

Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF/400V	Capacitor	C1, C2	CX-1	Cap	2
2.2nF/1kV	Capacitor	C3, C4	Cy-1	Cap	2
47uF/400V	Polarized Capacitor (Axial)	C5	cd200	Cap Pol2	1
2.2nF/1kV	Capacitor	C6, C32	C-HV	Cap	2
0.1uF/63V	Capacitor	C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C26, C30, C36, C38, C39, C41, C42	C0805	Cap	24
1nF/100V	Capacitor	C24, C25, C31, C37	C0805	Cap	4
1000uF/25V	Polarized Capacitor (Axial)	C27, C28, C29, C33, C34, C40	cd70	Cap Pol2	6
470pF/1kV	Capacitor	C35	C-HV	Cap	1
1000uF/25V	Polarized Capacitor (Axial)	C43	cd50	Cap Pol2	1
8A/600V	Full Wave Diode Bridge	D1	bridge2a	Bridge1	1
BYC10600	Fast Soft Recovery Rectifier Diode	D2	TO-220AC	20ETF02	1
1N4148	3 Amp General Purpose Rectifier	D3, D5, D6, D7, D8, D9, D17	do-35	Diode 1N5402	7
FR207	3 Amp General Purpose Rectifier	D4, D11	do-41v	Diode 1N5402	2
18V	Zener Diode	D10, D12	DIODE-0.7	D Zener	2
30CPF12	Fast Soft Recovery Rectifier Diode	D13	TO-247AC	30CPF12	1
33V/1W	Zener Diode	D14	DIODE-0.7	D Zener	1
SR140	3 Amp General Purpose Rectifier	D15	SMA	Diode 1N5402	1
FR107	High Conduclance Ultra Fast Diode	D16	1N4000	Diode 1N4150	1
1N4148	Default Diode	D18	SOD-323	Diode	1
FR105	3 Amp General Purpose Rectifier	D19	SMA	Diode 1N5402	1
250V/5A	Fuse	F1	r0.5w-v	Fuse 1	1
Input		J1		Input	1
Output		J2		Output	1
1mH/4.5A	Magnetic-Core Inductor	L1	L6MM	Inductor Iron	1
47uH/10A	Magnetic-Core Inductor	L2	L6MM	Inductor Iron	1
4.7uH/1A	Magnetic-Core Inductor	L3	L7MM	Inductor Iron	1
FDA18N50	HEXFET N-Channel Power MOSFET	Q1	TO-247FP	IRFIP450	1
10N60	HEXFET Power MOSFET	Q2, Q3	TO-220_FullPak	IRFIBC40G	2
75K/1W	Resistor	R1, R6, R30, R33, R35	R1W-V	Res2	5
75K/1W	Resistor	R2, R45	R1/2-V	Res2	2
1K	Resistor	R3, R4, R5, R7, R9, R10, R15, R18	R1206	Res2	8
33	Resistor	R8, R11, R12, R13, R14, R16, R17, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R31, R34, R41, R43, R49, R52, R53, R54, R57, R58	R0805	Res2	28
20K	Resistor	R32, R36, R40, R42, R47, R48, R50, R51, R55, R56	R0805	Res2	10
1K	Resistor	R37, R38	R0805	Res2	2
1K	Potentiometer	R39	RV	RPot	1
680K	Resistor	R44, R46	R0805	Res2	2
10mH	Transformer (Coupled Inductor Model)	T1	CPF-1	Trans Coupl	1
Trans	Transformer (Coupled Inductor Model)	T2	CPF-1	Trans Coupl	1
Transfer	Three-winding Transformer (Non-Ideal)	T3	E20-1	Trans3	1
FAN4800A		U1		FAN4800	1
IR2106		U2		IR2106	1
EL817	4-Pin Phototransistor Optocoupler	U3, U8	DIP-4	Optoisolator1	2
TL431		U4, U6	TO-92-1	431	2
LM358AN	Low Power Dual Operational Amplifier	U5	N08E	LM358AN	1
RM3261		U7		RM3261	1