

PassLabs XONO - Phono Preamp

Parts List

Sep-06

Power Supply Case

Ident	part no.	Source	CMD Price EA	Cost	QTY Description
	06AK2D	e-sonic	OK \$26.70	\$26.70	1 Line Filter Assy with Switch & Fuse, 115V/6A, DELTA
	1891K-ND	Digikey	OK \$0.30	\$6.60	22 STANDOFF HEX 4-40THR .250"L ALUM
	Screw 4-40 SS, 1/4"	local	OK \$0.05	\$2.20	44
	Rubber feet	local	OK \$0.25	\$1.00	4
		DIY	OK \$20.00	\$20.00	1 DIY Custom Casing

Unreg PCB

Ident	part no.	Source	CMD Price EA	Cost (2 PCB	QTY Description
C6-9	19C5953	Digikey	OK \$0.09	\$0.72	4 Cap. '100nF Wima MKS-2 63V (AVX BF014D0104.
R3-6	392XBK-ND	Digikey	OK \$0.05	\$0.40	4 Res..392R, 1%, MF 1/4W
R1,2	P4.7W-3BK-ND	Digikey	OK \$0.52	\$2.08	2 4.7 ohm, 3W, metal ox film,5%(.52ea 5/2.44
C1	P4603-ND	Digikey	OK \$1.44	\$2.88	1 0.1 uF, line voltage/250V ERO MKT
C2,3	P6427-ND	Digikey	OK \$8.00	\$32.00	2 Cap. 10K uF, 50V, Panasonic TSU
C4,5		Local	OK \$0.50	\$2.00	2 Cap. 1.2uF, 250V, MKP Film
TH2	527-CL60	Mouser	OK \$2.17	\$2.17	1 Thermistor, NTC,10ohm,5A,Thermometrics CL60
D1-4	MUR860-ND	Digikey	OK \$0.76	\$6.08	4 or MUR860
		DIY	OK \$4.00	\$8.00	1 PCB

Transfo PCB

Ident	part no.	Source	CMD Price EA	Cost	QTY Description
T1,2	229D56	esonic	OK \$28.00	\$56.00	2 Transformer, Hammond,28+28V, 0.850A sec, shielded
	Y236107 (repl. D4007)	Avel Lindberg	N/A \$22.47	\$0.00	0 Transformer, Avel Lindberg 30VA, 30+30V sec
	17017201	Plitron	N/A \$45.76	\$0.00	0 Transformer, Plitron,30VA, 30+30V secondaries
CON1			OK \$0.00	\$0.00	1 Conn. 3 pins, Screws Terminal
CON2	277-1244-ND	Digikey	OK \$4.26	\$4.26	1 CONN TERM BLOCK 10POS 5MM PCB, Phoenix Cor
TH1	527-CL60	Mouser	OK \$2.17	\$2.17	1 Thermistor, NTC,10ohm,5A,Thermometrics CL60
		DIY	OK \$5.00	\$5.00	1 PCB

Connectors PCB

Ident	part no.	Source	CMD Price EA	Cost	QTY Description
LED1	P466-ND	Digikey	OK \$3.91	\$3.91	1 Led Blue, Power ON
T1	237-1003-ND	Digikey	OK \$14.00	\$14.00	1 Transfo, 10+10V, 0.6A (serie), Split Bobins, FP20-600
R1,2	P1.0KW-3BK-ND	Digikey	OK \$0.51	\$1.02	2 Res. 1K, 3W, 5% METAL OXIDE
R3	P6.8KW-3BK-ND	Digikey	OK \$0.51	\$0.51	1 Res. 6.8K, 3W, 5% METAL OXIDE
R4-7	83F1766	Newark	OK \$0.39	\$1.56	4 Res. 10K, 1/2W, MF, RN65D, Vishay
C1-4	505-MKS2.1/63/10	Mouser	OK \$0.23	\$0.92	4 Cap. 0.1uF, 63V, 10%, MKS-2, WIMA
C5,6	P6482-ND	Digikey	OK \$3.26	\$6.52	2 Cap. 3300uF, 35V, Panasonic TSU
BRG1	GBU804DI-ND	Digikey	OK \$1.46	\$1.46	1 Bridge Rectifier, 8A, 400V, Glass Passivated Diode
CON1,2	177-825F-ND	Digikey	OK \$7.95	\$15.90	2 Conn. DB25-F, PCB Mount, Right Angle
CON3		Local	OK \$0.00	\$0.00	1 Conn. 2 pins, Screw Terminal, 2 parts, right angle
CON4	ED1609-ND	Digikey	OK \$0.42	\$0.42	1 TERMINAL BLOCK 5.08MM VERT 2POS
		DIY	OK \$5.00	\$5.00	1 PCB

