

Comment	Description	Designator	Footprint	LibRef	Quantity
330uF	Capacitor	C1	J10	Cap2	1
100uf	Polarized Capacitor (Radial)	C2	J10	Cap Pol1	1
470p	Capacitor	C8	0805C	Cap	1
0.1uF	Capacitor	C9, C12, C14, C17, C18	0805C	Cap	5
2.2nf	Capacitor	C11	0805C	Cap	1
MBRB40250CT	Schottky Rectifier	D1, D2	D2PAK	MBRB1545CT	2
SMCJ18A	Zener Diode	D3, D11, D12	SMCJ18A	D Zener	3
MURD860	Schottky Rectifier	D6	DPAK	MBRB1545CT	1
mmsz9v1t1g	Zener Diode	D7, D8	SOD-123	D Zener	2
SMBJ6.5CA	Zener Diode	D9, D13	SMBJ6.5	D Zener	2
M7	Default Diode	D10, D14	SMA	Diode	2
Comment	Header, 2-Pin	Designator1	XT60PW	Header 2	1
LED2	Typical RED, GREEN, YELLOW, AMBER GaAs LED	DS1, DS2	0805A	LED2	2
LED3	Typical RED, GREEN, YELLOW, AMBER GaAs LED	DS3	0805A	LED2	1
20A	20A, Fuse	F1, F4	20A	Fuse 2, Fuse 1	2
5A	Fuse	F6	3216F	Fuse 1	1
CAP+	Socket	J1, J3	PIN1	Socket	2
CAP-	Socket	J2, J4	PIN1	Socket	2
Header 4X2	Header, 4-Pin, Dual row	JP1	2*4_2.5mm	Header 4X2	1
Header 2X2	Header, 2-Pin, Dual row	JP3	2*2_2.5mm	Header 2X2	1
68uH	Inductor	L2	L2	Inductor	1
IPP200N25N	HEXFET Power MOSFET	NQ1, NQ2	TO-247	IRFP460	2
	Header, 4-Pin	P5	CONNECTOR_CAP	Header 4	1
BNC	BNC Elbow Connector	P7, P8, P9, P10	hole	BNC	4
IRFR12N25D	N-Channel Power MOSFET	Q1	DPAK	NMOS-2	1
9014	NPN General Purpose Amplifier	Q2, Q4, Q5	SOT23A	BC817-40	3
4.7k	Resistor	R1, R16, R17, R36	0805R	Res1	4
100	Semiconductor Resistor	R2, R4	0805R	Res Semi	2
10k	Semiconductor Resistor, Semiconductor Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor	R3, R5, R6, R9, R11, R13, R29, R30, R41, R42	0805R	Res Semi, Res Semi, Res1, Res1, Res1, Res1, Res1, Res1, Res1, Res1	10
1M	Resistor	R7	0805R	Res1	1
10	Resistor	R8	0805R	Res1	1
1k	Resistor	R10, R15	0805R	Res1	2
470	Resistor	R12	0805R	Res1	1
0.2	Resistor	R14	0.2_4527R	Res1	1
27k	Resistor	R18	0805R	Res1	1
200k	Resistor	R20	0805R	Res1	1
3.9k	Resistor	R21	0805R	Res1	1
20	Resistor	R117	20_2512r	Res1	1
power	Header, 2-Pin, Dual row	S1	Rocker_Switch	Header 2X2	1
SW-SPDT	SPDT Subminiature Toggle Switch, Right Angle Mounting, Vertical Actuation	S2	SMALL_switch	SW-SPDT	1
UC3843P	Current-Mode PWM Controller	U4	SO-G8	UC3843P	1
LM393		U6	LM393_SO-G8	LM393	1