ15A
08-0653	V1202	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_	SOT23	M_2N7002L_08-0653	Fitted	2N7002L
08-1120	V1212	08-1120 - Diode_AKKA_1fach_SOT23_0.12A_40V_0.2W	SOT23-3L	D_Diode_AKKA_40V_BAS40-05_08-1120	Fitted	BAS40-05
08-0653	V1214	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_	SOT23	M_2N7002L_08-0653	Fitted	2N7002L
08-0653	V1216	08-0653_N-FET_Diode_1fach_SMT_SOT23_0.115A_60V_	SOT23	M_2N7002L_08-0653	Fitted	2N7002L
05-0452	X1	05-0452 - Messpunkt Messing gedreht	Measure Point 2mm	Messpunkt_gedreht_05-0452	Fitted	Messpunkt
05-0452	X2	05-0452 - Messpunkt Messing gedreht	Measure Point 2mm	Messpunkt_gedreht_05-0452	Fitted	Messpunkt
05-0452	X3	05-0452 - Messpunkt Messing gedreht	Measure Point 2mm	Messpunkt_gedreht_05-0452	Fitted	Messpunkt
05-0452	X4	05-0452 - Messpunkt Messing gedreht	Measure Point 2mm	Messpunkt_gedreht_05-0452	Fitted	Messpunkt
03-0084	X100	03-0084 - SL_1x3p_V_RM2.54	SL1x3_V_RM2.54	SL_1x3p_V_RM2.54_03-0084	Fitted	SL_1x3p_V_RM2.54
03-0088-9	X101	03-0088-9 - SL_1x2p_V_RM2.54	SL1x2_V_RM2.54	SL_1x2p_V_RM2.54_03-0088-9	Fitted	SL_1x2p_V_RM2.54
03-0086_1	X102	03-0086_1 - SL_2x4p_V_RM2.54	Header2x4_V_RM2.54 - WithNPTHs	SL_2x4p_V_RM2.54_03-0086_1	Fitted	SL_2x4p_V_RM2.54
03-3185	X103	03-3185 - SL_1x1p_V_RM2.54	SL1x1_V_RM2.54	SL_1x1p_V_RM2.54_03-3185	Fitted	SL_1x1p_V_RM2.54
03-3185	X104	03-3185 - SL_1x1p_V_RM2.54	SL1x1_V_RM2.54	SL_1x1p_V_RM2.54_03-3185	Fitted	SL_1x1p_V_RM2.54
24-2556	X200	24-2556 - SW_1x2p_V_RM1.50	Conectronics_C150401-02	SW_1x2p_V_RM1.50_4-2556	Fitted	SW_1x2p_V_RM1.50
24-2556	X201	24-2556 - SW_1x2p_V_RM1.50	Conectronics_C150401-02	SW_1x2p_V_RM1.50_4-2556	Fitted	SW_1x2p_V_RM1.50
24-2556	X202	24-2556 - SW_1x2p_V_RM1.50	Conectronics_C150401-02	SW_1x2p_V_RM1.50_4-2556	Fitted	SW_1x2p_V_RM1.50
24-1999	X402	24-1999 - Schraubklemme_1x3p_180°_RM5.08	conectronics_N508257_3P_180°_RM5.08	Schraubklemme_1x3p_RM5.08_24-1999	Fitted	Schraubklemme
05-4686	X500	05-4686 - Befestigungselement Feder, SMT	BATTERIEKONTAKTFEDER_SMT_LIEGEND	OG-503040_05-4686	Fitted	OG-503040
05-4686	X501	05-4686 - Befestigungselement Feder, SMT	BATTERIEKONTAKTFEDER_SMT_LIEGEND	OG-503040_05-4686	Fitted	OG-503040
05-4686	X502	05-4686 - Befestigungselement Feder, SMT	BATTERIEKONTAKTFEDER_SMT_LIEGEND	OG-503040_05-4686	Not Fitted	OG-503040
03-0086_1	X600	03-0086_1 - SL_2x4p_V_RM2.54	Header2x4_V_RM2.54 - WithNPTHs	SL_2x4p_V_RM2.54_03-0086_1	Fitted	SL_2x4p_V_RM2.54
03-3185	X601	03-3185 - SL_1x1p_V_RM2.54	SL1x1_V_RM2.54	SL_1x1p_V_RM2.54_03-3185	Fitted	SL_1x1p_V_RM2.54
03-3185	X602	03-3185 - SL_1x1p_V_RM2.54	SL1x1_V_RM2.54	SL_1x1p_V_RM2.54_03-3185	Fitted	SL_1x1p_V_RM2.54
24-1999	X901	24-1999 - Schraubklemme_1x3p_180°_RM5.08	conectronics_N508257_3P_180°_RM5.08	Schraubklemme_1x3p_RM5.08_24-1999	Fitted	Schraubklemme
24-1999	X1000	24-1999 - Schraubklemme_1x3p_180°_RM5.08	conectronics_N508257_3P_180°_RM5.08	Schraubklemme_1x3p_RM5.08_24-1999	Fitted	Schraubklemme
03-0021	X1100	03-0021 - SL_2x7p_V_RM2.54	Header2x7_V_RM2.54	SL_2x7p_V_RM2.54_03-0021	Fitted	2x7p_V_RM2.54
03-0041	X1102	03-0041 - SL_2x2p_V_RM2.54	Header2x2_V_RM2.54	SL_2x2p_V_RM2.54_03-0041	Fitted	SL_2x2p_V_RM2.54
88-0764	X1103	88-0764- BL_1x15p_V_RM2.54_female	BL_1x15p_V_PITCH2.54mm	BL_1x15p_V_88-0764	Fitted	BL_1x15p_V_RM2.54_coded
24-1999	X1200	24-1999 - Schraubklemme_1x3p_180°_RM5.08	conectronics_N508257_3P_180°_RM5.08	Schraubklemme_1x3p_RM5.08_24-1999	Fitted	Schraubklemme



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Legend

Customer: MetCom Systems GmbH MetCom Systems GmbH Dynamostrasse 13 68165 Mannheim, Germany		Project Name: MCS301-01_V1.3_mit Flicker.PcbDoc	Variant: Variante_Vollbestueckt
	Last Change: 21.03.2019	BMK Proj. Name: sol633.00rd1	Designed by: R.Reinert	SCALE: 1.00
	Revision No.: Ver1.3	BMK PCB No.: 15-7352-4	Checked by: P.Ohlemueller	Date: 21.03.2019 Time: 09:09:49
	Design Path:			

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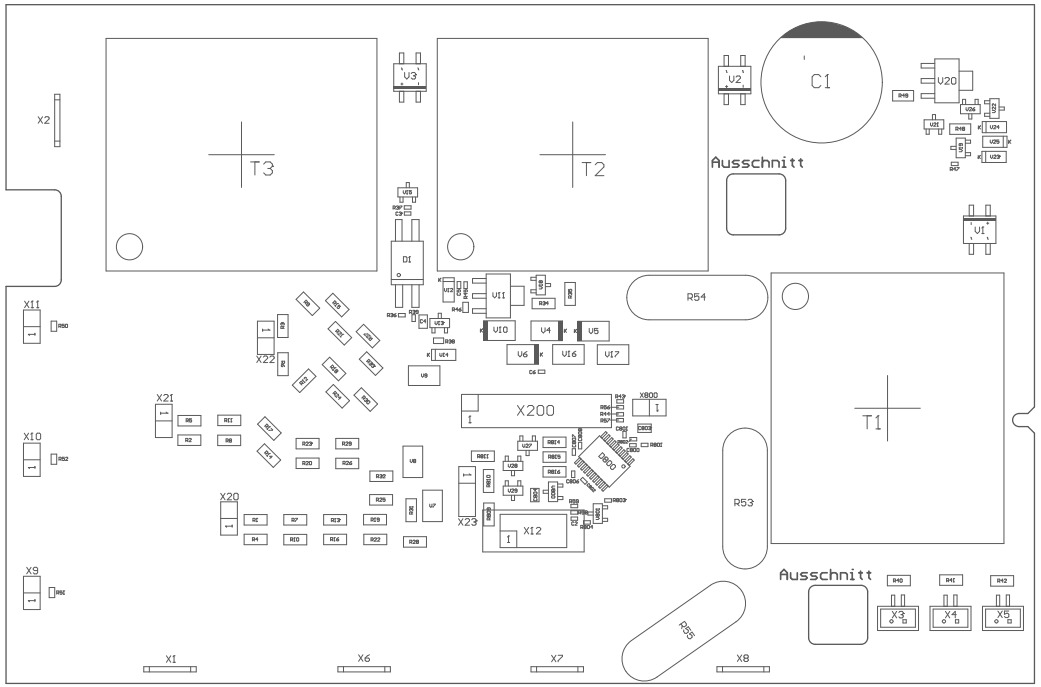
Power supply-O1 BOM V1.3

Designator	Quantity	Partnumber	Description	Comment
C1	1	32-4411	32-4411 - THT Elko RM7.5 - 1800µF 35V_geschnitten	1800µF/35V
C3	1	02-1887	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V
C4	1	02-3016	02-3016 - SMD Capacitor 0805 1µF 50V Y5V	1µF/50V
C5	1	02-1197	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V
C9	1	02-4561	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V
D1	1	11-8673-1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F
PCB1	1	15-7352-4	15-7352-4 - PCB MetCom Messwandler	PCB MetCom Messswandler
R1, R2, R3, R7, R8, R9, R13, R14, R15, R19, R20, R21, R25, R26, R27, R31, R32, R33	18	01-0672-2	01-0672-2_1 - SMD Resistor MiniMelf 0.25W 1%	22K
R4, R5, R6, R10, R11, R12, R16, R17, R18, R22, R23, R24, R28, R29, R30, R34, R35, R40, R41, R42	20	01-0663_1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R36	1	01-1907	01-1907 - SMD Resistor 0402 0.063W 1%	10k
R37	1	01-1905	01-1905 - SMD Resistor 0402 0.063W 1%	100k
R39	1	01-1927	01-1927 - SMD Resistor 0402 0.063W 1%	1M
R43, R44	2	01-1890	01-1890 - SMD Resistor 0402 0.063W 1%	0R
R46	1	01-0080	01-0080 - SMD Resistor 0603 0.1W 5%	0R
R66	1	01-1911	01-1911 - SMD Resistor 0402 0.063W 1%	1k
R67	1	01-0073	01-0073 - SMD Resistor 1206 0.25W 5%	1k
R68	1	01-1447	01-1447 - SMD Resistor 1206 0.25W 1%	1R
T1, T2, T3	3	04-6474	04-6474 - Trafo_HAHN_V22262 mit 2 Wicklungen	V22262
T4, T5, T6	0	04-3049	04-3049 - Stromwandler 110H 6A 115Rdc	T60404-E4622-X501
T4, T5, T6	3	04-3050	04-3050 - Stromwandler 110H 10A 115Rdc	ZMCT182
V1, V2, V3	3	08-1108	08-1108 - Diodennetzwerk 400V 0.5A SMD	MB4S
V4, V5, V6, V10	4	08-1092	08-1092 - SMA Gleichrichter 1000V 1A	S1M
V7, V8, V9, V16, V17	5	08-8480	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA
V11	1	08-8613	08-8613 - N-Channel QFET MOSFET 800V 0.2A	FQT1N80TF_WS
V13, V18, V24, V25	4	08-0621-3	08-0621-3 - Low-leakage double diode 75V 0.125A SOT23 0.25W	BAV170
V14	1	08-0604	08-0604 - Z-Diode 5% 12V MiniMELF	BZV55C12V
V15	1	08-0154	08-0154 - PNP General Purpose Transistor 45V 100mA 0,25W	BC857
V22, V29	2	08-0180	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40
V23	1	08-0892	08-0892 - NPN High Power, 80V/1A. SOT223.	BCP56-16
V26, V27, V28	3	08-3361	08-3361 - Small Signal Zener Diode, MiniMELF	TZMC18
X2	1	03-4353_1	03-4353_1 -Faston_6.3mm_stehend_RM5.00	Faston 1p
X200	1	03-2738	03-2783 - SSL_2x9p_V_RM2.54_Stapelhöhe=28mm	SSL_2x9p_V_RM2.54



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Legend

Customer: MetCom Systems GmbH Marie-Curie-Strasse 19 68219 Mannheim, Germany		Project Name: MCS301-02_V1.1_mit Flicker.PcbDoc	Variant: [No Variations]
	Last Change: 20.03.2019	BMK Proj. Name: sol634.00rb1 / Designed by: R.Reinert	SCALE: 1.03
	Revision No.: Ver1.1	BMK PCB No.: 15-7353-1 / Checked by: P.Ohlemueller	Date: 20.03.2019 Time: 14:26:00
	Design Path:		

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Power supply - O2 -BOM

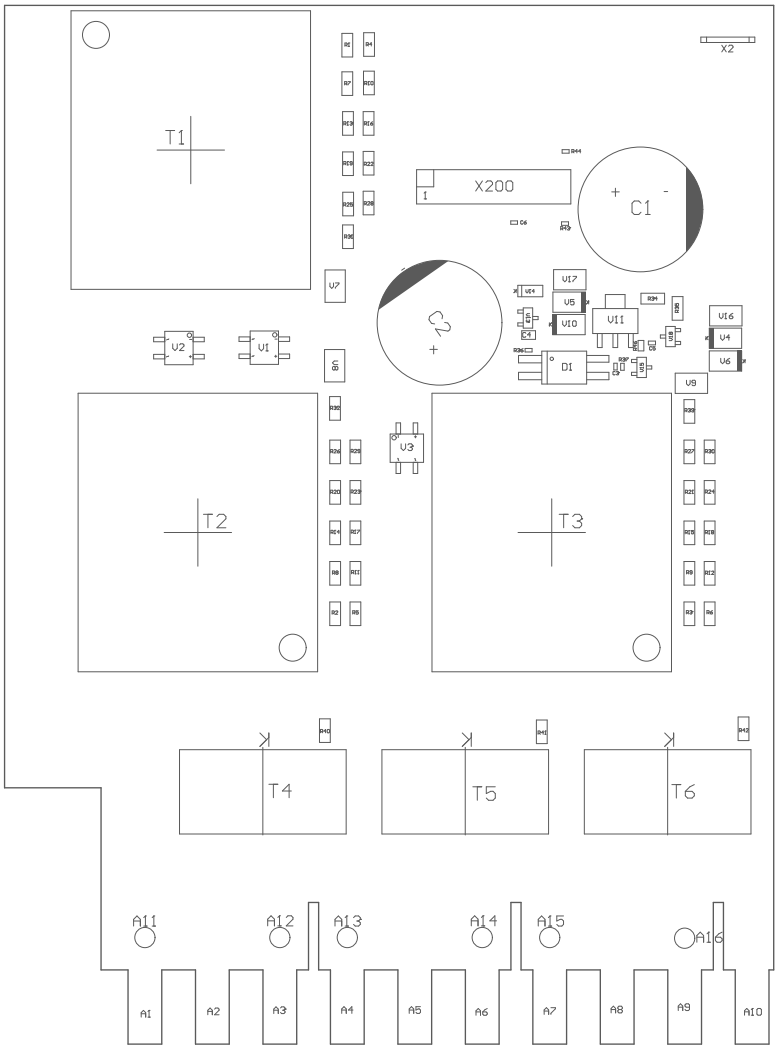
Designator	Partnumber	Quantity	Description	Comment
C1	32-4397	1	32-4397 - THT Elko RM7.5 - 1800µF 35V_geschnitten	1800µF/35V
C2	02-4561	1	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V
C3	02-1887	1	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V
C4	02-3016	1	02-3016 - SMD Capacitor 0805 1µF 50V Y5V	1µF/50V
C5	02-1197	1	02-1197 - SMD Capacitor 0402 1nF 50V X7R	1nF/50V
C6	02-4561	1	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V
C800	02-4561	1	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V
C801	02-4561	1	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V
C802	02-4561	1	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF/50V
C803	02-4679	1	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V
C804	02-4679	1	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF/25V
C806	02-1887	1	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V
C807	02-1887	1	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V
C808	02-1887	1	02-1887 - SMD Capacitor 0402 100pF 50V NP0	100pF/50V
D1	11-8673-1	1	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F
D800	07-4373	1	07-4373 - STM32F030F4P6 ValueLine ARMbased 32bit MCU with Flash, timers, ADC, CommInterface	STM32F030F4P6
PCB1	15-7353-1	1	15-7353-1 - PCB MetCom Direktzähler	PCB MetCom Direktzähler
R1	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R10	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R11	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R12	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R13	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R14	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R15	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R16	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R17	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R18	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R19	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R2	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R20	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R21	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R22	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R23	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R24	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R25	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R26	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R27	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R28	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R29	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R3	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R30	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R31	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R32	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R33	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R34	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R35	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R36	01-1907	1	01-1907 - SMD Resistor 0402 0.063W 1%	10k
R37	01-1911	1	01-1911 - SMD Resistor 0402 0.063W 1%	1k
R38	01-0960	1	01-0960 - SMD Resistor 0603 0.1W 1%	100k
R39	01-1927	1	01-1927 - SMD Resistor 0402 0.063W 1%	1M
R4	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R40	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R41	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R42	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R43	01-1890	1	01-1890 - SMD Resistor 0402 0.063W 1%	0R
R44	01-1890	1	01-1890 - SMD Resistor 0402 0.063W 1%	0R
R45	01-1927	1	01-1927 - SMD Resistor 0402 0.063W 1%	1M