Preamp Case

Ident	part no.	Source	CMD Price EA	Cost	QTY Description
			OK \$250.00	\$250.00	1 Professionnal Custom Casing
CON1	A31896-ND	Digikey	OK \$3.42	\$3.42	1 Conn. DB25-M, Panel Mount
GND Lug	35F628	Newark	OK \$27.54	\$27.54	1 Uninsulated Binding Post HHSmith
	568-NC3MP-B	Mouser	OK \$4.51	\$9.02	2 Neutrik XLR 3pin male,panel,gold
CN1,2,3	CARDAS-53446	PartsX	OK \$13.50	\$40.50	3 RCA Female Jack, Cardas GRFA
	1891K-ND	Digikey	OK \$0.30	\$6.00	20 STANDOFF HEX 4-40THR .250"L ALUM
	Screw 4-40 SS, 1/4"	local	OK \$0.05	\$2.00	40 Screw 4-40 SS, 1/4"
	Power Cable	local	OK \$10.00	\$10.00	1 Computer DB25 Cable, DB25F-DB25M, Shielded

Mute PCB

Ident	part no.	Source	CMD Price EA	Cost	QTY Description
D2	P466-ND	Digikey	OK \$3.91	\$3.91	1 Led Blue, Power ON
Q25	IRF9610PBF-ND	Digikey	OK \$1.89	\$1.89	1 MOSFET P-CH 200V 1.8A TO-220AB
Q26	IRF610PBF-ND	Digikey	OK \$1.08	\$1.08	1 MOSFET N-CH 200V 3.3A TO-220AB
D10,11	1N4004MSCT-ND	Digikey	OK \$0.04	\$0.09	2 diodes 1n4004, 10 minimum (10/\$.43)
R74	3.32KXBK-ND	Digikey	OK \$0.01	\$0.01	1 Res. 3.32K, 1/4W, MF 1%
R77	1.50KXBK-ND	Digikey	OK \$0.01	\$0.01	1 Res. 1.5K, 1/4W, MF 1%
R78	750KXBK-ND	Digikey	OK \$0.01	\$0.01	1 Res. 750K, 1/4W, MF 1%

C40	Local	OK	\$0.00	\$0.00	1 Cap. 330uF, 63V, electrolytic
	DIY	OK	\$0.50	\$0.50	1 PCB

Reg PCB

Ident	part no.	Source	CMD	Price	EA Cost (2 PCB QTY	Description
Q1	IRF9610PBF-ND	Digikey	OK	\$1.89	\$3.78	1 MOSFET P-CH 200V 1.8A TO-220AB
Q2	IRF610PBF-ND	Digikey	OK	\$1.08	\$2.16	1 MOSFET N-CH 200V 3.3A TO-220AB
D1-D8	1N4739ADICT-ND	Digikey	OK	\$0.36	\$6.48	9 Zener, 9.1V/1W
C10,12	PF2335-ND	Digikey	OK	\$2.79	\$11.16	2 Cap,3.3uf, 250V, PolyPropylene
C7,8	P3154-ND	Digikey	OK	\$1.06	\$4.24	2 Cap 0.15 uF/50V, Pana. P series PP film
R1-4	P4.7W-2BK-ND	Digikey	OK	\$0.24	\$1.95	4 Resistor, 4.7ohm, 2W (ono 5.1 ohm) Metal Ox Film
C1-6,13,14	P6939-ND	Digikey	OK	\$5.01	\$80.16	8 Cap. 10K uF, 50V, electrolytic, Pana TSUP
R7,8	220W-1-ND	Digikey	OK	\$0.15	\$0.60	2 Resistor, 1W 220 ohm, 5% MF
R5,6	2.2KW-1-ND	Mouser	OK	\$0.15	\$0.60	2 Resistor, 1W 2.2 K, 5% MF
Heatsink	345-1029-ND	Digikey	OK	\$2.14	\$8.56	2 HEATSINK TO-220 W/PINS 1.5" TALL
		DIY	OK	\$5.00	\$10.00	1 PCB

