

# MAXREFDES71 BOM

Designation	Qty	Description
24V, 18V, -18V, 5V, 5VD, -1.25V	6	Red Multipurpose test point Keystone 5010
C1, C2, C47 - C52, C63	9	47pF 5%, 50V, C0G ceramic capacitor (0603) Murata GRM1885C1H470J
C3, C4, C7 - C12, C29 - C36, C53 - C58, C62, C64, C67, C85 - C87, C98, C100, C101, C103	32	0.1uF 10%, 50V, X7R ceramic capacitor (0603) Murata GRM188R71H104K
C5, C6	2	2200pF 5%, 50V, C0G ceramic capacitor (0603) Murata GRM1885C1H222J
C13, C14, C43 - C46, C65, C89, C90, C102	10	10uF 10%, 10V, X7R ceramic capacitor (0805) Murata GRM21BR71A106K
C15 - C28	14	0.1uF 10%, 16V, X7R ceramic capacitor (0402) Murata GCM155R71C104K
C37 - C40	4	0.01uF 10%, 50V, X7R ceramic capacitor (0603) Murata GRM188R71H103K
C41, C42, C61, C97	4	1uF 10%, 16V, X7R ceramic capacitor (0603) Murata GRM188R71C105K
C59, C60	2	5pF 5%, 50V, C0G ceramic capacitor (0603) Murata GRM1885C1H5R0J
C66, C88, C95, C96, C126 - C128	7	10uF 10%, 50V, X7R ceramic capacitor (1210) Murata GRM32ER71H106K
C82 - C84, C129 - C131	6	1uF 10%, 25V, X7R ceramic capacitor (0603) Murata GRM188R71E105K
C99	1	47pF 10%, 16V, C0G ceramic capacitor (0603) Kemet C0603C470K4GACTU
C91 - C94	4	1uF 10%, 25V Tantalum capacitor (1206) Kemet T494A105K025AT
C110, C111	2	100pF 5%, 50V, C0G ceramic capacitor (0402) Murata GCM1555C1H101Z13D
C116, C117	0	Not Installed, capacitor (0402)
C118	1	1000pF, 10%, 2kV, X7R (1808) TDK C4520X7R3D102K130KA
C119 - C125	0	Not Installed, capacitor (0603)
D1	1	Red LED (0603) Panasonic LNJ208R8ARA
D2, D3	2	60V 500mA Rectifier (DFN3030-4) Diodes Inc. SBR05M60BLP-7
D10, D11	2	30V 500mA Schottky Diode (SOD-123) On Semi MBR0530T1G
F1 - F4	4	Feed through Capacitor (0805) AVX W2H13C1048AT1F
F5 - F6	2	Feed through Capacitor (0805) Murata NFM21PC475B1A3D
FB1 - FB14	14	Ferrite Bead (0603) (0805 optional footprint on PCB) TDK MMZ1608B102C
GND (x6), PGND	7	Black multipurpose test points Keystone 5011

I1-, I2-, V1+/I1+, V1-/I1-, V2+/I2+, V2-/I2-	6	White (Test Point) Analog Input Connector Keystone 5012
IOUT1, IOUT2, VOUT1, VOUT2	4	White (Test Point) Analog Output Connector Keystone 5012
J1	1	FMC LPC Connector SAMTEC ASP-134604-01
JU1 - JU5	5	3-pin header Molex 22-28-4363
R1 - R4	4	24k ohm 1% resistor (0402) Panasonic ERA-2AEB243X
R5 - R8	4	10k ohm 1%, resistor (0402) Panasonic ERA-2AEB103X
R9, R10	2	499 ohm 1%, 0.4W (1206)
R11, R12	2	150 ohm 1% resistor (0603)
R13 - R20, R79	9	1k ohm 5% resistor (0402)
R21, R22	2	3.48k ohm 1% resistor (0402)
R23, R24	2	10.2k ohm 1% resistor (0402)
R25 - R28	4	10k ohm 1% resistor (0402) Vishay MCS0402MC1002FE000
R29, R30	2	2k ohm 1% resistor (0402) Panasonic ERJ-2RKF2001X
R31, R32	2	1.8k ohm 1% resistor (0402) Vishay CRCW04021K80FKED
R33 - R36	4	100 ohm 1% resistor (0402) Vishay CRCW0402100RFKED
R37, R38	2	5.1k ohm 5% resistor (0603)
R55	1	154k ohm 1% resistor (0402)
R56	1	11.5k ohm 1% resistor (0402)
R57, R58	2	120 ohm 1% resistor (0402) Panasonic ERJ-2RKF1200X
R59	1	1.58k ohm 1% resistor (0402)
R60	1	0 ohm 1% resistor (0402)
R61, R62	0	Not Installed, resistor (0402)
R76, R77	2	5.23k ohm 1% resistor (0402)
R78	1	2k ohm 5% resistor (0402)
R80 - R87	0	Not Installed, resistor (0603)
R88 -R90	3	10k ohm 5% resisotr (0603)
T1	1	1:1:1 Transformer Sumida 05220-T012
T2	1	3:1 Transformer Sumida 05220-T013
U1, U19 - U21	4	Dual 36V Op-Amp (8 TDFN-EP) Maxim MAX9633ATA+
U2, U3	2	16-bit Bipolar ADC (12 TDFN) Maxim MAX11166ETC+
U4	1	High voltage LDO (8 TDFN-EP) Maxim MAX8719ETA+
U5, U6	2	5V LDO (SOT23-6) Maxim MAX8881EUT50+
U7, U8	2	Negative LDO (D2PAK) On Semi LM337BD2TG

U9 - U11, U13 - U16	7	6-Ch Digital Isolator (16 SO) Maxim MAX14850ASE+
U12, U22	2	4.096V Reference (8 SO) Maxim MAX6126AASA41+
U17, U18	2	16-bit DAC (24 TQFN) Maxim MAX5316GTG+
U23	1	36V H-Bridge Transofmer Driver for Isolated Supplies (10 TDFN-EP) Maxim MAX13256ATB+
PCB	1	PC board: Greenbrea (MAXREFDES71#) Dual input and output analog IO