Power supply - O2 -BOM

Designator	Partnumber	Quantity	Description	Comment
R46	01-0080	1	01-0080 - SMD Resistor 0603 0.1W 5%	0R
R47	01-1911	1	01-1911 - SMD Resistor 0402 0.063W 1%	1k
R48	01-0073	1	01-0073 - SMD Resistor 1206 0.25W 5%	1k
R49	01-1447	1	01-1447 - SMD Resistor 1206 0.25W 1%	1R
R5	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R50	01-0080	1	01-0080 - SMD Resistor 0603 0.1W 5%	0R
R51	01-0080	1	01-0080 - SMD Resistor 0603 0.1W 5%	0R
R52	01-0080	1	01-0080 - SMD Resistor 0603 0.1W 5%	0R
R53	31-0300_1_2	1	31-0300_1_2 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	460V_Kombi
R54	31-0300_1_2	1	31-0300_1_2 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	460V_Kombi
R55	31-0300_1_2	1	31-0300_1_2 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	460V_Kombi
R56	01-1890	1	01-1890 - SMD Resistor 0402 0.063W 1%	0R
R57	01-1890	1	01-1890 - SMD Resistor 0402 0.063W 1%	0R
R58	01-1908	1	01-1908 - SMD Resistor 0402 0.063W 1%	10R/200ppm
R59	01-1911	1	01-1911 - SMD Resistor 0402 0.063W 1%	1k
R6	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R7	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R8	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
R801	01-1905	1	01-1905 - SMD Resistor 0402 0.063W 1%	100k
R802	01-1905	1	01-1905 - SMD Resistor 0402 0.063W 1%	100k
R803	01-1911	1	01-1911 - SMD Resistor 0402 0.063W 1%	1k
R804	01-1890	1	01-1890 - SMD Resistor 0402 0.063W 1%	0R
R809	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R810	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R811	01-0663_1	1	01-0663_1 - SMD Resistor MiniMelf 0.25W 1%	100k/50ppm
R814	01-1126	1	01-1126 - SMD Resistor MiniMelf 0.25W 1%	3.32k
R815	01-1126	1	01-1126 - SMD Resistor MiniMelf 0.25W 1%	3.32k
R816	01-1126	1	01-1126 - SMD Resistor MiniMelf 0.25W 1%	3.32k
R9	01-0672-2	1	01-0672-2 - SMD Resistor MiniMelf 0.25W 1%	22K
T1	04-6474	1	04-6474 - Trafo_HAHN_V22262 mit 2 Wicklungen	V22262
T2	04-6474	1	04-6474 - Trafo_HAHN_V22262 mit 2 Wicklungen	V22262
T3	04-6474	1	04-6474 - Trafo_HAHN_V22262 mit 2 Wicklungen	V22262
V1	08-1108	1	08-1108 - Diodennetzwerk 400V 0.5A SMD	MB4S
V10	08-1092	1	08-1092 - SMA Gleichrichter 1000V 1A	S1M
V11	08-8613	1	08-8613 - N-Channel QFET MOSFET 800V 0.2A	FQT1N80TF_WS
V12	08-0604	1	08-0604 - Z-Diode 5% 12V MiniMELF	BZV55C12V
V13	08-0621-3	1	08-0621-3 - Low-leakage double diode 75V 0.125A SOT23 0.25W	BAV170
V14	08-0604	1	08-0604 - Z-Diode 5% 12V MiniMELF	BZV55C12V
V15	08-0154	1	08-0154 - PNP General Purpose Transistor 45V 100mA 0,25W	BC857
V16	08-8480	1	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA
V17	08-8480	1	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA
V18	08-0621-3	1	08-0621-3 - Low-leakage double diode 75V 0.125A SOT23 0.25W	BAV170
V19	08-0180	1	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40
V2	08-1108	1	08-1108 - Diodennetzwerk 400V 0.5A SMD	MB4S
V20	08-0892	1	08-0892 - NPN High Power, 80V/1A. SOT223.	BCP56-16
V21	08-0621-3	1	08-0621-3 - Low-leakage double diode 75V 0.125A SOT23 0.25W	BAV170
V22	08-0621-3	1	08-0621-3 - Low-leakage double diode 75V 0.125A SOT23 0.25W	BAV170
V23	08-3361	1	08-3361 - Small Signal Zener Diode, MiniMELF	TZMC18
V24	08-3361	1	08-3361 - Small Signal Zener Diode, MiniMELF	TZMC18
V25	08-3361	1	08-3361 - Small Signal Zener Diode, MiniMELF	TZMC18
V26	08-0180	1	08-0180 - NPN General Purpose Amplifier (45V/1.5A)	BC817-40
V27	08-1274	1	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40-04	BAS40-04

Power supply - O2 -BOM

Designator	Partnumber	Quantity	Description	Comment
V28	08-1274	1	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40-04	BAS40-04
V29	08-1274	1	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40-04	BAS40-04
V3	08-1108	1	08-1108 - Diodennetzwerk 400V 0.5A SMD	MB4S
V4	08-1092	1	08-1092 - SMA Gleichrichter 1000V 1A	S1M
V5	08-1092	1	08-1092 - SMA Gleichrichter 1000V 1A	S1M
V6	08-1092	1	08-1092 - SMA Gleichrichter 1000V 1A	S1M
V7	08-8480	1	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA
V8	08-8480	1	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA
V800	08-1274	1	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40-04	BAS40-04
V801	08-1274	1	08-1274_Diode_AKAK_1fach_SMT_SOT23_0.2A_40V_0.2W_BAS40-04	BAS40-04
V9	08-8480	1	08-8480 - TVS Diode Bidirectional, 300V, 400W, SMA	SMAJ300CA
X1	03-4353_1	1	03-4353_1 -Faston_6.3mm_stehend_RM5.00	Faston 1p
X10	03-0088-9	1	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54
X11	03-0088-9	1	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54
X12	03-0086_1	1	03-0086_1 - SL_2x4p_V_RM2.54	SL_2x4p_V_RM2.54
X2	03-4353_1	1	03-4353_1 -Faston_6.3mm_stehend_RM5.00	Faston 1p
X20	03-0088	1	03-0088 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54
X200	03-2738	1	03-2783 - SSL_2x9p_V_RM2.54_Stapelhöhe=28mm	SSL_2x9p_V_RM2.54
X21	03-0088-9	1	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54
X22	03-0088-9	1	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54
X23	03-0084	1	03-0084 - SL_1x3p_V_RM2.54	SL_1x3p_V_RM2.54
X3	24-2556	1	24-2556 - SW_1x2p_V_RM1.50	SW_1x2p_V_RM1.50
X4	24-2556	1	24-2556 - SW_1x2p_V_RM1.50	SW_1x2p_V_RM1.50
X5	24-2556	1	24-2556 - SW_1x2p_V_RM1.50	SW_1x2p_V_RM1.50
X6	03-4353_1	1	03-4353_1 -Faston_6.3mm_stehend_RM5.00	Faston 1p
X7	03-4353_1	1	03-4353_1 -Faston_6.3mm_stehend_RM5.00	Faston 1p
X8	03-4353_1	1	03-4353_1 -Faston_6.3mm_stehend_RM5.00	Faston 1p
X800	03-0088-9	1	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54
X9	03-0088-9	1	03-0088-9 - SL_1x2p_V_RM2.54	SL_1x2p_V_RM2.54



Assembly Top

Legend

Customer: MetCom Systems GmbH		Project Name: MCS301-01B_V1.2.PcbDoc	Variant: Variante_Teilbestueckt
MetCom Systems GmbH — Dynamostrasse 13, 68165 Mannheim, Germany	Last Change: 11.05.2017	BMK Proj. Name: sol633.OOrc1 — Designed by: R.Reinert	SCALE: 1.00
	Revision No.: Ver1.2	BMK PCB No.: 15-7352-3 — Checked by: P.Ohlemueller	Date: 11.05.2017 Time: 08:02:15
	Design Path:		

BMK electronic solutions

NMi

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Assembly Bottom
Legende
Layout
BMK
electronic solutions
MetCom
Systems GmbH
68165 Mannheim, Germany

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
C1, C2	2	32-4411	CAPE 1,8mF 20% 35V 5000h@105°C RM7,5 THT lowImp 28mR Z 19x20,5mm	PANASONIC (F)# EEUFC1V182S RUBYCON (F)# 35YXG1800M18x20
C3	1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101
C4	1	02-3016	CAPC 1µF +80%-20% 50V Y5V 0805 SMT	TAIYO YUDEN (F)# UMK212F105ZG-T TDK (F)# C2012Y5V1H105ZT-S SAMWHA (F)# CS2012X7R105K500NRE
C5	1	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT	Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102
C6	1	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Murata (F)# GRM155R71H104KE14D
D1	1	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT	SHARP (A)# PC123X1YUP0F SHARP (F)# PC123Y13FP9F SHARP (A)# PC123ZY1J00F
PCB1	1	15-7352-3	PCB Metcom MCS301-O1 V1.2 Messw chem.NiAu TG>= 130 rigid DK 1.2 4x panel	Würth-Nieder (F)# Würth-Nieder (F)# 453542 Würth-Nieder (F)# 456225
R1, R13, R14, R15, R19, R2, R20, R21, R25, R26, R27, R3, R31, R32, R33, R7, R8, R9	18	01-0672-2	RES 22K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM02040C2202FB000 VISHAY (F)# SMM02040C2202FB300
R10, R11, R12, R16, R17, R18, R22, R23, R24, R28, R29, R30, R34, R35, R4, R40, R41, R42, R5, R6	20	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM02040C1003FB000 VISHAY (F)# SMM02040C1003FB300
R36	1	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL YAGEO (F)# RC0402FR-1310KL
R37	1	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL
R38, R39, R45, V12, X1	5	n.b.	nicht bestückt	
R43, R44	2	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL
R46	1	01-0080	RES 0R -% 0,1W xppm 0603 SMT	ASJ (G)# CR16-000-ZL YAGEO (F)# RC0603JR-070RL YAGEO (F)# RC0603JR-130RL
RHB0	1	80-4000	Hilfstoffe SMT Für Kalkulation	

RHB1	1	80-4001	Hilfstoffe THT□ Für Kalkulation	
RHB2	1	80-4002	Hilfstoffe THT□ Für Kalkulation	
T1, T2, T3	3		TRAN BV EI 3042083 EL30 THT	Zeichnung (F)# HAHN EI 3042083
T4, T5, T6	3	04-3049	COIL 110H 30% 115R 6A □ 24,5x12,3x28,8mm THT	VAC (F)# T60404-E4622-X50182
T4_B, T5_B, T6_B	3	05s1732-met	Drahtbrücke für sol633 □ 1mm² THT	Zeichnung (F)# MM0014, Rev. A vom 20.02.2017
V1, V2, V3	3	08-1108	GL MB4S TO269AA Gleichrichter□ 280V 0.5A SMD -55/+150°C□ Brückengleichrichter□ Texte 08-1108-1	VISHAY (F)# MB4S-E3/80
V10, V4, V5, V6	4	08-1092	DIO US1M 1kV 1A uni □ SMA SMT	VISHAY (F)# US1M-E3/61T
V11	1	08-8613	T FQT1N80TF_WS N-Kanal 800V□ SOT223 SMT 200mA	FAIRCHILD (F)# FQT1N80TF_WS
V13, V18	2	08-0621-3	DIO BAV170 60V 125mA uni □ SOT23 SMT	DIODES (F)# BAV170-7-F□ NXP (F)# BAV170□ NXP (F)# BAV170,215□ Nexperia (F)# BAV170,215
V14	1	08-0604	DIOZ BZV55C12 12V 250mA □ Minimelf SMT	VISHAY (F)# TZMC12-GS08□ VISHAY (F)# TZMC12-GS18
V15	1	08-0154	T BC857C PNP 45V 100mA □ SOT23 SMT	PHILIPS (V)# BC857C□ INFINEON (F)# BC857C□ LRC (F)# LBC857CLT1G□ NXP (F)# BC857C□ Nexperia (F)# BC857C,215
V16, V17, V7, V8, V9	5	08-8480	DIO SMAJ300CA 300V 0,8A bi □ DO214AC SMT	LITTELFUSE (F)# SMAJ300CA
WIP	1	18-3442	BMK-Label 5x5mm Polyester weiß□ 2D-WIP-Label BMK-Standard□ RT:05-8219	Brady (F)# THT-B727-5X5-LINER□ Brady (G)# THT-B727-7X7
WZ_01	1	61-5211-1	SMT-Schablone sol633.00rc1□ MCS301-O1 V1.2	
X2	1	03-4353	CONN 1p 180° M Flachstecker □ RM5 THT	Vogt AG Verb (F)# 3866A.6(8)MS
X200	1	03-2783	SSL 2x9p 180°□ 2,54mm pitch THT Stapelhöhe□ 28,0mm	Conectronics (F)# A254102-1801225BO-8.00/3.00//28.0