Phono Preamp PCB

Ident	part no.	Source	CMD	Price	EA Cost (2 PCB QTY	Description
K1	255-1039-ND	Digikey	OK	\$4.85	\$9.70	1 Relay DPDT 1A/24VDC
DZ1	1N4739ADICT-ND	Digikey	OK	\$0.36	\$0.72	1 Zener, 9.1V/1W
Q1,2,14,16,17	2SC1844	bdent.com	OK	\$0.25	\$2.50	5 Transistor 2SC1844, Matched Pair Q1-2
Q3,18	IRF9610PBF-ND	Digikey	OK	\$1.89	\$7.56	2 MOSFET P-CH 200V 1.8A TO-220AB
Q4,24	ZTX450-ND	Digikey	OK	\$0.48	\$1.92	2 Transistor, ZTX450, NPN 45V 1A, TO-92
Q5	2SK389	electronicsic.com	OK	\$2.98	\$5.96	1 Transistor 2SK389, dual monolithic JFET
Q6	2SA991/2SA953 equiv	MCM	OK	\$0.49	\$0.98	1 Transistor 2SA991
Q7,8,19	IRF610PBF-ND	Digikey	OK	\$1.08	\$6.48	3 MOSFET N-CH 200V 3.3A TO-220AB
Q10-13,15	2SK170GR	pacificsemi.com	OK	\$0.53	\$5.30	5 JFET 2SK170GR, Matched Quad + 1
Q21,20,22	IRFD9110-ND	Digikey	OK	\$1.16	\$6.96	3 Transistor, MOSFET, 4 pin DIP-pack, 9110
C1,7,10,19,27,37,41	P10297-ND	Digikey	OK	\$0.44	\$6.16	7 Cap, 220 uF/35V,electro. Pana FC series
CB1-4,C2,7B,10B	P3473-ND	Digikey	OK	\$0.64	\$8.96	7 Cap, 0.047 uF, Pana P-Series PP, 2%
C3,13,25	23PS110	Mouser	OK	\$0.24	\$1.44	3 Cap, Psty 100pF axial, Xicon 50V, 23PS Serie
C4	RELCAP-51635	PartsX	CMD	\$4.85	\$9.70	1 0.01uF, 600V, polycarbonate, RTE
Other Choice	P3103-ND	Digikey	OK	\$0.53	\$0.00	0 Cap, poly. .01 (10nF), Pana P-Series PP, 2%
C5	RELCAP-51621	PartsX	CMD	\$4.85	\$9.70	1 2700pf, 600V, polycarbonate, RTE
Other Choice	P3272-ND	Digikey	OK	\$0.46	\$0.00	0 Cap, .0027 (2.7nF), PP
C6	P3333-ND	Digikey	OK	\$0.53	\$1.06	1 Cap, .033uF (33nF), Pana P-Series PP, 2%
C7,9	30K6591	Newark	CMD	\$6.40	\$25.60	2 Cap, 10 uF/250V, MKP, 24X34mm, ILLINOIS CAP
Other Choice		zalytron.com		\$3.23	\$0.00	0 Cap, 10 uF/250V, MKP, 24X34mm, AXON
C7,10,19,37,Other Ch	BLKGATE-60186	PartsX		\$2.50	\$20.00	4 BG C Series coupling,polar., 47uF/50V-test
C9B,C38B	P3473-ND	Digikey	OK	\$0.64	\$0.00	0 Cap, PP .047 uF
C11	338-1061-ND	Digikey	OK	\$1.14	\$2.28	1 cap, 10 pF, silver mica,radial
C12,12B,20,20B,34,35	P5557-ND	Digikey	OK	\$2.15	\$25.80	6 Cap, 3300 uF/35V, electro. Pana NHG series
