

Comment	Value	Footprint	Part Number	Designator	Quantity
Capacitor	0.1uF	0805		C1, C9, C13, C30	4
Electrolytic Capacitor	270uF	12.5mm Electrolytic Capacitor	100ZLJ220M12.5X25	C2, C5, C10, C15	4
Capacitor	10uF	0805		C3, C4, C19, C28	4
Electrolytic Capacitor	22uF	10mm Electrolytic Capacitor	A759MS226M2AAAE045	C6, C11, C16, C20, C34	5
Capacitor	1uF	1206		C7, C8	2
Capacitor	10uF	1210		C12	1
Capacitor	330nF	0805		C17	1
Capacitor	1uF	0805		C22, C24, C25, C27, C29, C31	6
Capacitor	DNP	0805		C32, C33	2
48V - 15V		TB002-500-02BE	TB002-500-02BE	CONTROL PWR, PELTIER PWR	2
LED		0805 for LED		D2, D4, D5, D6	4
Schottky		SOD-128	PMEG6030EVPX	D3	1
Diode		SOT-23-3	BAS16LT1G	D8, D10	2
Connect to Earth		TB002-500-02BE	TB002-500-02BE	EARTH CONN	1
ESD Diode Array		SOIC-16	SP720ABG	ESD1	1
Fuse		4250 Fuse Holder	4250	F1	1
Fuse		1206 Fuse	SF-1206S300W-2	F2	1
Fan Header		0470531000		FAN1, FAN2	2
SMD Metal Jumper on PCB		0805 PCB Jumper		J1, J2	2
Inductor	5.2uH	CDRH104R	CDRH104RNP-5R2NC	L3	1
2-Pos Terminal Block		691210910002	691210910002	NTC_COLD, NTC_HOT	2
To Peltier Plate(s)		TB002-500-02BE	TB002-500-02BE	PELTIER_CONN	1
PICKIT 4 Header		HDR1X6		PICKIT	1
PTC Fuse	200mA	PTC 0805	MF-PSHT020KX-2	PTC1, PTC2	2
PTC Fuse	50mA	PTC 0805	MF-PSHT005KX-2	PTC5, PTC6	2
NMOS		TO-252	FDD390N15ALZ	Q1	1
Resistor	10k	0805		R1, R6, R13, R14, R16, R22, R23, R25	8
Resistor	470	0805		R2	1
Resistor	1k	0805		R3, R24	2
Resistor	4.7k	0805		R4, R7, R8	3
Resistor	10m	Wide 1206	CSNL1206FT1L00	R5	1
Resistor	27k	0805		R9, R10, R19, R28	4
Resistor	0	0805		R11, R12	2
Resistor	140k	0805		R15	1
Resistor	100	0805		R17, R18, R26, R27	4
NTC	10k @ 25C	0805	SM103J1K	R20	1
Resistor	DNP	0805		R21	1
Resistor	2.2k	0805		R29	1
SPST Switch		PTS636-THT		RST_SW	1
Header 6		HDR1X6		SERIAL_DEBUG	1
Thermal Conductor		0805	QB0805A40WYTD	THM_C1, THM_C2, THM_C3	3
Test Point		Test Point, 40mil hole	526x, [NoValue]	TP1, TP2, TP5, TP6, TP7, TP8, TP12, TP13, TP14, TP15, TP19, TP20, TP21, TP22	14
Test Point		Test Point, 60mil SMD		TP16, TP17, TP18	3
MCP1754S		SOT-223-3	MCP1754ST-5002E/DB	U1	1
PIC16F17146		PDIP-20		U2	1
TC1413(N), MOSFET Driver		SOIC-8	TC1413N	U3	1
MCP6566		SOT23-5		U4	1
MCP16363		VDFN 3x3x0.9	MCP16363T-E/NMX	U6	1
Header 6X2		HDR2X6		UI_BOARD_CONN	1
Zener	7.5V	SOT-23-3	BZX84B7V5-7-F	Z2	1