Einbauplatz	Qty	Teil	Bezeichnung	Hersteller: F = Freigegeben T = technische Alternative V = Veraltet A = Abgekündigt G = Gesperrt
C1, C2	2	32-4411	CAPE 1,8mF 20% 35V 5000h@105°C RM7,5 THT lowImp 28mR Z 19x20,5mm	PANASONIC (F)# EEUFC1V182S RUBYCON (F)# 35YXG1800M18x20
C3	1	02-1887	CAPC 100pF 5% 50V NPO 0402 SMT	YAGEO (F)# CC0402JPNPO9BN101 YAGEO (F)# CC0402JRNPO9BN101
C4	1	02-3016	CAPC 1µF +80%-20% 50V Y5V 0805 SMT	TAIYO YUDEN (F)# UMK212F105ZG-T TDK (F)# C2012Y5V1H105ZT-S SAMWHA (F)# CS2012X7R105K500NRE
C5	1	02-1197	CAPC 1nF 10% 50V X7R 0402 SMT	Murata (F)# GRM155R71H102KA01D Murata (F)# GRM155R71H102KA01J YAGEO (F)# CC0402KRX7R9BB102
C6	1	02-4561	CAPC 100nF 10% 50V X7R 0402 SMT	TAIYO YUDEN (F)# UMK105B7104KV-FR Murata (F)# GRM155R71H104KE14D
D1	1	11-8673-1	Optokoppler PC123X1YUP0F 50mA DIP4SMD SMT	SHARP (A)# PC123X1YUP0F SHARP (F)# PC123Y13FP9F SHARP (A)# PC123ZY1J00F
PCB1	1	15-7352-3	PCB Metcom MCS301-O1 V1.2 Messw chem.NiAu TG>= 130 rigid DK 1.2 4x panel	Würth-Nieder (F)# Würth-Nieder (F)# 453542 Würth-Nieder (F)# 456225
R1, R13, R14, R15, R19, R2, R20, R21, R25, R26, R27, R3, R31, R32, R33, R7, R8, R9	18	01-0672-2	RES 22K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM02040C2202FB000 VISHAY (F)# SMM02040C2202FB300
R10, R11, R12, R16, R17, R18, R22, R23, R24, R28, R29, R30, R34, R35, R4, R40, R41, R42, R5, R6	20	01-0663	RES 100K 1% 0,25W 50ppm Minimelf SMT	VISHAY (F)# SMM02040C1003FB000 VISHAY (F)# SMM02040C1003FB300
R36	1	01-1907	RES 10K 1% 0,063W 100ppm 0402 SMT	VISHAY (F)# CRCW040210K0FKED YAGEO (F)# RC0402FR-0710KL YAGEO (F)# RC0402FR-1310KL
R37	1	01-1905	RES 100K 1% 0,063W 100ppm 0402 SMT	KOA (F)# RK73H1ETTP1003F YAGEO (F)# RC0402FR-07100KL YAGEO (F)# RC0402FR-13100KL
R38, R39, R45, V12, X1	5	n.b.	nicht bestückt	
R43, R44	2	01-1890	RES 0R x% 0,063W 200ppm 0402 SMT	VISHAY (F)# CRCW040200000Z0ED YAGEO (F)# RC0402JR-070RL YAGEO (F)# RC0402JR-130RL
R46	1	01-0080	RES 0R -% 0,1W xppm 0603 SMT	ASJ (G)# CR16-000-ZL YAGEO (F)# RC0603JR-070RL YAGEO (F)# RC0603JR-130RL
RHB0	1	80-4000	Hilfstoffe SMT Für Kalkulation	

RHB1	1	80-4001	Hilfstoffe THT□ Für Kalkulation	
RHB2	1	80-4002	Hilfstoffe THT□ Für Kalkulation	
T1, T2, T3	3		TRAN V22380 □ 40,8x35 THT	Zeichnung (F)# HAHN V22380
T4, T5, T6	3	04-3049	COIL 110H 30% 115R 6A □ 24,5x12,3x28,8mm THT	VAC (F)# T60404-E4622-X50182
T4_B, T5_B, T6_B	3	05s1732-met	Drahtbrücke für sol633 □ 1mm² THT	Zeichnung (F)# MM0014, Rev. A vom 20.02.2017
V1, V2, V3	3	08-1108	GL MB4S TO269AA Gleichrichter□ 280V 0.5A SMD -55/+150°C□ Brückengleichrichter□ Texte 08-1108-1	VISHAY (F)# MB4S-E3/80
V10, V4, V5, V6	4	08-1092	DIO US1M 1kV 1A uni □ SMA SMT	VISHAY (F)# US1M-E3/61T
V11	1	08-8613	T FQT1N80TF_WS N-Kanal 800V□ SOT223 SMT 200mA	FAIRCHILD (F)# FQT1N80TF_WS
V13, V18	2	08-0621-3	DIO BAV170 60V 125mA uni □ SOT23 SMT	DIODES (F)# BAV170-7-F□ NXP (F)# BAV170□ NXP (F)# BAV170,215□ Nexperia (F)# BAV170,215
V14	1	08-0604	DIOZ BZV55C12 12V 250mA □ Minimelf SMT	VISHAY (F)# TZMC12-GS08□ VISHAY (F)# TZMC12-GS18
V15	1	08-0154	T BC857C PNP 45V 100mA □ SOT23 SMT	PHILIPS (V)# BC857C□ INFINEON (F)# BC857C□ LRC (F)# LBC857CLT1G□ NXP (F)# BC857C□ Nexperia (F)# BC857C,215
V16, V17, V7, V8, V9	5		DIO SMAJ70CA 70V 0,8A bi □ DO214AC SMT	LITTELFUSE (F)# SMAJ70CA
WIP	1	18-3442	BMK-Label 5x5mm Polyester weiß□ 2D-WIP-Label BMK-Standard□ RT:05-8219	Brady (F)# THT-B727-5X5-LINER□ Brady (G)# THT-B727-7X7
WZ_01	1	61-5211-1	SMT-Schablone sol633.00rc1□ MCS301-O1 V1.2	
X2	1	03-4353	CONN 1p 180° M Flachstecker □ RM5 THT	Vogt AG Verb (F)# 3866A.6(8)MS
X200	1	03-2783	SSL 2x9p 180°□ 2,54mm pitch THT Stapelhöhe□ 28,0mm	Conectronics (F)# A254102-1801225BO-8.00/3.00//28.0

Doc no	**11028/2-01**
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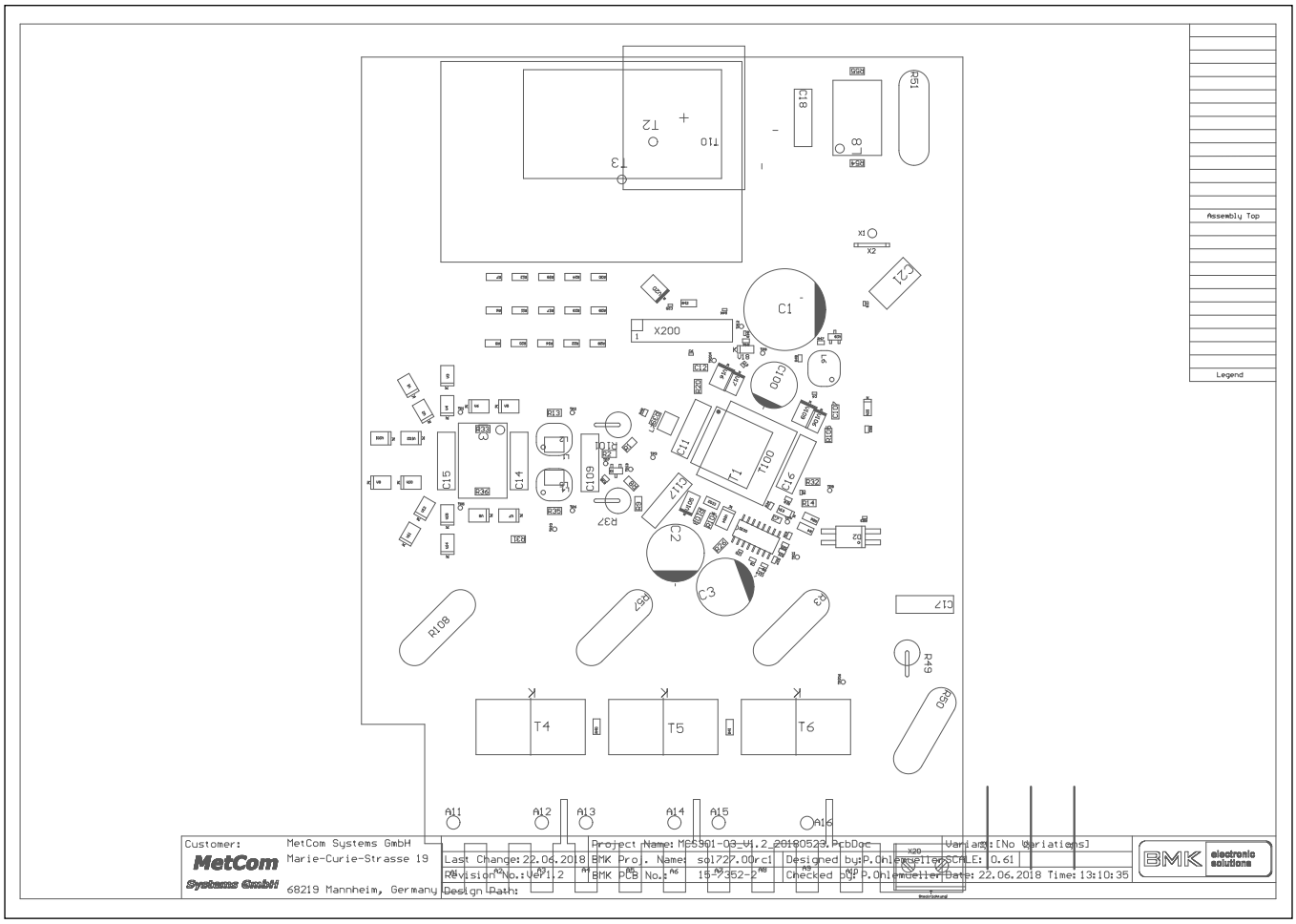

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Designator	Description	LibRef	Fitted	Quantity	Partnumber	PartType
C1	32-4397 - THT Elko RM7.5 - 1800µF 35V_geschnitten	1800µF_35V_THT_32-4397	Fitted	1	32-4397	1800µF/35V
C2	02-3403 - THT D10mm Elko 10µF 400V	10µF_400V_THT_02-3403	Fitted	1	02-3403	10µF/400V
C3	02-3403 - THT D10mm Elko 10µF 400V	10µF_400V_THT_02-3403	Fitted	1	02-3403	10µF/400V
C4	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Fitted	1	02-3514	100nF/50V
C5	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Fitted	1	02-3514	100nF/50V
C6	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-4561	Fitted	1	02-4561	100nF/50V
C7	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF_25V_0805_02-4679	Fitted	1	02-4679	10µF/25V
C8	02-3541 - SMD Capacitor 0603 470nF 50V X7R	470nF_50V_0603_02-3541	Fitted	1	02-3541	470nF/50V
C9	02-0332 - SMD Capacitor 0603 4.7nF 50V X7R	4.7nF_50V_0603_02-0332	Fitted	1	02-0332	4.7nF/50V
C10	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Fitted	1	02-3514	100nF/50V
C11	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Fitted	1	32-0121	10nF/305V/X2
C12	02-5734 - SMD Capacitor 1206 560pF 500V C0G	560pF_500V_1206_02-5734	Fitted	1	02-5734	560pF/500V
C14	32-0121_1 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121_1	Fitted	1	32-0121_1	10nF/305V/X2
C15	32-0121_1 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121_1	Fitted	1	32-0121_1	10nF/305V/X2
C16	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Fitted	1	32-0121	10nF/305V/X2
C100	32-0466 - THT Elko RM5 2200µF 16V	2200µF_16V_RM5_32-0466	Fitted	1	32-0466	2200µF/16V
C102	02-1334 - SMD Capacitor 1206 2.2nF 500V X7R	2.2nF_500V_1206_02-1334	Fitted	1	02-1334	2.2nF/500V
C107	02-5734 - SMD Capacitor 1206 560pF 500V C0G	560pF_500V_1206_02-5734	Fitted	1	02-5734	560pF/500V
C109	32-0121_1 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121_1	Fitted	1	32-0121_1	10nF/305V/X2
C114	02-0322 - SMD Capacitor 0603 1nF 50V X7R	1nF_50V_0603_02-0322	Fitted	1	02-0322	1nF/50V
C117	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Fitted	1	32-0121	10nF/305V/X2
D100		Altair04-900	Fitted	1		Altair04-900
L2	04-4114- Filter WE	Filter_1.2mH_0.28A_04-4114	Fitted	1	04-4114	1.2mH/0.28A
L3	04-5443 - Stromkompensierte Drossel 2x1.8mH 1A	WE-TFC_2x1.8mH_1A_04-5443	Fitted	1	04-5443	2x1.8mH/1A/2x310mR
L5	04-4114- Filter WE	Filter_1.2mH_0.28A_04-4114	Fitted	1	04-4114	1.2mH/0.28A
L6	04-4114- Filter WE	Filter_1.2mH_0.28A_04-4114	Fitted	1	04-4114	1.2mH/0.28A
L7	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476630	Ind_74476630_04-5001	Fitted	1	04-5001	1000µH/30mA
PCB1	15-7352-2 - PCB MetCom Messwandler	PCB_15-7352-2	Fitted	1	15-7352-2	PCB MetCom Messswandler
R1	01-0448 - SMD Resistor 1206 0.25W 1%	1M_1206_01-0448	Fitted	1	01-0448	1M
R2	01-0448 - SMD Resistor 1206 0.25W 1%	1M_1206_01-0448	Fitted	1	01-0448	1M
R3	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Fitted	1	31-0300_1	460V_Kombi
R4	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R5	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R6	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R7	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Fitted	1	31-0300_1	460V_Kombi
R8	01-0448 - SMD Resistor 1206 0.25W 1%	1M_1206_01-0448	Fitted	1	01-0448	1M
R9	01-0448 - SMD Resistor 1206 0.25W 1%	1M_1206_01-0448	Fitted	1	01-0448	1M
R10	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R11	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R12	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R16	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R17	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R18	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R19	01-4545 - SMD Resistor 0603 0.063W 0.1%	33k_0603_01-4545	Fitted	1	01-4545	33k/0.1%/25ppm
R20	01-1046 - SMD Resistor 1206 0.25W 1%	10R_1206_01-1046	Fitted	1	01-1046	10R
R21	01-0905 - SMD Resistor 0603 0.1W 1%	8.2k_0603_01-0905	Fitted	1	01-0905	8.2k
R22	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R23	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R24	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R25	01-0960 - SMD Resistor 0603 0.1W 1%	100k_0603_01-0960	Fitted	1	01-0960	100k
R26	01-1659-1 - SMD Resistor 1206 0.25W 1%	1.5R_1206_01-1659-1	Fitted	1	01-1659-1	1.5R
R27	01-0905 - SMD Resistor 0603 0.1W 1%	8.2k_0603_01-0905	Fitted	1	01-0905	8.2k
R28	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R29	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K

