

Designation	Qty	Description
AIN	1	White (Test Point) Analog Input Connector Keystone 5012
C1	1	0.01uF 10%, 100V, X7R ceramic capacitor (0603) Murata GRM188R72A103K
C2, C6, C10, C13, C28	5	47pF 5%, 50V, C0G ceramic capacitor (0402) TDK C1005C0G1H470J
C3, C5, C7, C9, C12, C14, C15, C17, C18, C22, C23, C25, C26, C29, C30, C33	16	0.1uF 10%, 25V, X7R ceramic capacitor (0402) TDK C1005X5R1E104K
C4, C24	2	1.0uF 10%, 10V, X5R ceramic capacitor (0402) TDK C1005X5R1A105K
C8	1	4.7uF 10%, 16V, X7R ceramic capacitor (0805) Murata GRM219R71C475K
C11, C16, C21, C27, C31, C32, C34	7	10uF 10%, 10V, X5R ceramic capacitor (0603) TDK C1608X5R1A106K
C19, C20	2	10uF 10%, 25V, X7R ceramic capacitors (1206) Murata GRM31CR71E106K
D1 - D4	4	30V 1A Schottky Diode (SOD-123) Diodes Inc. B130LAW-7-F
D5	1	5.1V Zener Diode (SOD-323) Central Semiconductor CMDZ5231B+
EXT_V+	1	Red multipurpose test point Keystone 5010
EXT_V-	1	Brown multipurpose test point Keystone 5125
FB1-FB5	5	600 ohm@100MHz ferrite beads (0603) TDK MMZ1608B601C
GND1, GND2	2	Black multipurpose test points Keystone 5011
J1	1	2 x 6 right angle male header PMOD compatible Samtec TSW-106-08-S-D-RA
JU1 - JU3	3	3-pin headers (strip, cut to fit) Sullins PEC36SAAN
R1	0	Not Installed, resistor (0603)

R3	1	49.9ohm 1% resistor (0603)
R4	1	300k ohm 1% resistor (0402)
R5, R6, R9, R11	0	Not Installed, resistor (0402)
R7, R10, R12,	3	0 ohm 5% resistor (0402)
R8	1	1k ohm 5% resistor (0402)
R2, R13 - R16	5	0 ohm 5% resistor (0603)
R17	1	357k ohm 1% resistor (0603)
R18	1	100k ohm 1% resistor (0603)
R19	1	3k ohm 0.1% resistor (0603)
R20	1	2k ohm 0.1% resistor (0603)
T1	1	198uH 3W 1:1:1:1 turn Transformer Halo Electronics TGM-H251NF
U1	1	20V Precision Low-Noise Op-Amp (5 SOT23) Maxim MAX44250AUK+
U2	1	16-Bit, +5V 200ksps ADC (10 uMAX) Maxim MAX11100EUB+
U3	1	Ultra-High-Precision, Ultra-Low-Noise, Voltage Reference (8 SO) Maxim MAX6126AASA41+
U4	1	3W Primary-Side Transformer H-Bridge Driver (8 SO-EP) Maxim MAX256ASA+
U5	1	Six-Channel Digital Isolator (16 SO) Maxim MAX14850ASE+
U6, U7, U9	3	350mA, 16.5V input, low-dropout linear regulators (8 SO) Maxim MAX1659ESA+
U8	1	Negative Output LDO (5 SOT-23) Maxim MAX1735EUK30+
SU1-SU3	3	Shunts
PCB	1	PC board: Fresno (MAXREFDES11#) 16-Bit High Accuracy 0-10V Input ISO AFE