

Sheet1

Q1	BC639
ZD1, ZD2	BZX85C12
C1, C2, C14	220uF Panasonic FM 50V 20%
C3, C8	PANASONIC TSHA 10,000uf 50V
C4, C5	Wima MKP4 100nF 250V 7.5 mm lead spacing
C6, C11, C16	Elna Silmic II 100uF 35V Perfect fit
C7	Wima MKP2 100nF 63V
C9	220uF Blackgate STD 50V
C10	22pF Kemet Golden Max 200V 5%
C12	220pF Vishay/BC Mono Kap 100V 5%
C15	22uF Panasonic FM 50V 20%
C17, C18, C19, C20 not used	
C21	Wima FKP2 22nF 63V (to be mounted in the bottom side of PCB)
C30	Wima FKP2 1nF 100V
C32	Wima FKP2 150 pF 100V
C34	10pF Kemet MLCC 200V 5%
C13	2.2uf Obbligatto
U1	LM318N
IC1-2	LM3886
Rectifier Diodes x4	MUR820
R1, R4	1K Dale 2W 1%
R2 10K PRP 1/4W 1%	
R3	0.5 ohm Caddock MP2060 60W 1%
R5, R8 22K1 PRP 1/4W 0.1% (match by hand)	
R6, R9 47K5 PRP 1/4W 0.1% (match by hand)	
R7 12K0 PRP 1/4W 1%	
R10 390 PRP 1/2W 1%	
R11 1R KOA Speer 1/4W	1 KOA Speer 1/4W 1%
R12 3K3 PRP 1/2W 1%	
R13 100K PRP 1/4W 1%	
R14 470 PRP 1W 5%	
R15, R16 75K PRP 1/4W 1%	
R19 10K PRP 1/4W 1%	
R20 47K PRP 1/4W 1%	
R21 220K PRP 1/4W 1%	
R22 8K2 PRP 1/4W 1%	
R37 3K3 PRP 1/4W 1%	
R39 470K PRP 1/4W 1%	
R43 22K PRP 1/4W 1%	
R42 47 PRP 1/4W 1%	
R23 6K8 PRP 1/2W 1%	
RELAY1 G5LE-14-DC24	SPDT 24VDC Omron
LED	
Aavid Thermalloy 551002B00000G	
534-1287	