Designator	Description	LibRef	Fitted	Quantity	Partnumber	PartType
R30	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R34	01-1816 - SMD Resistor 0603 0.063W 1%	4.7R_0603_01-1816	Fitted	1	01-1816	4.7R
R37	31-0289 THT Resistor 13x5.7mm 39R 5% 4W zugerichtet	39R_13x5.7mm_31-0289	Fitted	1	31-0289	39R/4W/200ppm
R38	01-0080 - SMD Resistor 0603 0.1W 5%	0R_0603_01-0080	Fitted	1	01-0080	0R
R39	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Fitted	1	01-0160	0R
R40	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R41	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R42	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K
R43	01-1890 - SMD Resistor 0402 0.063W 1%	0R_0402_01-1890	Fitted	1	01-1890	0R
R44	01-1890 - SMD Resistor 0402 0.063W 1%	0R_0402_01-1890	Fitted	1	01-1890	0R
R46	01-0960 - SMD Resistor 0603 0.1W 1%	100k_0603_01-0960	Fitted	1	01-0960	100k
R47	01-0960 - SMD Resistor 0603 0.1W 1%	100k_0603_01-0960	Fitted	1	01-0960	100k
R48	01-0080 - SMD Resistor 0603 0.1W 5%	0R_0603_01-0080	Fitted	1	01-0080	0R
R101	31-0289 THT Resistor 13x5.7mm 39R 5% 4W zugerichtet	39R_13x5.7mm_31-0289	Fitted	1	31-0289	39R/4W/200ppm
R103	01-0384 - SMD Resistor 1206 0.25W 1%	100k_1206_01-0384	Fitted	1	01-0384	100k
R104	01-0384 - SMD Resistor 1206 0.25W 1%	100k_1206_01-0384	Fitted	1	01-0384	100k
R105	01-1046 - SMD Resistor 1206 0.25W 1%	10R_1206_01-1046	Fitted	1	01-1046	10R
R108	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Fitted	1	31-0300_1	460V_Kombi
T1	04-5803 - Trafo_Wuerth_750315367	Trafo_750315367_04-5803	Fitted	1	04-5803	Trafo_750315367
T4	04-3049 - Stromwandler 110H 6A 115Rdc	T60404-E4622-X501_04-3049	Fitted	1	04-3049	T60404-E4622-X501
T5	04-3049 - Stromwandler 110H 6A 115Rdc	T60404-E4622-X501_04-3049	Fitted	1	04-3049	T60404-E4622-X501
T6	04-3049 - Stromwandler 110H 6A 115Rdc	T60404-E4622-X501_04-3049	Fitted	1	04-3049	T60404-E4622-X501
TP1	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP2	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP3	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP4	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP5	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP6	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP7	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP8	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP9	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP10	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP11	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP12	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP13	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP104	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
TP106	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt
V1	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V2	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V3	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V4	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V5	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V6	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V7	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V8	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V9	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V10	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V11	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V12	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V13	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150_08-1107	Fitted	1	08-1107	LL4150
V14	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V15	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V18	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150_08-1107	Fitted	1	08-1107	LL4150
V19	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0.25W_BCX71H	T_BCX71H_08-1152	Fitted	1	08-1152	BCX71H

Designator	Description	LibRef	Fitted	Quantity	Partnumber	PartType
V101	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V102	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M
V104	08-3426_Diode_SMT_SMA_DO214AC_1A_800V_STTH108A	D_Diode_800V_08-3426	Fitted	1	08-3426	800V_1A
V106	08-1093-1 - SMA Gleichrichter 400V 1A	GL_US1G-E35AT_SMA_400V_1A_08-1093-1	Fitted	1	08-1093-1	US1G-E35AT
X1	05-0452 - Messpunkt Messing gedreht	Messpunkt_gedreht_05-0452	Fitted	1	05-0452	Messpunkt
X2	03-4353 -Faston_6.3mm_stehend_RM5.00	Faston_6.3mm_03-4353	Fitted	1	03-4353	Faston 1p
X200	24-2084 - BL_2x9p_V_RM2.54	BL_2x9p_V_RM2.54_24-2084	Fitted	1	24-2084	BL_2x9p_V_RM2.54_DualEntry
C13	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Not Fitted	0	02-3514	100nF/50V
C17	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Not Fitted	0	32-0121	10nF/305V/X2
C18	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Not Fitted	0	32-0121	10nF/305V/X2
C19	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Not Fitted	0	02-3514	100nF/50V
C20	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Not Fitted	0	02-3514	100nF/50V
C21	02-4118 - THT Capacitor Disc RM9.5 2.2nF 500V Y1	2.2nF_500V_RM9.5_02-4118	Not Fitted	0	02-4118	2.2nF/500V/Y1
D1	11-7207 - BU4925G	BU4925G_11-7207	Not Fitted	0	11-7207	BU4925G
D2	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F_11-8673-1	Not Fitted	0	11-8673-1	PC123X1YUP0F
L1	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476630	Ind_74476630_04-5001	Not Fitted	0	04-5001	1000µH/30mA
L4	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476630	Ind_74476630_04-5001	Not Fitted	0	04-5001	1000µH/30mA
L8	04-5443 - Stromkompensierte Drossel 2x1.8mH 1A	WE-TFC_2x1.8mH_1A_04-5443	Not Fitted	0	04-5443	2x1.8mH/1A/2x310mR
R13	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R
R14	01-1046 - SMD Resistor 1206 0.25W 1%	10R_1206_01-1046	Not Fitted	0	01-1046	10R
R15	01-4545 - SMD Resistor 0603 0.063W 0.1%	33k_0603_01-4545	Not Fitted	0	01-4545	33k/0.1%/25ppm
R31	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R
R32	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R
R33	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R
R35	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R
R36	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R
R45	01-0481 - SMD Resistor 0603 0.063W 5%	1k_0603_01-0481	Not Fitted	0	01-0481	1k
R49	31-0289 THT Resistor 13x5.7mm 39R 5% 4W zugerichtet	39R_13x5.7mm_31-0289	Not Fitted	0	31-0289	39R/4W/200ppm
R50	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Not Fitted	0	31-0300_1	460V_Kombi
R51	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Not Fitted	0	31-0300_1	460V_Kombi
R52	01-0884 - SMD Resistor 0603 0.1W 1%	560R_0603_01-0884	Not Fitted	0	01-0884	560R
R53	01-1907 - SMD Resistor 0402 0.063W 1%	10k_0402_01-1907	Not Fitted	0	01-1907	10k
T2	xx-xxxx - Schaltnetzteil 24V 5Watt	SMPS-MW-IRM-05	Not Fitted	0	xx-xxxx	SMPS 24V 5W
T3	xx-xxxx - Schaltnetzteil 24V 15Watt	SMPS-MW-NFM-15	Not Fitted	0	xx-xxxx	SMPS 24V 15W
T100	04-5082_WUERTH_750370134	WUERTH_750370134_04-5082	Not Fitted	0	04-5082	750370134
V16	08-4551 - SMB Schottky Rectifier 80V 2A	D_SK28_08-4551	Not Fitted	0	08-4551	SK28
V17	08-1093-1 - SMA Gleichrichter 400V 1A	GL_US1G-E35AT_SMA_400V_1A_08-1093-1	Not Fitted	0	08-1093-1	US1G-E35AT
V20	08-4551 - SMB Schottky Rectifier 80V 2A	D_SK28_08-4551	Not Fitted	0	08-4551	SK28
V21	08-0026-1 - Z-Diode 5% 18V MiniMELF	D_BZV55C18V_08-0026-1	Not Fitted	0	08-0026-1	BZV55C18V
V105	08-7321 - Z-Diode_BZG03C200_200V_SMA_DO-214AC	D_Z200V_SMA_DO-214AC_08-7321	Not Fitted	0	08-7321	BZG03C200
V109	08-4551 - SMB Schottky Rectifier 80V 2A	D_SK28_08-4551	Not Fitted	0	08-4551	SK28
X3	24-1999 - Schraubklemme_1x3p_180°_RM5.08	Schraubklemme_1x3p_RM5.08_24-1999	Not Fitted	0	24-1999	Schraubklemme

Designator	Description	LibRef	Fitted	Quantity	Partnumber	PartType	
C1	32-4397 - THT Elko RM7.5 - 1800µF 35V_geschnitten	1800µF_35V_THT_32-4397	Fitted	1	32-4397	1800µF/35V	
C2	02-3403 - THT D10mm Elko 10µF 400V	10µF_400V_THT_02-3403	Fitted	1	02-3403	10µF/400V	
C3	02-3403 - THT D10mm Elko 10µF 400V	10µF_400V_THT_02-3403	Fitted	1	02-3403	10µF/400V	
C4	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Fitted	1	02-3514	100nF/50V	
C5	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Fitted	1	02-3514	100nF/50V	
C6	02-4561 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-4561	Fitted	1	02-4561	100nF/50V	
C7	02-4679 - SMD Capacitor 0805 10µF 25V X5R	10µF_25V_0805_02-4679	Fitted	1	02-4679	10µF/25V	
C8	02-3541 - SMD Capacitor 0603 470nF 50V X7R	470nF_50V_0603_02-3541	Fitted	1	02-3541	470nF/50V	
C9	02-0332 - SMD Capacitor 0603 4.7nF 50V X7R	4.7nF_50V_0603_02-0332	Fitted	1	02-0332	4.7nF/50V	
C10	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Fitted	1	02-3514	100nF/50V	
C11	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Fitted	1	32-0121	10nF/305V/X2	
C12	02-5734 - SMD Capacitor 1206 560pF 500V C0G	560pF_500V_1206_02-5734	Fitted	1	02-5734	560pF/500V	
C14	32-0121_1 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121_1	Fitted	1	32-0121_1	10nF/305V/X2	
C15	32-0121_1 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121_1	Fitted	1	32-0121_1	10nF/305V/X2	
C16	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Fitted	1	32-0121	10nF/305V/X2	
C17	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Fitted	1	32-0121	10nF/305V/X2	
C18	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Fitted	1	32-0121	10nF/305V/X2	
C19	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Fitted	1	02-3514	100nF/50V	
C20	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Fitted	1	02-3514	100nF/50V	
C21	02-4118 - THT Capacitor Disc RM9.5 2.2nF 500V Y1	2.2nF_500V_RM9.5_02-4118	Fitted	1	02-4118	2.2nF/500V/Y1	
C100	32-0466 - THT Elko RM5 2200µF 16V	2200µF_16V_RM5_32-0466	Fitted	1	32-0466	2200µF/16V	
C102	02-1334 - SMD Capacitor 1206 2.2nF 500V X7R	2.2nF_500V_1206_02-1334	Fitted	1	02-1334	2.2nF/500V	
C107	02-5734 - SMD Capacitor 1206 560pF 500V C0G	560pF_500V_1206_02-5734	Fitted	1	02-5734	560pF/500V	
C109	32-0121_1 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121_1	Fitted	1	32-0121_1	10nF/305V/X2	
C114	02-0322 - SMD Capacitor 0603 1nF 50V X7R	1nF_50V_0603_02-0322	Fitted	1	02-0322	1nF/50V	
C117	32-0121 - THT Capacitor 13x4x9mm RM10 10nF 305V X2	10nF_305V_RM10_32-0121	Fitted	1	32-0121	10nF/305V/X2	
D2	11-8673-1 Optokoppler SMD4 1fach 5kV	PC123X1YUP0F_11-8673-1	Fitted	1	11-8673-1	PC123X1YUP0F	
D100		Altair04-900	Fitted	1		Altair04-900	
L2	04-4114- Filter WE	Filter_1.2mH_0.28A_04-4114	Fitted	1	04-4114	1.2mH/0.28A	
L3	04-5443 - Stromkompensierte Drossel 2x1.8mH 1A	WE-TFC_2x1.8mH_1A_04-5443	Fitted	1	04-5443	2x1.8mH/1A/2x310mR	
L5	04-4114- Filter WE	Filter_1.2mH_0.28A_04-4114	Fitted	1	04-4114	1.2mH/0.28A	
L6	04-4114- Filter WE	Filter_1.2mH_0.28A_04-4114	Fitted	1	04-4114	1.2mH/0.28A	
L7	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476630	Ind_74476630_04-5001	Fitted	1	04-5001	1000µH/30mA	
L8	04-5443 - Stromkompensierte Drossel 2x1.8mH 1A	WE-TFC_2x1.8mH_1A_04-5443	Fitted	1	04-5443	2x1.8mH/1A/2x310mR	
PCB1	15-7352-2 - PCB MetCom Messwandler	PCB_15-7352-2	Fitted	1	15-7352-2	PCB MetCom Messswandler	
R1	01-0448 - SMD Resistor 1206 0.25W 1%	1M_1206_01-0448	Fitted	1	01-0448	1M	
R2	01-0448 - SMD Resistor 1206 0.25W 1%	1M_1206_01-0448	Fitted	1	01-0448	1M	
R3	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Fitted	1	31-0300_1	460V_Kombi	
R4	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R5	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R6	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R7	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Fitted	1	31-0300_1	460V_Kombi	
R8	01-0448 - SMD Resistor 1206 0.25W 1%	1M_1206_01-0448	Fitted	1	01-0448	1M	
R9	01-0448 - SMD Resistor 1206 0.25W 1%	1M_1206_01-0448	Fitted	1	01-0448	1M	
R10	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	

Designator	Description	LibRef	Fitted	Quantity	Partnumber	PartType	
R11	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R12	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R16	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R17	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R18	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R19	01-4545 - SMD Resistor 0603 0.063W 0.1%	33k_0603_01-4545	Fitted	1	01-4545	33k/0.1%/25ppm	
R20	01-1046 - SMD Resistor 1206 0.25W 1%	10R_1206_01-1046	Fitted	1	01-1046	10R	
R21	01-0905 - SMD Resistor 0603 0.1W 1%	8.2k_0603_01-0905	Fitted	1	01-0905	8.2k	
R22	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R23	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R24	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R25	01-0960 - SMD Resistor 0603 0.1W 1%	100k_0603_01-0960	Fitted	1	01-0960	100k	
R26	01-1659-1 - SMD Resistor 1206 0.25W 1%	1.5R_1206_01-1659-1	Fitted	1	01-1659-1	1.5R	
R27	01-0905 - SMD Resistor 0603 0.1W 1%	8.2k_0603_01-0905	Fitted	1	01-0905	8.2k	
R28	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R29	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R30	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R34	01-1816 - SMD Resistor 0603 0.063W 1%	4.7R_0603_01-1816	Fitted	1	01-1816	4.7R	
R37	31-0289 THT Resistor 13x5.7mm 39R 5% 4W zugerichtet	39R_13x5.7mm_31-0289	Fitted	1	31-0289	39R/4W/200ppm	
R38	01-0080 - SMD Resistor 0603 0.1W 5%	0R_0603_01-0080	Fitted	1	01-0080	0R	
R39	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Fitted	1	01-0160	0R	
R40	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R41	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R42	01-0663 - SMD Resistor MiniMelf 0.25W 1%	100K_MiniMelf_01-0663	Fitted	1	01-3576	100K	
R43	01-1890 - SMD Resistor 0402 0.063W 1%	0R_0402_01-1890	Fitted	1	01-1890	0R	
R44	01-1890 - SMD Resistor 0402 0.063W 1%	0R_0402_01-1890	Fitted	1	01-1890	0R	
R46	01-0960 - SMD Resistor 0603 0.1W 1%	100k_0603_01-0960	Fitted	1	01-0960	100k	
R47	01-0960 - SMD Resistor 0603 0.1W 1%	100k_0603_01-0960	Fitted	1	01-0960	100k	
R48	01-0080 - SMD Resistor 0603 0.1W 5%	0R_0603_01-0080	Fitted	1	01-0080	0R	
R49	31-0289 THT Resistor 13x5.7mm 39R 5% 4W zugerichtet	39R_13x5.7mm_31-0289	Fitted	1	31-0289	39R/4W/200ppm	
R50	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Fitted	1	31-0300_1	460V_Kombi	
R51	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Fitted	1	31-0300_1	460V_Kombi	
R52	01-0884 - SMD Resistor 0603 0.1W 1%	560R_0603_01-0884	Fitted	1	01-0884	560R	
R53	01-1907 - SMD Resistor 0402 0.063W 1%	10k_0402_01-1907	Fitted	1	01-1907	10k	
R101	31-0289 THT Resistor 13x5.7mm 39R 5% 4W zugerichtet	39R_13x5.7mm_31-0289	Fitted	1	31-0289	39R/4W/200ppm	
R103	01-0384 - SMD Resistor 1206 0.25W 1%	100k_1206_01-0384	Fitted	1	01-0384	100k	
R104	01-0384 - SMD Resistor 1206 0.25W 1%	100k_1206_01-0384	Fitted	1	01-0384	100k	
R105	01-1046 - SMD Resistor 1206 0.25W 1%	10R_1206_01-1046	Fitted	1	01-1046	10R	
R108	31-0300_1 - VARISTOR_460V_8000A_KombiFP_200mm_14mm_Dish	VAR_460V_RM10_31-0300_1	Fitted	1	31-0300_1	460V_Kombi	
T1	04-5803 - Trafo_Wuerth_750315367	Trafo_750315367_04-5803	Fitted	1	04-5803	Trafo_750315367	
T2	xx-xxxx - Schaltnetzteil 24V 5Watt	SMPS-MW-IRM-05	Fitted	1	xx-xxxx	SMPS 24V 5W	
T3	xx-xxxx - Schaltnetzteil 24V 15Watt	SMPS-MW-NFM-15	Fitted	1	xx-xxxx	SMPS 24V 15W	
T4	04-3049 - Stromwandler 110H 6A 115Rdc	T60404-E4622-X501_04-3049	Fitted	1	04-3049	T60404-E4622-X501	
T5	04-3049 - Stromwandler 110H 6A 115Rdc	T60404-E4622-X501_04-3049	Fitted	1	04-3049	T60404-E4622-X501	
T6	04-3049 - Stromwandler 110H 6A 115Rdc	T60404-E4622-X501_04-3049	Fitted	1	04-3049	T60404-E4622-X501	

