

Qty	Parts	Description	Mfg	Mfg PN	Vendor	Vendor PN	Cost Ea	Cost Ext	Comments
4	C1, C4, C21, C23	Cap, elect, 10uF 63V 6.3mm	Nichicon	UPS2A100MED	Mouser	647-UPS2A100MED	\$ 0.30	\$ 1.20	
2	C10, C15	Cap, film, 1uF 100V 5mm LS	Wima	MKS2D041001K00K100	Mouser	505-MKS2D041001KK100	\$ 0.53	\$ 1.06	
3	C11, C13, C16	Cap, elect, 100uF 250V 16mm	Nichicon	UCY2E101MHD	Mouser	647-UCY2E101MHD	\$ 1.55	\$ 4.65	
2	C17, C18	Cap, elect, 4700uF 10V 16mm	Nichicon	UHW1A472MHD6	Mouser	647-UHW1A472MHD6	\$ 1.82	\$ 3.64	
2	C2, C20	Cap, film, .100pF 63V 5mm LS	Wima	FKP2C001001D00KSSD	Mouser	505-FKP2C001001D00KS	\$ 0.15	\$ 0.30	
4	C3, C5, C22, C24	Cap, film, 0.22uF 63V 5mm LS	Wima	MKS2-.22/63/10	Mouser	505-MKS20.22/63/10	\$ 0.31	\$ 1.24	
7	C6, C7, C8, C9, C12, C14, C19	Cap, elect, 100uF 100V 10.5mm	Nichicon	UVZ2A101MPD	Mouser	647-UVZ2A101MPD	\$ 0.46	\$ 3.22	
4	D1, D3, D5, D6	Diode, fast, 400V 1A	ST	STTH1R04	Mouser	511-STTH1R04QRL	\$ 0.36	\$ 1.44	
2	D2, D7	Diode, zener, 15V	On Semi	1N5245	Mouser	512-1N5245B	\$ 0.14	\$ 0.28	
2	D4, D8	Diode, zener, 36V	Vishay	1N5258	Mouser	78-1N5258B	\$ 0.14	\$ 0.28	
2	D9, D10	Diode, schottky, 20V 1A	On Semi	1N5817RLG	Mouser	863-1N5817RLG	\$ 0.41	\$ 0.82	
5	HS1, HS2, HS3, HS4, HSS	Heatsink	CUI	HSE-B20254035H02	Mouser	490-HSE-B20254035H02	\$ 0.62	\$ 3.10	
2	L1, L2	SS Inductor	Tentlabs	MEC-100	Tentlabs / pmillett	MEC100	\$ 40.00	\$ 80.00	You can wire in a 5H 100mA choke if you prefer
1	Q1	FET, PCH, 200V, TO220	On Semi	FQPF7P20	Mouser	512-FQPF7P20	\$ 1.03	\$ 1.03	
1	Q2	NET, NCH, 200V, TO220	On Semi	FQPF10N20	Mouser	512-FQPF10N20C	\$ 0.96	\$ 0.96	
2	R1, R20	Res, 100 ohm 1/4W 1%	Yageo	MFR-25FBF52-100R	Mouser	603-MFR-25FBF52-100R	\$ 0.12	\$ 0.24	
2	R11, R15	Res, 475k 1/4W 1%	Yageo	MFR-25FBF52-475K	Mouser	603-MFR-25FBF52-475K	\$ 0.12	\$ 0.24	
2	R12, R16	Res, 1k 1/4W 1%	Yageo	MFR-25FBF52-1K	Mouser	603-MFR-25FBF52-1K	\$ 0.12	\$ 0.24	
1	R13	Res, 68k 2W	KOA	SPR2CT521R683J	Mouser	660-SPR2CT521R683J	\$ 0.46	\$ 0.46	
1	R17	Res, 150 ohm 1/4W 1%	Yageo	MFR-25FBF52-150R	Mouser	603-MFR-25FBF52-150R	\$ 0.12	\$ 0.12	
1	R18	Res, 121 ohm 1/4W 1%	Yageo	MFR-25FBF52-121R	Mouser	603-MFR-25FBF52-121R	\$ 0.12	\$ 0.12	
4	R2, R9, R14, R22	Res, 15k 1/4W 1%	Yageo	MFR-25FBF52-15K	Mouser	603-MFR-25FBF52-15K	\$ 0.12	\$ 0.48	
4	R4, R6, R19, R24	Res, 10k 1/4W 1%	Yageo	MFR-25FBF52-10K	Mouser	603-MFR-25FBF52-10K	\$ 0.12	\$ 0.48	
4	R5, R7, R23, R25	Res, 332k 1/4W 1%	Yageo	MFR-25FBF52-332K	Mouser	603-MFR-25FBF52-332K	\$ 0.12	\$ 0.48	
2	R8, R10	Res, 47 ohm 2W	KOA	SPR2CT521R470J	Mouser	660-SPR2CT521R470J	\$ 0.46	\$ 0.92	
2	R3, R21	Trimpot, 10k, 0.25" square	Amphenol Piher	PT10LV10-103A2020-PM-S	Mouser	531-PT10LV113A22PMS	\$ 1.62	\$ 3.24	
2	U1, U3	IC., pwr opamp, OPA452, TO220	TI	OPA452TA-1	Rochester Electronics	OPA452TA-1	\$ 3.30	\$ 6.60	Obsolete but Rochester has 50k in stock, https://www.rocelec.com/part/TISOPA452TA-1
1	U2	IC, volt reg, LT1084, TO220	ST	LD1084V	Mouser	511-LD1084V	\$ 1.30	\$ 1.30	
4	VT1, VT2, VT3, VT4	Tube, 3B7	Sylvania	3B7	RES	3B7	\$ 5.00	\$ 20.00	
4	At VT1, VT2, VT3, VT4	Tube socket, loctal PCB	China		pmillett / eBay	loctal socket	\$ 2.50	\$ 10.00	
1	PCB	PCB	pmillett		pmillett	3B7 PCB	\$ 30.00	\$ 30.00	
1		Power transformer	Hammond	369AX	Mouser	546-369AX	\$ 73.89	\$ 73.89	250VCT @ 115mA, 6.3VCT @ 2A
2		Output Transformer	Lundahl	LL1664/60mA	K&K Audio	LL1664/60mA	\$ 145.00	\$ 290.00	Other OPTs will work, 2.5k - 5k primary @ 50mA DC
							\$ 542.03		