

PhonoClone ver 1.7 Parts List
Dec 2005

Power Supply (Low Voltage Version)

Name	QTY	Description	Digikey	Distrib	Price U\$	Total	
T1,2	0	Transformer 12V-0-12V, 160VA	57012201	Plitron	\$55.72	\$0.00	
	2	Transformer 8V-0-8V, 48VA, Shielded wt copper tape	229D16	e-sonic	\$23.39	\$46.78	<--My choice, Low Voltage Version (16Vac, 3A) Vdc +/-13.1V at 470R load (+/-28ma)
BRG1,2	2	Rectifier Bridge 440V, 25A, Part BP25-04	050-060	Parts Express	\$2.25	\$4.50	
Led 1	1	LED - Blue T1(3MM) POWER Indicator	67-1748-ND	Digikey	\$2.23	\$2.23	
F1	1	Fuse, 0.5A, SB, 3AG		Local	\$0.00	\$0.00	
CN1,2	2	Conn. AMP, 4 pins, Fem, Panel mount, Serie 2	A1675-ND	Digikey	\$2.97	\$5.94	
CN3	1	AC Input Conn. with integrated Fuse		Local	\$0.34	\$0.34	
	1	Terminal Block for cable interconnect		Local	\$0.00	\$0.00	
FLT1	1	EMI Filter		Local	\$0.00	\$0.00	

Phono Preamp (QTY for 2 channels)

Name	QTY	Description	Digikey	Distrib	Price U\$	Total	
U1,2	4	OPA27GP, IC LN low Noise OPAMP 8 DIP	OPA27GP-ND	Digikey	\$2.45	\$9.80	
U3,4	4	L7809CV, IC POSITIVE REGULATOR 9V, 1.5A, TO-220	497-1448-5-ND	Digikey	\$0.65	\$2.60	
U5,6	4	MC7909CT-BP, VOLTAGE REG NEG 9V,1.5A, TO-220	MC7909CT-BPMS-ND	Digikey	\$0.40	\$1.60	
C1	2	Cap. 1nF, Mica	SMICA- 68093	PartsCon	\$1.50	\$3.00	
C2	6	Cap. 3 X 10nF, Total=2.9nF, Mica	SMICA- 68093	PartsCon	\$1.50	\$9.00	
C3	2	Cap. 4.7uF, 50V, Black Gate N, Non-Polar	BLKGATE- 60098	PartsCon	\$3.25	\$6.50	Cartridge ACE-L R1 R2 DL-110 12R 2.2K DL-103 160R 20K 47R 6.8K
C4-C7	8	Cap. 100uF, 25V, Panasonic FC	P10269-ND	Digikey	\$0.23	\$1.84	
C8-C11	8	Cap. 330uF, 35V, Panasonic FC	P10299-ND	Digikey	\$0.23	\$1.84	
R1	2	Res. Riken 1/2W, Match Cartridge Int. Res, see table		PartsCon	\$2.70	\$5.40	
R2	2	Res. Riken 1/2W, Gain Adjust, see table		PartsCon	\$2.70	\$5.40	
R3	2	Res. 2.2K, MF, 1/4W, 1%, Panasonic	P2.20KCACT-ND	Digikey	\$0.17	\$0.34	Total Gain= 30 + 20log(R2/Zcart) in dB
R4	2	Res. 2.2K, MF, 1/4W, 1%, Panasonic	P2.20KCACT-ND	Digikey	\$0.17	\$0.34	
R5	2	Res. 110K, Carbon Resistor		Local	\$0.11	\$0.22	
R6	2	Res. 750K, Carbon Resistor		Local	\$0.11	\$0.22	
R7	2	Res. 33K, MF, 1/4W, 1%, Panasonic	P33.0KCACT-ND	Local	\$0.17	\$0.34	
R8	2	Res. 47R , Carbon Resistor		Local	\$0.11	\$0.22	
J1,2	4	CONN Header 3POS		Local	\$0.00	\$0.00	
JMP1,2	4	Jumper, 2 pos.		Local	\$0.00	\$0.00	
CN1,2	2	Conn. AMP, 4 pins, Male, Cable Mount	A1367-ND	Digikey	\$2.23	\$4.46	
CN3-4	2	RCA Female Jack, "WBT Style", Teflon dielectric, Gold Plated	CONNEX- 68140	PartsCon	\$7.95	\$15.90	Pair

Hardware

Case	2	Hammond Al extrusion case 160 x 103 x 53 mm.	1455N1602	e-sonic	\$19.06	\$38.12	
	8	Crimp-On Connectors		Local	\$0.00	\$0.00	
	4	8 PIN Dip - Gold contact Machined	ED58083-ND	Digikey	\$0.62	\$2.48	
	1	Kimber Hook-Up Wire, 19AWG		PartsCon	\$0.86	\$0.86	
GND Lug	1	Uninsulated Binding Post Vampire	VAMPIRE- 55449	PartsCon	6.75	\$6.75	
					Total	\$177.02	