Designator	Description	LibRef	Fitted	Quantity	Partnumber	PartType	
TP1	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP2	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP3	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP4	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP5	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP6	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP7	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP8	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP9	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP10	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP11	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP12	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP13	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP104	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
TP106	99-0014- Testpunkt 1mm rund	Testpunkt_1mm_rund	Fitted	1	99-0014	Testpunkt	
V1	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V2	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V3	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V4	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V5	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V6	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V7	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V8	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V9	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V10	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V11	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V12	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V13	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150_08-1107	Fitted	1	08-1107	LL4150	
V14	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V15	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V18	08-1107_Diode_SMT_MiniMelf_0.6A_50V_0.5W	LL4150_08-1107	Fitted	1	08-1107	LL4150	
V19	08-1152_PNP_Standard_1fach_SMT_SOT23_0.1A_45V_0.25W_BCX71H	T_BCX71H_08-1152	Fitted	1	08-1152	BCX71H	
V20	08-4551 - SMB Schottky Rectifier 80V 2A	D_SK28_08-4551	Fitted	1	08-4551	SK28	
V21	08-0026-1 - Z-Diode 5% 18V MiniMELF	D_BZV55C18V_08-0026-1	Fitted	1	08-0026-1	BZV55C18V	
V101	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V102	08-5559_Diode_SMT_SMA_DO214AC_1.000V_1A	D_Diode_1.000V_1A_08-5559	Fitted	1	08-5559	S1M	
V104	08-3426_Diode_SMT_SMA_DO214AC_1A_800V_STTH108A	D_Diode_800V_08-3426	Fitted	1	08-3426	800V_1A	
V106	08-1093-1 - SMA Gleichrichter 400V 1A	GL_US1G-E35AT_SMA_400V_1A_08-109	Fitted	1	08-1093-1	US1G-E35AT	
X1	05-0452 - Messpunkt Messing gedreht	Messpunkt_gedreht_05-0452	Fitted	1	05-0452	Messpunkt	
X2	03-4353 -Faston_6.3mm_stehend_RM5.00	Faston_6.3mm_03-4353	Fitted	1	03-4353	Faston 1p	
X3	24-1999 - Schraubklemme_1x3p_180°_RM5.08	Schraubklemme_1x3p_RM5.08_24-1999	Fitted	1	24-1999	Schraubklemme	
X200	24-2084 - BL_2x9p_V_RM2.54	BL_2x9p_V_RM2.54_24-2084	Fitted	1	24-2084	BL_2x9p_V_RM2.54_DualEntry	
C13	02-3514 - SMD Capacitor 0402 100nF 50V X7R	100nF_50V_0402_02-3514	Not Fitted	0	02-3514	100nF/50V	
D1	11-7207 - BU4925G	BU4925G_11-7207	Not Fitted	0	11-7207	BU4925G	
L1	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476630	Ind_74476630_04-5001	Not Fitted	0	04-5001	1000µH/30mA	

Designator	Description	LibRef	Fitted	Quantity	Partnumber	PartType	
L4	04-5001_Ind_SMT_WE_GF_unpol_1000µH_30mA_74476630	Ind_74476630_04-5001	Not Fitted	0	04-5001	1000µH/30mA	
R13	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R	
R14	01-1046 - SMD Resistor 1206 0.25W 1%	10R_1206_01-1046	Not Fitted	0	01-1046	10R	
R15	01-4545 - SMD Resistor 0603 0.063W 0.1%	33k_0603_01-4545	Not Fitted	0	01-4545	33k/0.1%/25ppm	
R31	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R	
R32	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R	
R33	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R	
R35	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R	
R36	01-0160 - SMD Resistor 1206 0.25W 5%	0R_1206_01-0160	Not Fitted	0	01-0160	0R	
R45	01-0481 - SMD Resistor 0603 0.063W 5%	1k_0603_01-0481	Not Fitted	0	01-0481	1k	
T100	04-5082_WUERTH_750370134	WUERTH_750370134_04-5082	Not Fitted	0	04-5082	750370134	
V16	08-4551 - SMB Schottky Rectifier 80V 2A	D_SK28_08-4551	Not Fitted	0	08-4551	SK28	
V17	08-1093-1 - SMA Gleichrichter 400V 1A	GL_US1G-E35AT_SMA_400V_1A_08-1093	Not Fitted	0	08-1093-1	US1G-E35AT	
V105	08-7321 - Z-Diode_BZG03C200_200V_SMA_DO-214AC	D_Z200V_SMA_DO-214AC_08-7321	Not Fitted	0	08-7321	BZG03C200	
V109	08-4551 - SMB Schottky Rectifier 80V 2A	D_SK28_08-4551	Not Fitted	0	08-4551	SK28	

2 Object list

The MCS301 supports below OBIS objects:

	Object name	IC class	OBIS Code	Protected
1	**Abstract objects - Association & Security**			
	SAP Assignment	17	0-0:41.0.0.255	
	Current association	15	0-0:40.0.0.255	
	Security Setup (Management Client/Pre.Est.)	64	0-0:43.0.0.255	
	Security Setup (Reading Client)	64	0-0:43.0.2.255	
	Security-Receive Frame Counter -broadcast Key	1	0-0:43.1.1.255	
	Security-Receive Frame Counter- unicast key	1	0-0:43.1.0.255	
	Security-Receive Frame Counter- unicast key (Reading Client)	1	0-0:43.1.2.255	
2	**Abstract objects - ID's & control information**			
	COSEM logical device name	1	0-0:42.0.0.255	X
	Device ID 1	1	0-0:96.1.0.255	
	Device ID 2	1	0-0:96.1.1.255	
	Device ID 3	1	0-0:96.1.2.255	
	Device ID 4	1	0-0:96.1.3.255	
	Device ID 5	1	0-0:96.1.4.255	
	Device ID 6	1	0-0:96.1.5.255	
	Device ID 7	1	1-0:0.0.0.255	
	Currently Active Energy Tariff	1	0-0:96.14.0.255	
	Currently Active Maximum Demand Tariff	1	0-0:96.14.1.255	
	Default Energy Tariff in case of invalid clock	1	0-0:96.14.9.255	
	Default Max. Demand Tariff in case of invalid clock	1	0-0:96.14.10.255	
	Ambient Temperature	3	0-0:96.9.0.255	
3	**Abstract objects - Time related issues**			
	Clock	8	0-0:1.0.0.255	
	Local Time	1	1-0:0.9.1.255	
	Local Date	1	1-0:0.9.2.255	
	Clock Time Shift Limit	3	1-0:0.9.11.255	
	Activity Calendar	20	0-0:13.0.0.255	
	Active Special Days Table	11	0-0:11.0.0.255	
	Passive Special Days Table	11	0-0:11.0.1.255	
	Register Activation- Energy	6	0-0:14.0.1.255	
	Register Activation- Maximum Demand	6	0-0:14.0.2.255	
	Active Tariffication Script Table	9	0-0:10.0.100.255	
	Passive Tariffication Script Table	9	0-0:10.1.100.255	
4	**Abstract Objects - Billing Period Reset**			
	MDI Reset (Predefined Script)/ End of Billing Period	9	0-0:10.0.1.255	
	End of Billing Period 1 (Monthly)	22	0-0:15.0.0.255	
	Data of Billing Period 1 (Monthly)	7	0-0:98.1.0.255	

	Object name	IC class	OBIS Code	Protected
5	**Abstract objects - Disconnector, Load mgmt, Supervision**			
	Disconnect/Reconnect Control Scheduler	22	0-0:15.0.1.255	
	Disconnector Script Table	9	0-0:10.0.106.255	
	Disconnect Control	70	0-0:96.3.10.255	
	Event Object -Disconnector Control log	1	0-0:96.11.2.255	
	Disconnector Control Log	7	0-0:99.98.2.255	
	Limiter	71	0-0:17.0.0.255	
	Reclosing Configuration	1	0-0:94.98.28.255	
	Limiter Threshold Scheduler	22	0-0:94.98.18.255	
	Limiter Script Table	9	0-0:94.98.25.255	
6	**Abstract objects - Errors & Alarms, Event logs**			
	Error Register	1	0-0:97.97.0.255	X
	Alarm Register 1	1	0-0:97.98.0.255	
	Alarm Filter 1	1	0-0:97.98.10.255	
	Alarm Descriptor 1	1	0-0:97.98.20.255	
	Alarm Monitor 1	21	0-0:16.1.0.255	
	Alarm Register 2	1	0-0:97.98.1.255	
	Alarm Filter 2	1	0-0:97.98.11.255	
	Alarm Descriptor 2	1	0-0:97.98.21.255	
	Alarm Monitor 2	21	0-0:16.1.1.255	
	Event Object -Standard Event Log	1	0-0:96.11.0.255	
	Event Parameter-Standard event log	1	0-0:96.11.10.255	
	Standard Event Log	7	0-0:99.98.0.255	
	Event Object -Fraud Detection Log	1	0-0:96.11.1.255	
	Fraud Detection Log	7	0-0:99.98.1.255	
	Event Object - Communication Log	1	0-0:96.11.5.255	
	Communication Log	7	0-0:99.98.5.255	
7	**Abstract objects - User interface**			
	Consumer Message Text	1	0-0:96.13.0.255	
	Consumer Message Code	1	0-0:96.13.1.255	
	Push action scheduler - Consumer Information	22	0-4:15.0.4.255	
	Push setup - Consumer Information	40	0-6:25.9.0.255	
	Security setup - Consumer Information	64	0-0:43.0.1.255	
8	**Abstract objects - Firmware Upgrade**			
	Image transfer	18	0-0:44.0.0.255	X
	Image Transfer Activation Scheduler	22	0-0:15.0.2.255	X
	Predefined Scripts -Image activation	9	0-0:10.0.107.255	X
	Active firmware Identifier	1	1-0:0.2.0.255	X
	Active firmware signature	1	1-0:0.2.8.255	X
	Active firmware Identifier 1	1	1-1:0.2.0.255	X
	Active firmware signature 1	1	1-1:0.2.8.255	X
	Active firmware Identifier 2	1	1-2:0.2.0.255	X
	Active firmware signature 2	1	1-2:0.2.8.255	X

	Object name	IC class	OBIS Code	protected
9	**Electricity Related Objects - Totals and phase specific**			
	Active energy import (+A)	3	1-0:1.8.0.255	X
	Active energy export (−A)	3	1-0:2.8.0.255	X
	Active energy (|+A|+|-A|) Combined total	3	1-0:15.8.0.255	X
	Active energy (|+A|-|-A|) Net total	3	1-0:16.8.0.255	X
	Reactive energy QI (+Ri)	3	1-0:5.8.0.255	X
	Reactive energy QII (+Rc)	3	1-0:6.8.0.255	X
	Reactive energy QIII (-Ri)	3	1-0:7.8.0.255	X
	Reactive energy QIV (-Rc)	3	1-0:8.8.0.255	X
	Reactive energy import (+R)(QI+QII)	3	1-0:3.8.0.255	X
	Reactive energy export (-R)(QIII+QIV)	3	1-0:4.8.0.255	X
	Apparent energy import (+VA)(QI+QIV)	3	1-0:9.8.0.255	
	Apparent energy export (-VA)(QII+QIII)	3	1-0:10.8.0.255	
	Ampere-hours in absence of voltage L1	3	1-0:31.8.0.255	
	Ampere-hours in absence of voltage L2	3	1-0:51.8.0.255	
	Ampere-hours in absence of voltage L3	3	1-0:71.8.0.255	
	Active energy import (+A) L1	3	1-0:21.8.0.255	X
	Active energy import (+A) L2	3	1-0:41.8.0.255	X
	Active energy import (+A) L3	3	1-0:61.8.0.255	X
	Active energy export (-A) L1	3	1-0:22.8.0.255	X
	Active energy export (-A) L2	3	1-0:42.8.0.255	X
	Active energy export (-A) L3	3	1-0:62.8.0.255	X
	Reactive energy QI (+Ri) L1	3	1-0:25.8.0.255	X
	Reactive energy QI (+Ri) L2	3	1-0:45.8.0.255	X
	Reactive energy QI (+Ri) L3	3	1-0:65.8.0.255	X
	Reactive energy QII (+Rc) L1	3	1-0:26.8.0.255	X
	Reactive energy QII (+Rc) L2	3	1-0:46.8.0.255	X
	Reactive energy QII (+Rc) L3	3	1-0:66.8.0.255	X
	Reactive energy QIII (-Ri) L1	3	1-0:27.8.0.255	X
	Reactive energy QIII (-Ri) L2	3	1-0:47.8.0.255	X
	Reactive energy QIII (-Ri) L3	3	1-0:67.8.0.255	X
	Reactive energy QIV (-Rc) L1	3	1-0:28.8.0.255	X
	Reactive energy QIV (-Rc) L2	3	1-0:48.8.0.255	X
	Reactive energy QIV (-Rc) L3	3	1-0:68.8.0.255	X
	Reactive energy import (+R)(QI+QII) L1	3	1-0:23.8.0.255	X
	Reactive energy import (+R)(QI+QII) L2	3	1-0:43.8.0.255	X
	Reactive energy import (+R)(QI+QII) L3	3	1-0:63.8.0.255	X
	Reactive energy export (-R)(QIII+QIV) L1	3	1-0:24.8.0.255	X
	Reactive energy export (-R)(QIII+QIV) L2	3	1-0:44.8.0.255	X
	Reactive energy export (-R)(QIII+QIV) L3	3	1-0:64.8.0.255	X
	Apparent energy import (+VA)(QI+QIV) L1	3	1-0:29.8.0.255	
	Apparent energy import (+VA)(QI+QIV) L2	3	1-0:49.8.0.255	
	Apparent energy import (+VA)(QI+QIV) L3	3	1-0:69.8.0.255	
	Apparent energy export (-VA)(QII+QIII) L1	3	1-0:30.8.0.255	
	Apparent energy export (-VA)(QII+QIII) L2	3	1-0:50.8.0.255	
	Apparent energy export (-VA)(QII+QIII) L3	3	1-0:70.8.0.255	
	Copper losses total (+U*U*h)	3	1-0:83.8.1.255	
	Copper losses total (-U*U*h)	3	1-0:83.8.2.255	
	Line losses total (+I*I*h)	3	1-0:83.8.4.255	
	Line losses total (-I*I*h)	3	1-0:83.8.5.255	

