

Designator	Quantity	Supplier Part Number	Manufactuer Part Number	Manufacturer	Supplier	Description
C1, C4, C6, C7, C8		5 311-1140-1-ND		YAGEO	Digi-Key Electronics	Capacitor
C2, C5		2 1276-6454-1-ND	-	Samsung Electro-Mechanics	Digi-Key Electronics	Capacitor
C2, C5		1 1276-CL21A226MAYNNNECT-ND	+	Samsung Electro-Mechanics	Digi-Key Electronics	Capacitor
D1		1 S5DC-FDICT-ND	+	Diodes Incorporated	Digi-Key Electronics	Diode Standard 200 V 5A Surface Mount SMC
Di		1 F6271CT-ND	+	Littelfuse Inc.	Digi-Key Electronics	TVS Diode
D2			+			
D3		1 S5GC-FDICT-ND	+	Diodes Incorporated	Digi-Key Electronics	Diode
J1		1				2 Pin Jumper
P1, P3		2 732-10955-ND		Würth Elektronik	Digi-Key Electronics	2 Position Wire to Board Terminal Block Horizontal with Board 0.197" (5.00mm) Through Hole
P2		1				2 Pin Header
Q1		1 SSM3K123TULFCT-ND	SSM3K123TU,LF	Toshiba Semiconductor and Storage	Digi-Key Electronics	N-Channel 20 V 4.2A (Ta) 500mW (Ta) Surface Mount UFM
R1		1 311-10.2KCRCT-ND		YAGEO	Digi-Key Electronics	Standard Resistor
R2		1 311-1.62KCRCT-ND		YAGEO	Digi-Key Electronics	Standard Resistor
R3		1 311-2.55MCRCT-ND		YAGEO	Digi-Key Electronics	Standard Resistor
R4		1 311-107KCRCT-ND		YAGEO	Digi-Key Electronics	Standard Resistor
R5, R6, R7		3 311-10KARCT-ND		YAGEO	Digi-Key Electronics	Standard Resistor
R8		1 P1MDACT-ND		Panasonic Electronic Components	Digi-Key Electronics	Standard Resistor
R9, R10		2 541-4129-1-ND		Vishay Dale	Digi-Key Electronics	Standard Resistor
RPI1		1				Raspberry Pi 40 Pin Header
U1		1 MCP3021A5T-E/OTCT-ND		Microchip Technology	Digi-Key Electronics	10 Bit Analog to Digital Converter 1 Input 1 SAR SOT-23-5
U2		1 2725-K7805-3AR3-ND		Mornsun America, LLC	Digi-Key Electronics	Non-Isolated PoL Module DC DC Converter 1 Output 5V 3A 8V - 36V Input
U3		1 505-LT6700CS6-2#TRMPBFCT-ND	+	Analog Devices Inc.	Digi-Key Electronics	Comparator with Voltage Reference Open-Collector TSOT-23-6
114		1 MCP9808T-E/MSCT-ND	†	Microchip Technology	Digi-Key Electronics	Temperature Sensor Digital, Local -40°C ~ 125°C 12 b 8-MSOP
LIE		1 150-MCP96L01T-E/MXCT-ND	+	Microchip Technology	Digi-Key Electronics	Thermocouple EMF to Temperature Converter, ±1.5°C Maximum Accu
05		I IOU-IVICE FOLD I I = L/IVIAC I = IVID		Microcrip recritiology	Digi-key Liectronics	THEITIOCOUPIE LIVII to Temperature Converter, ±1.3 c Maximum Accu