

Item	Description	Digikey #	QTY	Price	Total
AC Input Terminal Block (optional)	TERMINAL BLOCK 5MM VERT 2POS PCB	ED2600-ND	2	\$ 0.46	\$ 0.92
Line Input Terminal Block (optional)	TERMINAL BLOCK 5MM VERT 3POS PCB	ED2601-ND	1	\$ 0.61	\$ 0.61
Input Resistors	RES 10.0K OHM 1/8W .1% 0805 SMD	RG20P10.0KBCT-ND	2	\$ 0.46	\$ 0.91
Feedback Resistors	RES 1.0K OHM 1/8W .1% 0805 SMD	RG20P1.0KBCT-ND	6	\$ 0.46	\$ 2.73
Gain Set Resistor (for 15dB)	RES 430 OHM 1/8W .1% 0805 SMD	P430DACT-ND	1	\$ 0.76	\$ 0.76
LME49990	IC OPAMP AUDIO 110MHZ 8SOIC	LME49990MA-5/NOPB-ND	3	\$ 2.91	\$ 8.73
LME49610	IC AUDIO BUFFER 250MA TO263-5	LME49610TS/NOPB-ND	8	\$ 5.83	\$ 46.67
Regulator Bypass Caps	CAP CER 0.047UF 25V 5% NP0 0805	399-8092-1-ND	2	\$ 0.87	\$ 1.74
Regulator Current Limit Set Resistor	RES 4.3K OHM 1/8W 1% 0805 SMD	P4.30KCCT-ND	2	\$ 0.12	\$ 0.24
Regulator Voltage Set Resistor	RES 2.37K OHM 1/8W .1% 0805 SMD	P2.37KDACT-ND	2	\$ 0.76	\$ 1.52
Regulator Voltage Set Resistor	RES 17.8K OHM 1/8W .1% 0805 SMD	RG2012P-1782-B-T5	2	\$ 0.46	\$ 0.91
Bypass Caps	CAP CER 1UF 50V 10% X7R 0805	1276-1029-1-ND	10	\$ 0.08	\$ 0.80
Bypass Caps for Buffers	CAP CER 10UF 25V 10% X7R 1206	1276-1804-1-ND	16	\$ 0.16	\$ 2.60
Rectifier Diodes	DIODE SCHOTTKY 40V 3A SMC	497-4673-1-ND	8	\$ 0.77	\$ 6.12
Bulk Filter Caps	CAP ALUM 5600UF 25V 20% RADIAL	493-6934-ND	4	\$ 2.57	\$ 10.27
Regulator Heatsinks	HEATSINK TO-220 W/PINS 1.5" TALL	HS346-ND	2	\$ 1.22	\$ 2.44
Output Stage Heatsink	HEATSINK HALF BRICK ALUM BLACK	102-1489-ND	2	\$ 4.11	\$ 8.22
LT1185 Regulators	IC REG LDO NEG ADJ 3A TO220-5	LT1185CT#PBF-ND	2	\$ 7.64	\$ 15.28
TIM for Regulators	THERMAL PAD .007" W/ADH TO-220	345-1079-ND	2	\$ 0.80	\$ 1.60
TIM for Output Stage Heatsink	H48-2 SHEET 150X150X0.5MM	1168-1170-ND	1	\$ 7.23	\$ 7.23
Insulating Washer for TO-220 Regs	INSULATING SHOULDER WASHER	HS418-ND	2	\$ 0.20	\$ 0.39
Screws for Regs and Standoffs	MACHINE SCREW PAN PHILLIPS 4-40	H703-ND	10	\$ 0.07	\$ 0.68
Nuts for Regs	HEX NUT 1/4" STN STEEL	H724-ND	2	\$ 0.06	\$ 0.12
Standoffs	HEX STANDOFF 4-40 ALUMINUM 1/2"	2203K-ND	8	\$ 0.54	\$ 4.32
					\$ 125.81

NOTES: There is enough heatsink TIM for 4 amplifier output stages
 This BOM is for a balanced input version with 15dB gain
 A heatsink is not strictly required for the output stage
 The heatsink in the pictures is from Newark, and is not the one listed
 The parts above are for ONE (1) amplifier
 Standoffs and 4-40 screws are used to mount the heatsink