	Object name		OBIS Code	protected
10	**Electricity Related Objects - Intervals**			
	Active energy import (+A) (interval)	3	1-0:1.29.0.255	X
	Active energy import (-A) (interval)	3	1-0:2.29.0.255	X
	Reactive energy import (+R)(QI+QII) (interval)	3	1-0:3.29.0.255	X
	Reactive energy export (-R)(QIII+QIV) (interval)	3	1-0:4.29.0.255	X
	Apparent energy import (+VA) (QI+QIV) (interval)	3	1-0:9.29.0.255	
	Apparent energy export (-VA) (QII+QIII) (interval)	3	1-0:10.29.0.255	
11	**Electricity Related Objects - Rated Registers**			
	Active energy import (+A) rate 1	3	1-0:1.8.1.255	X
	Active energy import (+A) rate 2	3	1-0:1.8.2.255	X
	Active energy import (+A) rate 3	3	1-0:1.8.3.255	X
	Active energy import (+A) rate 4	3	1-0:1.8.4.255	X
	Active energy import (+A) rate 5	3	1-0:1.8.5.255	X
	Active energy import (+A) rate 6	3	1-0:1.8.6.255	X
	Active energy import (+A) rate 7	3	1-0:1.8.7.255	X
	Active energy import (+A) rate 8	3	1-0:1.8.8.255	X
	Active energy export (−A) rate 1	3	1-0:2.8.1.255	X
	Active energy export (−A) rate 2	3	1-0:2.8.2.255	X
	Active energy export (−A) rate 3	3	1-0:2.8.3.255	X
	Active energy export (−A) rate 4	3	1-0:2.8.4.255	X
	Active energy export (−A) rate 5	3	1-0:2.8.5.255	X
	Active energy export (−A) rate 6	3	1-0:2.8.6.255	X
	Active energy export (−A) rate 7	3	1-0:2.8.7.255	X
	Active energy export (−A) rate 8	3	1-0:2.8.8.255	X
	Reactive energy (+R) rate 1	3	1-0:3.8.1.255	X
	Reactive energy (+R) rate 2	3	1-0:3.8.2.255	X
	Reactive energy (+R) rate 3	3	1-0:3.8.3.255	X
	Reactive energy (+R) rate 4	3	1-0:3.8.4.255	X
	Reactive energy (+R) rate 5	3	1-0:3.8.5.255	X
	Reactive energy (+R) rate 6	3	1-0:3.8.6.255	X
	Reactive energy (+R) rate 7	3	1-0:3.8.7.255	X
	Reactive energy (+R) rate 8	3	1-0:3.8.8.255	X
	Reactive energy (-R) rate 1	3	1-0:4.8.1.255	X
	Reactive energy (-R) rate 2	3	1-0:4.8.2.255	X
	Reactive energy (-R) rate 3	3	1-0:4.8.3.255	X
	Reactive energy (-R) rate 4	3	1-0:4.8.4.255	X
	Reactive energy (-R) rate 5	3	1-0:4.8.5.255	X
	Reactive energy (-R) rate 6	3	1-0:4.8.6.255	X
	Reactive energy (-R) rate 7	3	1-0:4.8.7.255	X
	Reactive energy (-R) rate 8	3	1-0:4.8.8.255	X
	Reactive energy QI (+Ri) rate 1	3	1-0:5.8.1.255	X
	Reactive energy QI (+Ri) rate 2	3	1-0:5.8.2.255	X
	Reactive energy QI (+Ri) rate 3	3	1-0:5.8.3.255	X
	Reactive energy QI (+Ri) rate 4	3	1-0:5.8.4.255	X
	Reactive energy QI (+Ri) rate 5	3	1-0:5.8.5.255	X
	Reactive energy QI (+Ri) rate 6	3	1-0:5.8.6.255	X
	Reactive energy QI (+Ri) rate 7	3	1-0:5.8.7.255	X
	Reactive energy QI (+Ri) rate 8	3	1-0:5.8.8.255	X
	Reactive energy QII (+Rc) rate 1	3	1-0:6.8.1.255	X
	Reactive energy QII (+Rc) rate 2	3	1-0:6.8.2.255	X

	Object name	IC class	OBIS Code	protected
	Reactive energy QII (+Rc) rate 3	3	1-0:6.8.3.255	X
	Reactive energy QII (+Rc) rate 4	3	1-0:6.8.4.255	X
	Reactive energy QII (+Rc) rate 5	3	1-0:6.8.5.255	X
	Reactive energy QII (+Rc) rate 6	3	1-0:6.8.6.255	X
	Reactive energy QII (+Rc) rate 7	3	1-0:6.8.7.255	X
	Reactive energy QII (+Rc) rate 8	3	1-0:6.8.8.255	X
	Reactive energy QIII (-Ri) rate 1	3	1-0:7.8.1.255	X
	Reactive energy QIII (-Ri) rate 2	3	1-0:7.8.2.255	X
	Reactive energy QIII (-Ri) rate 3	3	1-0:7.8.3.255	X
	Reactive energy QIII (-Ri) rate 4	3	1-0:7.8.4.255	X
	Reactive energy QIII (-Ri) rate 5	3	1-0:7.8.5.255	X
	Reactive energy QIII (-Ri) rate 6	3	1-0:7.8.6.255	X
	Reactive energy QIII (-Ri) rate 7	3	1-0:7.8.7.255	X
	Reactive energy QIII (-Ri) rate 8	3	1-0:7.8.8.255	X
	Reactive energy QIV (-Rc) rate 1	3	1-0:8.8.1.255	X
	Reactive energy QIV (-Rc) rate 2	3	1-0:8.8.2.255	X
	Reactive energy QIV (-Rc) rate 3	3	1-0:8.8.3.255	X
	Reactive energy QIV (-Rc) rate 4	3	1-0:8.8.4.255	X
	Reactive energy QIV (-Rc) rate 5	3	1-0:8.8.5.255	X
	Reactive energy QIV (-Rc) rate 6	3	1-0:8.8.6.255	X
	Reactive energy QIV (-Rc) rate 7	3	1-0:8.8.7.255	X
	Reactive energy QIV (-Rc) rate 8	3	1-0:8.8.8.255	X
	Apparent energy import (+VA)(QI+QIV) rate 1	3	1-0:9.8.1.255	
	Apparent energy import (+VA)(QI+QIV) rate 2	3	1-0:9.8.2.255	
	Apparent energy import (+VA)(QI+QIV) rate 3	3	1-0:9.8.3.255	
	Apparent energy import (+VA)(QI+QIV) rate 4	3	1-0:9.8.4.255	
	Apparent energy import (+VA)(QI+QIV) rate 5	3	1-0:9.8.5.255	
	Apparent energy import (+VA)(QI+QIV) rate 6	3	1-0:9.8.6.255	
	Apparent energy import (+VA)(QI+QIV) rate 7	3	1-0:9.8.7.255	
	Apparent energy import (+VA)(QI+QIV) rate 8	3	1-0:9.8.8.255	
	Apparent energy export (-VA)(QII+QIII) rate 1	3	1-0:10.8.1.255	
	Apparent energy export (-VA)(QII+QIII) rate 2	3	1-0:10.8.2.255	
	Apparent energy export (-VA)(QII+QIII) rate 3	3	1-0:10.8.3.255	
	Apparent energy export (-VA)(QII+QIII) rate 4	3	1-0:10.8.4.255	
	Apparent energy export (-VA)(QII+QIII) rate 5	3	1-0:10.8.5.255	
	Apparent energy export (-VA)(QII+QIII) rate 6	3	1-0:10.8.6.255	
	Apparent energy export (-VA)(QII+QIII) rate 7	3	1-0:10.8.7.255	
	Apparent energy export (-VA)(QII+QIII) rate 8	3	1-0:10.8.8.255	
	Active energy Combined total (|+A|+|-A|) rate 1	3	1-0:15.8.1.255	X
	Active energy Combined total (|+A|+|-A|) rate2	3	1-0:15.8.2.255	X
	Active energy Combined total (|+A|+|-A|) rate 3	3	1-0:15.8.3.255	X
	Active energy Combined total (|+A|+|-A|) rate 4	3	1-0:15.8.4.255	X
	Active energy Combined total (|+A|+|-A|) rate 5	3	1-0:15.8.5.255	X
	Active energy Combined total (|+A|+|-A|) rate 6	3	1-0:15.8.6.255	X
	Active energy Combined total (|+A|+|-A|) rate 7	3	1-0:15.8.7.255	X
	Active energy Combined total (|+A|+|-A|) rate 8	3	1-0:15.8.8.255	X
	Active energy net total (|+A|-|-A|) rate 1	3	1-0:16.8.1.255	X
	Active energy net total (|+A|-|-A|) rate 2	3	1-0:16.8.2.255	X
	Active energy net total (|+A|-|-A|) rate 3	3	1-0:16.8.3.255	X
	Active energy net total (|+A|-|-A|) rate 4	3	1-0:16.8.4.255	X
	Active energy net total (|+A|-|-A|) rate 5	3	1-0:16.8.5.255	X

	Object name	IC class	OBIS Code	protected
	Active energy net total (|+A|-|-A|) rate 6	3	1-0:16.8.6.255	X
	Active energy net total (|+A|-|-A|) rate 7	3	1-0:16.8.7.255	X
	Active energy net total (|+A|-|-A|) rate 8	3	1-0:16.8.8.255	X
12	**Electricity related objects - Demand**			
	Demand Register 1 – Active energy import (+A)	5	1-0:1.4.0.255	X
	Demand Register 2 – Active energy export (−A)	5	1-0:2.4.0.255	X
	Demand Register 3 – Reactive energy import (+R)	5	1-0:3.4.0.255	X
	Demand Register 4 – Reactive energy export (-R)	5	1-0:4.4.0.255	X
	Demand Register 5 - Apparent energy import (+S)	5	1-0:9.4.0.255	
	Demand Register 6 – Apparent energy export (-S)	5	1-0:10.4.0.255	
	Demand Register 7 – Active energy Combined total (|+A|+|-A|)	5	1-0:15.4.0.255	X
13	**Electricity related objects - Maximum Demand**			
	Maximum Demand Register 1 -Active energy import (+A)	4	1-0:1.6.0.255	X
	Maximum Demand Register 2 -Active energy import (+A), rate 1	4	1-0:1.6.1.255	X
	Maximum Demand Register 3 -Active energy import (+A), rate 2	4	1-0:1.6.2.255	X
	Maximum Demand Register 4 -Active energy import (+A), rate 3	4	1-0:1.6.3.255	X
	Maximum Demand Register 5 -Active energy import (+A), rate 4	4	1-0:1.6.4.255	X
	Maximum Demand Register 6 -Active energy export (−A)	4	1-0:2.6.0.255	X
	Maximum Demand Register 7 -Active energy export (−A), rate 1	4	1-0:2.6.1.255	X
	Maximum Demand Register 8 -Active energy export (−A), rate 2	4	1-0:2.6.2.255	X
	Maximum Demand Register 9 -Active energy export (−A), rate 3	4	1-0:2.6.3.255	X
	Maximum Demand Register 10 -Active energy export (−A), rate 4	4	1-0:2.6.4.255	X
	Maximum Demand Register 11 -Reactive energy import (+R)	4	1-0:3.6.0.255	X
	Maximum Demand Register 12 -Reactive energy import (+R), rate 1	4	1-0:3.6.1.255	X
	Maximum Demand Register 13 -Reactive energy import (+R). rate 2	4	1-0:3.6.2.255	X
	Maximum Demand Register 14 -Reactive energy import (+R), rate 3	4	1-0:3.6.3.255	X
	Maximum Demand Register 15 -Reactive energy import (+R), rate 4	4	1-0:3.6.4.255	X
	Maximum Demand Register 16 -Reactive energy export (-R)	4	1-0:4.6.0.255	X
	Maximum Demand Register 17 -Reactive energy export (-R) -rate 1	4	1-0:4.6.1.255	X
	Maximum Demand Register 18 -Reactive energy export (-R) -rate 2	4	1-0:4.6.2.255	X
	Maximum Demand Register 19 -Reactive energy export (-R) -rate 3	4	1-0:4.6.3.255	X
	Maximum Demand Register 20 -Reactive energy export (-R) -rate 4	4	1-0:4.6.4.255	X
	Maximum Demand -Apparent energy import (+VA)	4	1-0:9.6.0.255	
	Maximum Demand -Apparent energy import (+VA) rate 1	4	1-0:9.6.1.255	
	Maximum Demand -Apparent energy import (+VA) rate 2	4	1-0:9.6.2.255	
	Maximum Demand -Apparent energy import (+VA) rate 3	4	1-0:9.6.3.255	
	Maximum Demand -Apparent energy import (+VA) rate 4	4	1-0:9.6.4.255	
	Maximum Demand -Apparent energy export (-VA)	4	1-0:10.6.0.255	
	Maximum Demand -Apparent energy export (-VA) rate 1	4	1-0:10.6.1.255	
	Maximum Demand -Apparent energy export (-VA) rate 2	4	1-0:10.6.2.255	
	Maximum Demand -Apparent energy export (-VA) rate 3	4	1-0:10.6.3.255	
	Maximum Demand -Apparent energy export (-VA) rate 4	4	1-0:10.6.4.255	
	Maximum Demand Register 31 -Active energy Combined total (|+A|+|-A|)	4	1-0:15.6.0.255	X
	Maximum Demand Register 32 -Active energy Combined total (|+A|+|-A|) -rate 1	4	1-0:15.6.1.255	X
	Maximum Demand Register 33 -Active energy Combined total (|+A|+|-A|) -rate 2	4	1-0:15.6.2.255	X
	Maximum Demand Register 34 -Active energy Combined total (|+A|+|-A|) -rate 3	4	1-0:15.6.3.255	X
	Maximum Demand Register 35 -Active energy Combined total (|+A|+|-A|) – rate 4	4	1-0:15.6.4.255	X

