

PassDIY Headphone Amp Parts List

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Rev. 1.0

Ref	Value	PCB	Mouser Part No.	Manufacturer	Distrib.	QTY	Price	Total
Semi-Conductors								
U1	IC, OPA2604, Op-Amp (up to 24V supply)	DIP-8	595-OPA2604AP	Texas	Mouser	1	\$8.00	\$8.00
Other choice	IC, AD823ANZ, Op-Amp (15-18V supply only)	DIP-8	AD823ANZ-ND	Texas	Digikey	0	\$9.65	\$0.00
U2	IC, LM7915CT, LDO Volt Reg. Fixed	TO-220	LM7915CTFS-ND	Fairchild	Digikey	1	\$0.86	\$0.86
U3	IC, LM7815CT, LDO Volt Reg. Fixed	TO-220	LM7815CTFS-ND	Fairchild	Digikey	1	\$1.01	\$1.01
U4,5	IC, 4N35, Opto-Coupler	DIP-6	160-1304-5-ND	Lite-On	Digikey	2	\$0.69	\$1.38
D1-D4	1N4004, Diode Rectifier	DO-41			Digikey	4	\$0.10	\$0.40
Other choice	1N5819, Diode SCHOTTKY 40V 1A	DO-41	1N5819FSCT-ND		Digikey	0	\$0.72	\$0.00
D5,6	Led, Red, 3mm	3mm		Lite-On	Mouser	2	\$0.15	\$0.29
D7,8	1N4004, Diode Rectifier	DO-41			Digikey	2	\$0.10	\$0.20
Q1,Q3	2SK2013-Y, MOSFET N-CH	TO-220	Toshiba		Ebay	2	\$4.35	\$8.69
Q2,Q4	2SJ313-Y, MOSFET P-CH	TO-220	Toshiba		Ebay	2	\$4.35	\$8.69
Resistors								
P1	Pot. ALPS 50K, 2 GANG Audio		ALPS-72497	ALPS	PartsX	1	\$17.95	\$17.95
R1,2,7,10,12,14	Res. 1K, 1/4W. 1%, MF, MFR25 Series		1.0KXBK-ND	Yageo	Digikey	6	\$0.10	\$0.60
R6,15,23-25,28,33,34	Res. 10K, 1/4W. 1%, MF, MFR25 Series		10.0KXBK-ND	Yageo	Digikey	8	\$0.10	\$0.80
R3,5	Res. 100K, 1/4W. 1%, MF, MFR25 Series		100KXBK-ND	Yageo	Digikey	2	\$0.10	\$0.20
R4,8	Res. 4k75, 1/4W. 1%, MF, MFR25 Series		4.75KXBK-ND	Yageo	Digikey	2	\$0.10	\$0.20
R9,13 (note)	Res. 332R, 1/4W. 1%, MF, MFR25 Series		332XBK-ND	Yageo	Digikey	2	\$0.10	\$0.20
R11,19,26,31	Res. 499R, 1/4W. 1%, MF, MFR25 Series		499XBK-ND	Yageo	Digikey	4	\$0.10	\$0.40
R16,22,29,32 (note)	Res. 10,15 or 22R, 1/4W. 1%, MF, MFR25 Series		10.0XBK-ND	Yageo	Digikey	4	\$0.10	\$0.40
R20,21,37,38	Res. 5R1, 3W, MOX, 5%, ERX Series		P5.1W-3BK-ND	Panasonic	Digikey	4	\$0.88	\$3.52
R35,36	Res. 47R5, 1/4W. 1%, MF, MFR25 Series		47.5XBK-ND	Yageo	Digikey	2	\$0.10	\$0.20
Capacitors								
C1,5	Cap. 1uF,250V Film, MKP-FC Series	D12L20mm		Solen	PartsX	2	\$4.10	\$8.20
Other choice	Cap. 1uF, 63V Film, MKP	P15mm	BFC241671005	Vishay	Digikey	0	\$4.10	\$0.00
Other choice	Cap. 1uF, 63V Film, MKP	P15mm	PHE840MB6220MB12R17	Kemet	Mouser	0	\$4.10	\$0.00
C2,7	Cap.100pF, 100V, FKP2 Series (optional, see no	P5mm	505-FKP2100/100/5	Wima	Mouser	2	\$0.46	\$0.93
C3,4,9,8,10,28	Cap. 220uF, 50V, FC Series	D10P5	647-UPW1V221MPD	Nichicon	Digikey	6	\$1.02	\$6.12
C6,11,14,15,18,19	Cap. 3300uF, 35V, FC Series	D18P7.5	EEU-FC1V332	Panasonic	Mouser	6	\$2.48	\$14.88
Other choice	Cap. 3300uF, 35V, Muse KW Series	D16P7.5	UKW1V332MHD	Nichicon	Mouser	6	\$3.03	\$18.18
C12,17,22,25,26,27	Cap. 22uF, 25V,FC Series (C26,C27 see note)	D5P2	EEA-FC1E220	Nichicon	Digikey	6	\$0.48	\$2.88
C13,23	Cap. 0.1F, 250V, 5%, Film		75-MKT1813410254	Vishay	Mouser	2	\$0.80	\$1.60
Hardware								
	PCB				Diyaudio	1	\$18.00	\$18.00
TR1	Transformer, 15V@0.5A (Serie), 15VA TOROIDAL		70053K	Talema	Digikey	1	\$35.78	\$35.78
F1	0.5A, 250V IEC SLO 5X20MM (GDC 500ma)		F2416-ND		Digikey	1	\$0.82	\$0.82
Fuse Socket	Fuseholder, panel mount				Local	1	\$0.00	\$0.00
HS1-HS6	HEATSINK TO-220 W/PINS 1.5" TALL		HS351-ND	Wakefield	Mouser	6	\$2.13	\$12.78
Case	Enclosure 8.7x4.1x2.1"Extruded w/MetalEnds Clear		546-1455N2201	Hammond	Mouser	0	\$36.25	\$0.00
Op-Amp	Socket 8DIP		575-193308	Mill-Max	Mouser	1	\$0.90	\$0.90
AC Socket	AC Socket with fuse holder		Q203-ND		Digikey	1	\$1.31	\$1.31
IN_L	RCA Neutrik, White		568-NF2D-WT	Neutrik	Mouser	1	\$5.18	\$5.18
IN_R	RCA Neutrik, Red		568-NF2D-R	Neutrik	Mouser	1	\$5.18	\$5.18