

omponents

Qty	Parts	Value	Description	Mfg	Mfg PN	Vendor	Vendor PN	Cost Ea	Cost Ext	Comments
PCB components										
1	C1	33pF	Mica or film capacitor, 33pF	CDE	CD15ED330JO3F	Mouser	598-CD15ED330JO3F	\$1.82	\$1.82	May need to change with other OPTs
2	C12, C13	1uF 63V	Film capacitor, 1uF 63V, 7.5mm x 7.5mm, 5mm LS	Wima	MKS2-1.0/63/10	Mouser	505-MKS2-1.0/63/10	\$1.05	\$2.10	
1	C16	220uF 100V	Electrolytic capacitor, 220uF 100V, 12.5mm dia, 5mm LS	Nichicon	UVZ2A221MHD	Mouser	647-UVZ2A221MHD	\$0.88	\$0.88	
2	C17, C18	470uF 100V	Electrolytic capacitor, 470uF 100V, 16mm dia, 7.5mm LS	Nichicon	UVZ2A471MHD	Mouser	647-UVZ2A471MHD	\$1.27	\$2.54	
4	C2, C11, C14, C15	10uF 500V	Electrolytic capacitor, 10uF 500V, 13mm dia, 5mm LS	Nichicon	UCY2H100MHD1TO	Mouser	647-UCY2H100MHD1TO	\$1.96	\$7.84	
2	C3, C4	47uF 63V	Electrolytic capacitor, 47uF 63V, 6.3mm dia, 2.5mm LS	Nichicon	UVZ1J470MED	Mouser	647-UVZ1J470MED	\$0.22	\$0.44	
	C5, C6	0.22uF 600V	Film capacitor, 0.22uF, 600V (coupling caps - see comments)	Wima	MKP10-.22/630/5	Mouser	505-M10.22/630/5	\$3.48	\$6.96	You can substitute your favorite coupling cap here. Minimum 0.22uF, minimum 500V. Film, paper-in-oil, others can be used. PCB hole pattern will accept many different sized caps.
2	C7, C10, C19, C20, C21	47uF 500V	Electrolytic capacitor, 47uF 500V, 16mm dia, 7.5mm LS	Nichicon	UCY2H470MHD	Mouser	647-UCY2H470MHD	\$4.13	\$20.65	
2	C8, C9	820pF 1000V	Mica or film capacitor, 820pF 500-1000V	CDE	CD19FD821JO3	Mouser	5982-19-500/820	\$1.38	\$2.76	
4	D1, D2, D3, D4	SF51-B	Rectifier, fast recovery, 5A 50V	Rectron	SF51-B	Mouser	583-SF51-B	\$0.69	\$2.76	
3	D10, D14, D17	MUR1100	Rectifier, fast recovery, 1A 1000V	On Semi	MUR1100EG	Mouser	863-MUR1100ERLG	\$0.30	\$0.90	
2	D5, D9	1N5245	Zener diode, 15V 500mW	Fairchild Semi	1N5242B	Mouser	512-1N5245B	\$0.04	\$0.08	
3	D6, D7, D8	1N5262	Zener diode, 51V 500mW	Fairchild Semi	1N5262B	Mouser	512-1N5262B	\$0.04	\$0.12	
1	F1	4257	Fuse holder, 5mm x 20mm PCB	Keystone	4257	Mouser	534-4527	\$0.56	\$0.56	
1	at F1	500mA	Fuse, 500mA ceramic	Littlefuse	0477.500MXP	Mouser	576-0477.500MXP	\$1.54	\$1.54	Fuse should be rated for DC 400V minimum!
1	HS1	HS_7136DG	Heatsink, PCB, Aavid 7136DG	Aavid	7136DG	Mouser	532-7136DG	\$0.79	\$0.79	
2	Q1, Q2	FQPF8N60CFT	MOSFET, 600V 8A TO-220F	Fairchild Semi	FQPF8N60CFT	Mouser	512-FQPF8N60CFT	\$1.49	\$2.98	
1	R1	3.3k	Resistor, 3.3k ohms 1/2 watt minimum	KOA	SPR2CT521R332J	Mouser	660-SPR2CT521R332J	\$0.46	\$0.46	
2	R15, R16	10k	Resistor, 10k 1/2 watt minimum	KOA	SPR2C103J	Mouser	660-SPR2C103J	\$0.46	\$0.92	
2	R17, R26	1k	Resistor, 1k 1/2 watt minimum	KOA	SPR2CT521R102J	Mouser	660-SPR2CT521R102J	\$0.46	\$0.92	
1	R18	200	Resistor, 200 ohms 1/4 watt minimum	Vishay/Dale	RN60D200FB14	Mouser	71-RN60D-F-200	\$0.09	\$0.09	
3	R2, R13, R14	100k	Resistor, 100k 1/2 watt minimum	KOA	SPR2CT521R104J	Mouser	660-SPR2CT521R104J	\$0.46	\$1.38	
2	R20, R21	30k 2W	Resistor, 30k 2 watt minimum	KOA	SPR2CT521R303J	Mouser	660-SPR2CT521R303J	\$0.46	\$0.92	
2	R24, R25	220k	Resistor, 220k 1/2 watt minimum	KOA	SPR2LTS21R224J	Mouser	660-SPR2LTS21R224J	\$0.46	\$0.92	
3	R27, R28, R37	10	Resistor, 10 ohms 1/2 watt minimum	KOA	SPR2CT521R100J	Mouser	660-SPR2CT521R100J	\$0.46	\$1.38	
	R3, R4, R11, R12, R19, R22, R23, R29, R30, R38, R40	1k CC	Resistor, 1k 1/2W carbon comp only	IRC	RC20GF102J	Mouser	66-RC20GF102J	\$0.32	\$3.52	These are for grid stoppers. Must be carbon comp. Value not critical, can use anything near 1k.
11	R31, R34, R35	330k	Resistor, 330k 2 watt minimum	KOA	SPR2CT521R334J	Mouser	660-SPR2CT521R334J	\$0.46	\$1.38	
1	R33	100	Resistor, 100 ohms 1/2 watt minimum	KOA	SPR2CT521R101J	Mouser	660-SPR2CT521R101J	\$0.46	\$0.46	
1	R36	1M	Resistor, 1Meg 1/2 watt minimum	KOA	CF1/2C105J	Mouser	660-CF1/2C105J	\$0.19	\$0.19	
1	R41	470k	Resistor, 470k 1/2 watt minimum	KOA	SPR2CT521R474J	Mouser	660-SPR2C474J	\$0.46	\$0.46	
1	R42	5k TO-220	Resistor, 5k TO-220 package	Caddock	MP925-5-00K-1%	Mouser	684-MP925-5K	\$4.04	\$4.04	Any TO-220 package 4.7k or 5k resistor is OK
3	R5, R32, R39	47k	Resistor, 47k 1/2 watt minimum	KOA	SPR2CT521R473J	Mouser	660-SPR2CT521R473J	\$0.16	\$0.48	
2	R6, R8	5k	Pot, 1-turn trimmer, 5k	Piher	PT10LV10-502A2020	Mouser	531-PT10V-5K	\$0.46	\$0.92	
1	R7	100	Pot, 1-turn trimmer, 100 ohms	Piher	PT10LV10-101A2020	Mouser	531-PT10V-100	\$0.46	\$0.46	
2	R9, R10	3.9k	Resistor, 3.9k 1/2 watt minimum	KOA	SPR2CT521R392J	Mouser	660-SPR2CT521R392J	\$0.46	\$0.92	
1	RT1	CL140	Thermistor, inrush limiter, CL-140	Thermometrics	RL3504-31-2-73-S13	Mouser	527-CL140	\$1.10	\$1.10	
6	TP1, TP2, TP3, TP4, TP5, TP6		Test point	Kobicon	151-103-RC	Mouser	151-103-RC	\$0.30	\$1.80	
1	U1	IXCP10M45	IC, current regulator, Ixys 10M45S, TO-220 package	Ixys	IXCP10M45S	Mouser	747-IXCP10M45S	\$2.52	\$2.52	
2	VT1, VT2	6CB6	Tube socket, 7-pin miniature, PCB mount	NA	NA	eBay		\$1.50	\$3.00	Can use others, 0.75" pin circle
2	VT3, VT4	6HU5	Tube socket, 12-pin compactron, PCB mount	NA	NA	eBay		\$4.00	\$8.00	Can use others, 1" - 1.1" pin circle
1			PC Board	Pete Millett	DCPP_MB	www.pmillett.com		\$40.00	\$40.00	