	Object name	IC class	OBIS Code	protected
	Maximum Demand Register 36 -Active energy Combined total (|+A|+|-A|) (recording interval 2)	4	1-0:15.54.0.255	X
	Maximum Demand Register 37 -Active energy import total (+A) (recording interval 2)	4	1-0:1.54.0.255	X
14	**Electricity related objects - Profiles**			
	Profile Status 1 (Load profile with period 1)	1	0-0:96.10.1.255	X
	Load profile 1	7	1-0:99.1.0.255	X
	Profile Status 2 (Load profile with period 2)	1	0-0:96.10.2.255	X
	Load profile 2	7	1-0:99.2.0.255	X
	Profile Status 3 (Harmonic Values)	1	0-0:96.10.9.255	
	Profile Status 4 (Avg., Min., Max.)	1	0-0:96.10.10.255	
	Average Value Profile	7	1-0:99.133.0.255	
	Max.Values Profile	7	1-0:99.134.0.255	
	Min. Values Profile	7	1-0:99.135.0.255	
	Harmonics Profile	7	1-0:99.136.0.255	
	Instantaneous Energy Values	7	0-0:21.0.6.255	
	Power Quality Instantaneous Values	7	0-0:21.0.5.255	
15	**Electricity related objects - PQ, monitored values**			
	Number of Short Power Failure in Any Phases	1	0-0:96.7.21.255	
	Number of long power failures in any phase	1	0-0:96.7.9.255	
	Time threshold for long power failure	3	0-0:96.7.20.255	
	Duration of last long power failure in any phase	3	0-0:96.7.19.255	
	Threshold for Under Voltage (sag)	3	1-0:12.31.0.255	
	Time Threshold for Under Voltage (sag)	3	1-0:12.43.0.255	
	Number of Under Voltages in phase L1	1	1-0:32.32.0.255	
	Number of Under Voltages (sag) in phase L2	1	1-0:52.32.0.255	
	Number of Under Voltages (sag) in phase L3	1	1-0:72.32.0.255	
	Duration of Under Voltage (sag) in phase L1	3	1-0:32.33.0.255	
	Duration of Under Voltage (sag) in phase L2	3	1-0:52.33.0.255	
	Duration of Under Voltage (sag) in phase L3	3	1-0:72.33.0.255	
	Magnitude of Under Voltage (sag) in phase L1	3	1-0:32.34.0.255	
	Magnitude of Under Voltage (sag) in phase L2	3	1-0:52.34.0.255	
	Magnitude of Under Voltage (sag) in phase L3	3	1-0:72.34.0.255	
	Threshold for Over Voltage (swell)	3	1-0:12.35.0.255	
	Time threshold for Over Voltage (swell)	3	1-0:12.44.0.255	
	Number of Over Voltage (swell) in phase L1	1	1-0:32.36.0.255	
	Number of Over Voltage (swell) in phase L2	1	1-0:52.36.0.255	
	Number of Over Voltage (swell) in phase L3	1	1-0:72.36.0.255	
	Duration of Over Voltage (swell) in phase L1	3	1-0:32.37.0.255	
	Duration of Over Voltage (swell) in phaseL2	3	1-0:52.37.0.255	
	Duration of Over Voltage (swell) in phase L3	3	1-0:72.37.0.255	
	Magnitude of Over Voltage (swell) in phase L1	3	1-0:32.38.0.255	
	Magnitude of Over Voltage (swell) in phase L2	3	1-0:52.38.0.255	
	Magnitude of Over Voltage (swell) in phase L3	3	1-0:72.38.0.255	
	Threshold for missing voltage (voltage cut)	3	1-0:12.39.0.255	
	Time threshold for voltage cut	3	1-0:12.45.0.255	
	Event Object -Power Failure Log	1	0-0:96.11.6.255	
	Power Failure Event Log	7	1-0:99.97.0.255	
	Event Object -Power Quality Log	1	0-0:96.11.4.255	
	Power Quality Log	7	0-0:99.98.4.255	
	Number of power failures in all phases	1	0-0:96.7.0.255	

	Object name	IC class	OBIS Code	protected
	Number of power failures phase L1	1	0-0:96.7.1.255	
	Number of power failures phase L2	1	0-0:96.7.2.255	
	Number of power failures phase L3	1	0-0:96.7.3.255	
	Number of long power failures in all phases	1	0-0:96.7.5.255	
	Number of long power failures in phase L1	1	0-0:96.7.6.255	
	Number of long power failures in phase L2	1	0-0:96.7.7.255	
	Number of long power failures in phase L3	1	0-0:96.7.8.255	
	Duration of Last Long Power Failure in All Phases	3	0-0:96.7.15.255	
	Duration of Last Long Power Failure in Phase L1	3	0-0:96.7.16.255	
	Duration of Last Long Power Failure in Phase L2	3	0-0:96.7.17.255	
	Duration of Last Long Power Failure in Phase L3	3	0-0:96.7.18.255	
	Instantaneous current L0 (neutral)	3	1-0:91.7.0.255	
	Instantaneous voltage L1	3	1-0:32.7.0.255	
	Average voltage L1	3	1-0:32.24.0.255	
	Instantaneous current L1	3	1-0:31.7.0.255	
	Sliding Average current L1 (for fuse supervision)	5	1-0:31.4.0.255	
	Instantaneous voltage L2	3	1-0:52.7.0.255	
	Average voltage L2	3	1-0:52.24.0.255	
	Instantaneous current L2	3	1-0:51.7.0.255	
	Sliding Average current L2 (for fuse supervision)	5	1-0:51.4.0.255	
	Instantaneous voltage L3	3	1-0:72.7.0.255	
	Average voltage L3	3	1-0:72.24.0.255	
	Instantaneous current L3	3	1-0:71.7.0.255	
	Sliding Average current L3 (for fuse supervision)	5	1-0:71.4.0.255	
	Instantaneous current(sum over all phases)	3	1-0:90.7.0.255	
	Instantaneous neutral current calculated	3	1-0:91.7.3.255	
	Instantaneous net frequency	3	1-0:14.7.0.255	
	Instantaneous active power (|+A|+|-A|)	3	1-0:15.7.0.255	
	Instantaneous active import power (+A)	3	1-0:1.7.0.255	
	Instantaneous active export power (-A)	3	1-0:2.7.0.255	
	Instantaneous reactive import power (+R)	3	1-0:3.7.0.255	
	Instantaneous reactive export power (-R)	3	1-0:4.7.0.255	
	Instantaneous apparent import power (+VA)	3	1-0:9.7.0.255	
	Instantaneous apparent export power (-VA)	3	1-0:10.7.0.255	
	Instantaneous active import power (+A) L1	3	1-0:21.7.0.255	
	Instantaneous active export power (-A) L1	3	1-0:22.7.0.255	
	Instantaneous reactive import power (+R) L1	3	1-0:23.7.0.255	
	Instantaneous reactive export power (-R) L1	3	1-0:24.7.0.255	
	Instantaneous apparent import power (+VA) L1	3	1-0:29.7.0.255	
	Instantaneous apparent export power (-VA) L1	3	1-0:30.7.0.255	
	Instantaneous power factor (PF) L1	3	1-0:33.7.0.255	
	Instantaneous active import power (+A) L2	3	1-0:41.7.0.255	
	Instantaneous active export power (-A) L2	3	1-0:42.7.0.255	
	Instantaneous reactive import power (+R) L2	3	1-0:43.7.0.255	
	Instantaneous reactive export power (-R) L2	3	1-0:44.7.0.255	
	Instantaneous apparent import power (+VA) L2	3	1-0:49.7.0.255	
	Instantaneous apparent export power (-VA) L2	3	1-0:50.7.0.255	
	Instantaneous power factor (PF) L2	3	1-0:53.7.0.255	
	Instantaneous active import power (+A) L3	3	1-0:61.7.0.255	
	Instantaneous active export power (-A) L3	3	1-0:62.7.0.255	
	Instantaneous reactive import power (+R) L3	3	1-0:63.7.0.255	

	Object name	IC class	OBIS Code	protected
	Instantaneous reactive export power (-R) L3	3	1-0:64.7.0.255	
	Instantaneous apparent import power (+VA) L3	3	1-0:69.7.0.255	
	Instantaneous apparent export power (-VA) L3	3	1-0:70.7.0.255	
	Instantaneous power factor (PF) L3	3	1-0:73.7.0.255	
	Average Import Power (+A)	5	1-0:1.24.0.255	
	Average Net Power (|+A|-|-A|)	5	1-0:16.24.0.255	
	Average Total Power (|+A|+|-A|)	5	1-0:15.24.0.255	
	Instantaneous Power factor (+A/+VA)	3	1-0:13.7.0.255	
	Phase Angle from I(L1) to U(L1)	3	1-0:81.7.4.255	
	Phase Angle from I(L2) to U(L2)	3	1-0:81.7.15.255	
	Phase Angle from I(L3) to U(L3)	3	1-0:81.7.26.255	
	Phase Angle from U(L1) to U(L1)	3	1-0:81.7.0.255	
	Phase Angle from U(L2) to U(L2)	3	1-0:81.7.10.255	
	Phase Angle from U(L3) to U(L3)	3	1-0:81.7.20.255	
	Measurement Period 1 for Demand	3	1-0:0.8.0.255	X
	Measurement Period 2 for Demand 2	3	1-0:0.8.1.255	X
	Measurement Period 3 for Instantaneous values	3	1-0:0.8.2.255	
16	**Average, Max and Min values (interval)**			
	Last average value of voltage L1	3	1-0:32.25.0.255	
	Last average value of voltage L2	3	1-0:52.25.0.255	
	Last average value of voltage L3	3	1-0:72.25.0.255	
	Last average value of current L1	3	1-0:31.25.0.255	
	Last average value of current L2	3	1-0:51.25.0.255	
	Last average value of current L3	3	1-0:71.25.0.255	
	Last average value of power factor L1	3	1-0:33.25.0.255	
	Last average value of power factor L2	3	1-0:53.25.0.255	
	Last average value of power factor L3	3	1-0:73.25.0.255	
	Last average value of power factor	3	1-0:13.25.0.255	
	Last average value of net frequency	3	1-0:14.25.0.255	
	Last average value of import active power	3	1-0:1.25.0.255	
	Last average value of export active power	3	1-0:2.25.0.255	
	Last average value of import reactive power	3	1-0:3.25.0.255	
	Last average value of export reactive power	3	1-0:4.25.0.255	
	Last average value of import apparent power	3	1-0:9.25.0.255	
	Last average value of export apparent power	3	1-0:10.25.0.255	
	Last average value of import active power L1	3	1-0:21.25.0.255	
	Last average value of export active power L1	3	1-0:22.25.0.255	
	Last average value of import reactive power L1	3	1-0:23.25.0.255	
	Last average value of export reactive power L1	3	1-0:24.25.0.255	
	Last average value of import apparent power L1	3	1-0:29.25.0.255	
	Last average value of export apparent power L1	3	1-0:30.25.0.255	
	Last average value of import active power L2	3	1-0:41.25.0.255	
	Last average value of export active power L2	3	1-0:42.25.0.255	
	Last average value of import reactive power L2	3	1-0:43.25.0.255	
	Last average value of export reactive power L2	3	1-0:44.25.0.255	
	Last average value of import apparent power L2	3	1-0:49.25.0.255	
	Last average value of export apparent power L2	3	1-0:50.25.0.255	
	Last average value of import active power L3	3	1-0:61.25.0.255	
	Last average value of export active power L3	3	1-0:62.25.0.255	
	Last average value of import reactive power L3	3	1-0:63.25.0.255	
	Last average value of export reactive power L3	3	1-0:64.25.0.255	

	Object name	IC class	OBIS Code	protectce d
	Last average value of import apparent power L3	3	1-0:69.25.0.255	
	Last average value of export apparent power L3	3	1-0:70.25.0.255	
	Last Maximum value of voltage L1	3	1-0:32.226.0.255	
	Last Maximum value of voltage L2	3	1-0:52.226.0.255	
	Last Maximum value of voltage L3	3	1-0:72.226.0.255	
	Last Maximum value of current L1	3	1-0:31.226.0.255	
	Last Maximum value of current L2	3	1-0:51.226.0.255	
	Last Maximum value of current L3	3	1-0:71.226.0.255	
	Last Maximum value of power factor L1	3	1-0:33.226.0.255	
	Last Maximum value of power factor L2	3	1-0:53.226.0.255	
	Last Maximum value of power factor L3	3	1-0:73.226.0.255	
	Last Maximum value of power factor	3	1-0:13.226.0.255	
	Last Maximum value of net frequency	3	1-0:14.226.0.255	
	Last Maximum value of import active power	3	1-0:1.226.0.255	
	Last Maximum value of export active power	3	1-0:2.226.0.255	
	Last Maximum value of import reactive power	3	1-0:3.226.0.255	
	Last Maximum value of export reactive power	3	1-0:4.226.0.255	
	Last maximum value of import apparent power	3	1-0:9.226.0.255	
	Last maximum value of export apparent power	3	1-0:10.226.0.255	
	Last maximum value of import active power L1	3	1-0:21.226.0.255	
	Last maximum value of export active power L1	3	1-0:22.226.0.255	
	Last maximum value of import reactive power L1	3	1-0:23.226.0.255	
	Last maximum value of export reactive power L1	3	1-0:24.226.0.255	
	Last maximum value of import apparent power L1	3	1-0:29.226.0.255	
	Last maximum value of export apparent power L1	3	1-0:30.226.0.255	
	Last maximum value of import active power L2	3	1-0:41.226.0.255	
	Last maximum value of export active power L2	3	1-0:42.226.0.255	
	Last maximum value of import reactive power L2	3	1-0:43.226.0.255	
	Last maximum value of export reactive power L2	3	1-0:44.226.0.255	
	Last maximum value of import apparent power L2	3	1-0:49.226.0.255	
	Last maximum value of export apparent power L2	3	1-0:50.226.0.255	
	Last maximum value of import active power L3	3	1-0:61.226.0.255	
	Last maximum value of export active power L3	3	1-0:62.226.0.255	
	Last maximum value of import reactive power L3	3	1-0:63.226.0.255	
	Last maximum value of export reactive power L3	3	1-0:64.226.0.255	
	Last maximum value of import apparent power L3	3	1-0:69.226.0.255	
	Last maximum value of export apparent power L3	3	1-0:70.226.0.255	
	Last Minimum value of voltage L1	3	1-0:32.223.0.255	
	Last Minimum value of voltage L2	3	1-0:52.223.0.255	
	Last Minimum value of voltage L3	3	1-0:72.223.0.255	
	Last Minimum value of current L1	3	1-0:31.223.0.255	
	Last Minimum value of current L2	3	1-0:51.223.0.255	
	Last Minimum value of current L3	3	1-0:71.223.0.255	
	Last Minimum value of power factor L1	3	1-0:33.223.0.255	
	Last Minimum value of power factor L2	3	1-0:53.223.0.255	
	Last Minimum value of power factor L3	3	1-0:73.223.0.255	
	Last Minimum value of power factor	3	1-0:13.223.0.255	
	Last Minimum value of net frequency	3	1-0:14.223.0.255	
	Last Minimum value of import active power	3	1-0:1.223.0.255	
	Last Minimum value of export active power	3	1-0:2.223.0.255	
	Last Minimum value of import reactive power	3	1-0:3.223.0.255	

	Object name	IC class	OBIS Code	protected
	Last Minimum value of export reactive power	3	1-0:4.223.0.255	
	Last minimum value of import apparent power	3	1-0:9.223.0.255	
	Last minimum value of export apparent power	3	1-0:10.223.0.255	
	Last Minimum value of import active power L1	3	1-0:21.223.0.255	
	Last Minimum value of export active power L1	3	1-0:22.223.0.255	
	Last Minimum value of import reactive power L1	3	1-0:23.223.0.255	
	Last Minimum value of export reactive power L1	3	1-0:24.223.0.255	
	Last minimum value of import apparent power L1	3	1-0:29.223.0.255	
	Last minimum value of export apparent power L1	3	1-0:30.223.0.255	
	Last Minimum value of import active power L2	3	1-0:41.223.0.255	
	Last Minimum value of export active power L2	3	1-0:42.223.0.255	
	Last Minimum value of import reactive power L2	3	1-0:43.223.0.255	
	Last Minimum value of export reactive power L2	3	1-0:44.223.0.255	
	Last minimum value of import apparent power L2	3	1-0:49.223.0.255	
	Last minimum value of export apparent power L2	3	1-0:50.223.0.255	
	Last Minimum value of import active power L3	3	1-0:61.223.0.255	
	Last Minimum value of export active power L3	3	1-0:62.223.0.255	
	Last Minimum value of import reactive power L3	3	1-0:63.223.0.255	
	Last Minimum value of export reactive power L3	3	1-0:64.223.0.255	
	Last minimum value of import apparent power L3	3	1-0:69.223.0.255	
	Last minimum value of export apparent power L3	3	1-0:70.223.0.255	
17	**Harmonic Related Objects**			
	Instantaneous value of 3th harmonic voltage L1	3	1-0:32.7.3.255	
	Instantaneous value of 3th harmonic voltage L2	3	1-0:52.7.3.255	
	Instantaneous value of 3th harmonic voltage L3	3	1-0:72.7.3.255	
	Instantaneous value of 5th harmonic voltage L1	3	1-0:32.7.5.255	
	Instantaneous value of 5th harmonic voltage L2	3	1-0:52.7.5.255	
	Instantaneous value of 5th harmonic voltage L3	3	1-0:72.7.5.255	
	Instantaneous value of 7th harmonic voltage L1	3	1-0:32.7.7.255	
	Instantaneous value of 7th harmonic voltage L2	3	1-0:52.7.7.255	
	Instantaneous value of 7th harmonic voltage L3	3	1-0:72.7.7.255	
	Instantaneous value of 9th harmonic voltage L1	3	1-0:32.7.9.255	
	Instantaneous value of 9th harmonic voltage L2	3	1-0:52.7.9.255	
	Instantaneous value of 9th harmonic voltage L3	3	1-0:72.7.9.255	
	Instantaneous value of 11th harmonic voltage L1	3	1-0:32.7.11.255	
	Instantaneous value of 11th harmonic voltage L2	3	1-0:52.7.11.255	
	Instantaneous value of 11th harmonic voltage L3	3	1-0:72.7.11.255	
	Instantaneous value of 13th harmonic voltage L1	3	1-0:32.7.13.255	
	Instantaneous value of 13th harmonic voltage L2	3	1-0:52.7.13.255	
	Instantaneous value of 13th harmonic voltage L3	3	1-0:72.7.13.255	
	Instantaneous value of 15th harmonic voltage L1	3	1-0:32.7.15.255	
	Instantaneous value of 15th harmonic voltage L2	3	1-0:52.7.15.255	
	Instantaneous value of 15th harmonic voltage L3	3	1-0:72.7.15.255	
	Instantaneous value of THD of voltage L1	3	1-0:32.7.124.255	
	Instantaneous value of THD of voltage L2	3	1-0:52.7.124.255	
	Instantaneous value of THD of voltage L3	3	1-0:72.7.124.255	
	Instantaneous value of 3th harmonic current L1	3	1-0:31.7.3.255	
	Instantaneous value of 3th harmonic current L2	3	1-0:51.7.3.255	
	Instantaneous value of 3th harmonic current L3	3	1-0:71.7.3.255	
	Instantaneous value of 5th harmonic current L1	3	1-0:31.7.5.255	
	Instantaneous value of 5th harmonic current L2	3	1-0:51.7.5.255	

