

## MAXREFDES42# BOM

Designation	Qty	Description
C1, CVCC	2	1UF 50V 10% X7R ceramic capacitor (0603) Taiyo Yuden UMK107AB7105KA-T
C3, C14, C15, C18, C19	5	1UF 10V 10% X5R ceramic capacitor (0402) TDK C1005X5R1A105K
C4B,C5,C7,C10,C17	5	0.1UF 16V 10% X5R ceramic capacitor (0201) TDK C0603X5R1C104K030BC
C8,C9	2	15PF 50V 5% NP0 ceramic capacitor (0201) TDK C0603C0G1H150J030BA
C4A,C6	2	1UF 6.3V 20% X5R ceramic capacitor (0201) TDK C0603X5R0J105M030BC
C11, C12, C13	3	0.1UF 50V 10% X7R ceramic capacitor (0402) Taiyo Yuden UMK105B7104KV-FR
C16	1	22UF 10V 20% X5R ceramic capacitor (0603) TDK C1608X5R1A226M
CIN	1	1UF 100V 10% X7S ceramic capacitor (0805) TDK C2012X7S2A105K
COUT	1	10UF 10V 20% ceramic capacitor (0805) TDK C2012X5R1A106M
CN1	1	M12-A 4-pin Male connector (M12_Edge) Binder 09-0431-212-04
CN2	1	8-pin Female connector (2x4x1.27) Samtec CLP-104-02-G-D
CN3	1	4-pin header (1x4) Sullins PEC36DAAN
CN4	1	M12-A 4-pin Female connector with back mounting PG9 HTP 12FS4000-PG9
TB1	1	Grey 4 port Wire Push-In Terminal Block Wago 250-404
D17	1	Yellow 1mA Led, (0402) Rohm SML-P12YTT86

D18	1	Red 1mA Led, (0402) Rohm SML-P12UTT86
D19	1	Green 1mA Led, (0402) Rohm SML-P12PTT86
D24, D25	2	36V TVS Diode with 55V clamp (3 SOT23) Semtech SDC36C.TCT
L1	1	47uH, 0.65 DCR, 0.56A Isat COILCRAFT LPS4018-473MR
R0A, R11, RP1, RP2	4	0 Ohm resistor 50V (0402) 0.125W Vishay/Dale CRCW04020000Z0EDHP
RV3, RVP	2	10 Ohm 5% resistor 50V (0402) any
R1	1	1 Ohm 1% resistor 50V (0402) 0.125W / 353mA max Vishay/Dale CRCW04021R00FKEDHP
R2, R3	2	20k Ohm 5% resistor (0603) any
R8	1	1.5k Ohm 5% resistor (0402) 0.1W any
R7	1	10k Ohm 5% resistor (0201) 0.05W / 2.2mA max any
R13	1	400 Ohm +/-0.1% resistor 0.2ppm/°C 0.2W (0805) Vishay 804-0805
R16	1	100k Ohm 5% resistor (0201) any
R18	1	0 Ohm resistor (0201) any
R19	1	4.7k Ohm 5% resistor (0603) any
RTD	1	Industrial RTD Sensor Pt 100 2-wire (Thru Hole) Connect into the 2 center channels of TB1 Heraeus 32208548
U1	1	IO Link Device Transceiver (25 WLP) Maxim MAX14821EWA+
U2	1	Low Power uC (25 WFLGA) Renesas R5F10E8EALA#U0
U3	1	60V 300mA Ultra Small Step-Down Converter (8 TDFN) Maxim MAX15062BATA+

U4	1	RTD-to-Digital Converter (20 TQFN-EP) Maxim MAX31865ATP+
U5	1	Green SCE5743 4-char 5x7 Dot Matrix Display (19.91x 10.16mm) Osram Q68100A1372
U6, U7	2	Level Translator Maxim MAX1840EUB+
Y1	1	18.432MHz Crystal (4 SMD) Mercury X22-18.432-12-30/30/4085
C2, C2B	0	Not Installed. CAP CER 0.1UF 50V 10% X7R (0402) Taiyo Yuden UMK105B7104KV-FR
CN5	0	2-pin header (1x2) Sullins PEC36DAAN
CV5	0	Not installed. CAP CER 1UF 10V 10% X5R (0402) TDK C1005X5R1A105K
R15	0	400 Ohm 0.1% resistor 5ppm\oC 1/8W Thru Hole Vishay PTF56400R00BZEK
SW1	0	Momentary Push Button Switch PANASONIC EVQ-Q2K03W
PCB	1	PC board: Mojave (MAXREFDES42#) IO Link RTD Temp Sensor

All components not listed above are not installed.