Chassis mounted components

Qty	Parts	Description	Mfg	Mfg PN	Vendor	Vendor PN	Cost Ea	Cost Ext	Comments	
1	Chassis	Chassis	Landfall Systems	DCPP_MB	www.landfallsystems.com		\$	100.00	\$100.00	
1	T1	Power transformer	Hammond	290FX	Mouser	546-290FX	\$85.63	\$85.63	This is a Hammond Twin Reverb power xfmr, available from other sources as well	
1	T2	Output transformer, 4.3k : 4/8 50W push-pull	Hammond	1650N	Mouser	546-1650N	\$123.52	\$123.52	Other output transformers can work. 4.3k P-P to 8 ohms. 50W minimum..	
1	J2	RCA jack	Rean	NYS367-9	Mouser	568-NYS367-9	\$2.01	\$2.01	Or use your favorite one.	
1	J3	Speaker terminals, dual binding post	Kobiconn	164-19B2-EX	Mouser	164-19B2-EX	\$4.55	\$4.55	Or use your favorite one.	
1	J4	Power inlet / switch / fuseholder	Schurter	4304.6058	Mouser	693-4304.6058	\$10.55	\$10.55		
2	F2	Fuse, 2A slow blow	Schurter	0001.2507	Mouser	693-0001.2507	\$0.47	\$0.94		

Tubes

1	VT3, VT4	Sweep tube, 6HU5	any	6HU5	RES	6HU5	\$4.00	\$4.00	
1	VT1, VT2	Pentode, 6GU5	any	6GU5	RES	6GU5	\$3.00	\$3.00	

Total \$464.34