	Object name	IC class	OBIS Code	protected
	Instantaneous value of 5th harmonic current L3	3	1-0:71.7.5.255	
	Instantaneous value of 7th harmonic current L1	3	1-0:31.7.7.255	
	Instantaneous value of 7th harmonic current L2	3	1-0:51.7.7.255	
	Instantaneous value of 7th harmonic current L3	3	1-0:71.7.7.255	
	Instantaneous value of 9th harmonic current L1	3	1-0:31.7.9.255	
	Instantaneous value of 9th harmonic current L2	3	1-0:51.7.9.255	
	Instantaneous value of 9th harmonic current L3	3	1-0:71.7.9.255	
	Instantaneous value of 11th harmonic current L1	3	1-0:31.7.11.255	
	Instantaneous value of 11th harmonic current L2	3	1-0:51.7.11.255	
	Instantaneous value of 11th harmonic current L3	3	1-0:71.7.11.255	
	Instantaneous value of 13th harmonic current L1	3	1-0:31.7.13.255	
	Instantaneous value of 13th harmonic current L2	3	1-0:51.7.13.255	
	Instantaneous value of 13th harmonic current L3	3	1-0:71.7.13.255	
	Instantaneous value of 15th harmonic current L1	3	1-0:31.7.15.255	
	Instantaneous value of 15th harmonic current L2	3	1-0:51.7.15.255	
	Instantaneous value of 15th harmonic current L3	3	1-0:71.7.15.255	
	Instantaneous value of THD of current L1	3	1-0:31.7.124.255	
	Instantaneous value of THD of current L2	3	1-0:51.7.124.255	
	Instantaneous value of THD of current L3	3	1-0:71.7.124.255	
	Last Average value of 3th harmonic voltage L1	3	1-0:32.24.3.255	
	Last Average value of 3th harmonic voltage L2	3	1-0:52.24.3.255	
	Last Average value of 3th harmonic voltage L3	3	1-0:72.24.3.255	
	Last Average value of 5th harmonic voltage L1	3	1-0:32.24.5.255	
	Last Average value of 5th harmonic voltage L2	3	1-0:52.24.5.255	
	Last Average value of 5th harmonic voltage L3	3	1-0:72.24.5.255	
	Last Average value of 7th harmonic voltage L1	3	1-0:32.24.7.255	
	Last Average value of 7th harmonic voltage L2	3	1-0:52.24.7.255	
	Last Average value of 7th harmonic voltage L3	3	1-0:72.24.7.255	
	Last Average value of 9th harmonic voltage L1	3	1-0:32.24.9.255	
	Last Average value of 9th harmonic voltage L2	3	1-0:52.24.9.255	
	Last Average value of 9th harmonic voltage L3	3	1-0:72.24.9.255	
	Last Average value of 11th harmonic voltage L1	3	1-0:32.24.11.255	
	Last Average value of 11th harmonic voltage L2	3	1-0:52.24.11.255	
	Last Average value of 11th harmonic voltage L3	3	1-0:72.24.11.255	
	Last Average value of 13th harmonic voltage L1	3	1-0:32.24.13.255	
	Last Average value of 13th harmonic voltage L2	3	1-0:52.24.13.255	
	Last Average value of 13th harmonic voltage L3	3	1-0:72.24.13.255	
	Last Average value of 15th harmonic voltage L1	3	1-0:32.24.15.255	
	Last Average value of 15th harmonic voltage L2	3	1-0:52.24.15.255	
	Last Average value of 15th harmonic voltage L3	3	1-0:72.24.15.255	
	Last Average value of THD of voltage L1	3	1-0:32.24.124.255	
	Last Average value of THD of voltage L2	3	1-0:52.24.124.255	
	Last Average value of THD of voltage L3	3	1-0:72.24.124.255	
	Last Average value of 3th harmonic current L1	3	1-0:31.24.3.255	
	Last Average value of 3th harmonic current L2	3	1-0:51.24.3.255	
	Last Average value of 3th harmonic current L3	3	1-0:71.24.3.255	
	Last Average value of 5th harmonic current L1	3	1-0:31.24.5.255	
	Last Average value of 5th harmonic current L2	3	1-0:51.24.5.255	
	Last Average value of 5th harmonic current L3	3	1-0:71.24.5.255	
	Last Average value of 7th harmonic current L1	3	1-0:31.24.7.255	
	Last Average value of 7th harmonic current L2	3	1-0:51.24.7.255	

	Object name	IC class	OBIS Code	protected
	Last Average value of 7th harmonic current L3	3	1-0:71.24.7.255	
	Last Average value of 9th harmonic current L1	3	1-0:31.24.9.255	
	Last Average value of 9th harmonic current L2	3	1-0:51.24.9.255	
	Last Average value of 9th harmonic current L3	3	1-0:71.24.9.255	
	Last Average value of 11th harmonic current L1	3	1-0:31.24.11.255	
	Last Average value of 11th harmonic current L2	3	1-0:51.24.11.255	
	Last Average value of 11th harmonic current L3	3	1-0:71.24.11.255	
	Last Average value of 13th harmonic current L1	3	1-0:31.24.13.255	
	Last Average value of 13th harmonic current L2	3	1-0:51.24.13.255	
	Last Average value of 13th harmonic current L3	3	1-0:71.24.13.255	
	Last Average value of 15th harmonic current L1	3	1-0:31.24.15.255	
	Last Average value of 15th harmonic current L2	3	1-0:51.24.15.255	
	Last Average value of 15th harmonic current L3	3	1-0:71.24.15.255	
	Last Average value of THD of current L1	3	1-0:31.24.124.255	
	Last Average value of THD of current L2	3	1-0:51.24.124.255	
	Last Average value of THD of current L3	3	1-0:71.24.124.255	
18	**M-Bus related objects**			
	M-Bus master port setup 1	74	0-0:24.6.0.255	
	M-Bus master port setup 2	74	0-1:24.6.0.255	
	M-Bus client channel 1	72	0-1:24.1.0.255	
	M-Bus client channel 2	72	0-2:24.1.0.255	
	M-Bus client channel 3	72	0-3:24.1.0.255	
	M-Bus client channel 4	72	0-4:24.1.0.255	
	M-Bus Value channel 1, instance 1	4	0-1:24.2.1.255	
	M-Bus Value channel 1, instance 2	4	0-1:24.2.2.255	
	M-Bus Value channel 1, instance 3	4	0-1:24.2.3.255	
	M-Bus Value channel 1, instance 4	4	0-1:24.2.4.255	
	M-Bus Value channel 2, instance 1	4	0-2:24.2.1.255	
	M-Bus Value channel 2, instance 2	4	0-2:24.2.2.255	
	M-Bus Value channel 2, instance 3	4	0-2:24.2.3.255	
	M-Bus Value channel 2, instance 4	4	0-2:24.2.4.255	
	M-Bus Value channel 3, instance 1	4	0-3:24.2.1.255	
	M-Bus Value channel 3, instance 2	4	0-3:24.2.2.255	
	M-Bus Value channel 3, instance 3	4	0-3:24.2.3.255	
	M-Bus Value channel 3, instance 4	4	0-3:24.2.4.255	
	M-Bus Value channel 4, instance 1	4	0-4:24.2.1.255	
	M-Bus Value channel 4, instance 2	4	0-4:24.2.2.255	
	M-Bus Value channel 4, instance 3	4	0-4:24.2.3.255	
	M-Bus Value channel 4, instance 4	4	0-4:24.2.4.255	
	M-Bus Device ID 1 channel 1	1	0-1:96.1.0.255	
	M-Bus Device ID 1 channel 2	1	0-2:96.1.0.255	
	M-Bus Device ID 1 channel 3	1	0-3:96.1.0.255	
	M-Bus Device ID 1 channel 4	1	0-4:96.1.0.255	
	M-Bus Device ID 2 channel 1	1	0-1:96.1.1.255	
	M-Bus Device ID 2 channel 2	1	0-2:96.1.1.255	
	M-Bus Device ID 2 channel 3	1	0-3:96.1.1.255	
	M-Bus Device ID 2 channel 4	1	0-4:96.1.1.255	
	Profile status for M-Bus Master Load profile 1	1	0-1:96.10.3.255	
	Profile status for M-Bus Master Load profile 2	1	0-2:96.10.3.255	
	Profile status for M-Bus Master Load profile 3	1	0-3:96.10.3.255	
	Profile status for M-Bus Master Load profile 4	1	0-4:96.10.3.255	

	Object name	IC class	OBIS Code	protected
	M-Bus Master Load profile for channel 1	7	0-1:24.3.0.255	
	M-Bus Master Load profile for channel 2	7	0-2:24.3.0.255	
	M-Bus Master Load profile for channel 3	7	0-3:24.3.0.255	
	M-Bus Master Load profile for channel 4	7	0-4:24.3.0.255	
	M-Bus Master Disconnect control object 1	70	0-1:24.4.0.255	
	M-Bus Master Disconnect control object 2	70	0-2:24.4.0.255	
	M-Bus Master Disconnect control object 3	70	0-3:24.4.0.255	
	M-Bus Master Disconnect control object 4	70	0-4:24.4.0.255	
	M-Bus Disconnect control scheduler	22	0-1:15.0.1.255	
	M-Bus Disconnector script table	9	0-1:10.0.106.255	
	Event Objects -M-Bus Master Control logs 1	1	0-1:96.11.4.255	
	Event Objects -M-Bus Master Control logs 2	1	0-2:96.11.4.255	
	Event Objects -M-Bus Master Control logs 3	1	0-3:96.11.4.255	
	Event Objects -M-Bus Master Control logs 4	1	0-4:96.11.4.255	
	M-Bus Master Control log object 1	7	0-1:24.5.0.255	
	M-Bus Master Control log object 2	7	0-2:24.5.0.255	
	M-Bus Master Control log object 3	7	0-3:24.5.0.255	
	M-Bus Master Control log object 4	7	0-4:24.5.0.255	
	M-Bus Event Log	7	0-0:99.98.3.255	
19	**Local communication - IEC/HDLC Optical port**			
	IEC HDLC setup -HDLC Optical port	23	0-0:22.0.0.255	
	IEC Optical Local port setup	19	0-0:20.0.0.255	
	IEC RS-485 Local port setup	19	0-2:20.0.0.255	
	IEC HDLC setup -Consumer Information Interface	23	0-1:22.0.0.255	
	IEC HDLC setup -HDLC electrical port (RS485)	23	0-2:22.0.0.255	
20	**Other Objects**			
	Active Quadrant	1	1-0:94.98.10.255	
	Active Quadrant L1	1	1-0:94.98.11.255	
	Active Quadrant L2	1	1-0:94.98.12.255	
	Active Quadrant L3	1	1-0:94.98.13.255	
	Phase Presence	1	1-0:94.98.14.255	
	Unbalance Load Detection	1	0-0:94.98.15.255	
	Transformer ratio – current (numerator)	1	1-0:0.4.2.255	X
	Transformer ratio – voltage (numerator)	1	1-0:0.4.3.255	X
	Transformer ratio – current (denominator)	1	1-0:0.4.5.255	X
	Transformer ratio – voltage (denominator)	1	1-0:0.4.6.255	X
	Nominal Voltage	3	1-0:0.6.0.255	
	Pulse constant – Outputs	1	1-0:0.3.3.255	X
	Pulse length – Outputs	1	1-0:0.9.8.255	X
	Demand reset lockout time	3	1-0:0.9.12.255	
	General Display readout List-Auto Scroll	7	0-0:21.0.1.255	
	General Display readout List-Auto Scroll Protected	7	0-0:21.0.21.255	X
	Alternative Display readout List-Manual Scroll	7	0-0:21.0.2.255	
	Alternative Display readout List-Manual Scroll Protected	7	0-0:21.0.22.255	X
	Service Display readout List-Manual Scroll	7	0-0:21.0.3.255	
21	**Abstract objects - TCP/IP profile setup**			
	TCP-UDP setup	41	0-0:25.0.0.255	
	IPv4 setup	42	0-0:25.1.0.255	
	IPv6 setup	48	0-0:25.7.0.255	
	PPP setup	44	0-0:25.3.0.255	

	Object name	IC class	OBIS Code	protected
22	**Abstract objects - Push setup**			
	Push Setup interval-01	40	0-1:25.9.0.255	
	Push Setup-interval-02	40	0-2:25.9.0.255	
	Push setup - Interval_03	40	0-3:25.9.0.255	
	Push setup -On Alarm	40	0-4:25.9.0.255	
	Push setup -On Connectivity	40	0-0:25.9.0.255	
	Push setup -On Installation	40	0-7:25.9.0.255	
	Push script table	9	0-0:10.0.108.255	
	Push action scheduler – Interval_01	22	0-1:15.0.4.255	
	Push action scheduler - Interval_02	22	0-2:15.0.4.255	
	Push action scheduler - Interval_03	22	0-3:15.0.4.255	
23	**Remote communication - Abstract Objects for Network Mgmt**			
	Auto connect	29	0-0:2.1.0.255	
	MAC address setup	43	0-0:25.2.0.255	
24	**Remote communication - GSM/GPRS Setup Objects**			
	GPRS modem setup	45	0-0:25.4.0.255	
	Modem Configuration	27	0-0:2.0.0.255	
	Auto Answer	28	0-0:2.2.0.255	
	GPRS Keep Alive Time Interval	1	0-0:94.98.19.255	
	Local Authentication protection	1	0-0:94.98.20.255	
	Disable/Enable Manual Demand Reset	1	0-0:94.98.27.255	
	International Mobile Station Equipment Identity (IMEI)	1	0-0:94.98.22.255	
	Profile compression type	1	0-0:94.98.21.255	
	Fraud Lock Time	1	0-0:94.98.24.255	