

Count	ComponentName	RefDes	PatternName	Value	Description	Digikey p/n	Price Ea	Amount	EST
3	UF1002	D12,13,14	AFL-W2/X1.8D	UF1002	1.0 Ampere 100V	UF1002DICT-ND	\$ 0.29	\$ 0.86	
8	1N4744A	D2,3,4,5,8,9,10,11	AFL-W2/X1.8D	15V	One Watt Zener	1N4744ADICT-ND	\$ 0.25	\$ 1.98	
3	1.5KE51CA	D1,6,7	TVS DIODE	1.5KE51CA	TVS DIODE	1.5KE51CADICT-ND	\$ 0.74	\$ 2.22	
1	10PINHEADER	CN5	10PINHEADER		10 PIN HEADER	MHS10K-ND	\$ 1.54	\$ 1.54	
2	CAP100	C2,3	CAP100	.1uF100V	Capacitor POLY	P4656-ND	\$ 0.31	\$ 0.62	
2	CAP100	C4,6	CAP100	1.0uF50V	Capacitor	P2073-ND	\$ 0.67	\$ 1.34	
1	CAP100RP	C5	CAP100RP	220uF16V	Radial Polarize	P5139-ND	\$ 0.23	\$ 0.23	
1	CAP1206	C7	RC1206	.47uF50V		PCF1130CT-ND	\$ 0.63	\$ 0.63	
2	CAPRP700	C1,8	CAPRP700	680uF63V	Radial Polarize	P11276-ND	\$ 2.49	\$ 4.98	
1	FAN CONN	J1	FAN 80MM (3.15")			???	\$ 12.00	\$ 12.00	X
1	HIP4081A	U2	DIP20		Mosfet Driver		\$ 5.00	\$ 5.00	X
1	INDUCTOR 850	L1	IND850	2474-31L	330uH 740ma	DN7431-ND	\$ 2.94	\$ 2.94	
16	IRF1405	Q1-16	TO220ABGDS	IRF1405	N Channel Mosfet		\$ 2.48	\$ 39.68	
4	LG WIRE	CN1-4	LG WIRE	10 AWG	WIRE RED&BLK		\$ 1.00	\$ 4.00	X
1	LM2574HVN-12	U1	DIP8		12V Regulator	LM2574HVN-12-ND	\$ 3.88	\$ 3.88	
1	RESSMT1206	R29	RC1206	1k	Resistor SMT	P1.0KECT-ND	\$ 0.03	\$ 0.03	
1	RESSMT1206	R11,21-25	RC1206	10K	Resistor SMT	P10.0KFCT-ND	\$ 0.04	\$ 0.04	
16	RESSMT1206	R2-9,13-20	RC1206	15	Resistor SMT	P15ECT-ND	\$ 0.05	\$ 0.81	
2	RESSMT1206	R1,10	RC1206	33	Resistor SMT	P33ECT-ND	\$ 0.05	\$ 0.10	
1	RESSMT1206	R12	RC1206	90.9K	Resistor SMT	P90.9KFCT-ND	\$ 0.12	\$ 0.12	
1	RESSMT1206	R28	RC1206	14K	Resistor SMT	P14.0KFCT-ND	\$ 0.12	\$ 0.12	
2	RESSMT1206	R26,27	RC1206	220K	Resistor SMT	P220KECT-ND	\$ 0.09	\$ 0.19	
8	LLSD101ACT	*** see below	RC1206		Fast Schottky Diode	LLSD101ACT	\$ 0.36	\$ 2.88	
1	Led	D15	LED		Light Emitting Diode	67-1105-ND	\$ 0.13	\$ 0.13	
4	8-32*1" standoff				Fan Mounting		\$ 0.10	\$ 0.40	
6	8-32*.5 standoff				Board Mounting		\$ 0.10	\$ 0.60	
1	PC BOARD			3.15" X 4.5" Double Sided 4 oz copper,SMOBC,top silk			\$ 8.00	\$ 8.00	X

TOTAL	\$ 95.32
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*** Install these diodes in D16-D23 Or D24-D31 depending on if you are PWMing the AHI,BHI Or ALI,BLI inputs.

D16-D23 for AHI,BHI

D24-D31 for ALI,BLI

Note make sure these diodes are installed with the green stripe (cathode) toward the cathode line on the board silk screen

If they are reversed the fets will become very hot and possibly self-destruct due to shoot thru problems.