C14	23PS122	Mouser	OK	\$0.24	\$0.48	1 Cap, Psty 220pF axial, Xicon 50V, 23PS Serie
C15	23PS133	Mouser	OK	\$0.22	\$0.44	1 Cap, Psty 330pF axial, Xicon 50V, 23PS Serie
C16	P3331-ND	Digikey	OK	\$0.28	\$0.56	1 Cap, 330pF (.33nF,.00033uF), Pana P-Series PP, 5%
C28	P5566-ND	Digikey	OK	\$0.24	\$0.48	1 Cap, 4.7 uF/50V, electro. Pana NHG series (10/\$1.52)
C38		Local	OK	\$0.00	\$0.00	1 Cap. 10uF, 250V, MetaPolyPropylene
C39	Not Used	Local	OK	\$0.00	\$0.00	1 Cap. 0.001uF, Psty, Radial
C49	P3681-ND	Digikey	OK	\$0.28	\$0.56	1 Cap PP .00068uF (680 pF
R1,22,24,26,52,54,55,57,60,61,69	71-RN60D-F-221	Mouser	OK	\$0.21	\$5.04	12 Res, MF, 1/4W,RN60D, 221R
R2,70	BC5.1W-1CT-ND	Digikey	OK	\$0.16	\$0.64	2 Resistor, 1W MF 5.1 ohm, BC, 5%
R3	71-RN60D-F-8.2K	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 8.2K
R4	7.50KXBK-ND	Digikey	OK	\$0.21	\$0.42	1 Resistor, 1/4W MF, Yageo, 7.5K
R4B	CT9W103-ND	Digikey	OK	\$1.65	\$3.30	1 Pot 10K, 9mm sq.MT, TOP,BC Cermet CT9P
R5	71-RN60D-F-6.81K	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 6.81 K
R6,16-18,76	71-RN60D-F-10K	Mouser	OK	\$0.21	\$2.10	5 Res, MF, 1/4W,RN60D, 10K
R7,21,36	71-RN60D-F-100	Mouser	OK	\$0.21	\$1.26	3 Res, MF, 1/4W,RN60D, 100R
R8	279-7.32K	PartsX	OK	\$0.60	\$1.20	1 Holco H8, 1/4W MF 7.32 K 0.1%
R9	279-88.7K	PartsX	OK	\$0.60	\$1.20	1 Holco H8, 1/4W MF 88.7K 0.1%
R10,53,82	71-RN60D-F-150	Mouser	OK	\$0.21	\$1.26	3 Res, MF, 1/4W,RN60D, 150R
R11,51,68	71-RN60D-F-4.75K	Mouser	OK	\$0.21	\$1.26	3 Res, MF, 1/4W,RN60D, 4.75K
R13	71-RN60D-F-332	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 332R
R14,15,49	71-RN60D-F-100K	Mouser	OK	\$0.21	\$1.26	3 Res, MF, 1/4W,RN60D, 100K
R20,31	71-RN60D-F-47.5K	Mouser	OK	\$0.21	\$0.84	2 Res, MF, 1/4W,RN60D, 47.5K
R23	71-RN60D-F-22K	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 22K
R25	CT9W502-ND	Digikey	OK	\$1.65	\$3.30	1 Pot 5K, 9mm sq.MT, TOP,BC Cermet CT9P
R25P	71-RN60D-F-2.21K	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 2.21K
R27,28	71-RN60D-F-33.2	Mouser	OK	0.21	\$0.84	2 Res, MF, 1/4W,RN60D, 33R
R32,59,79,80,81	71-RN60D-F-1.0K	Mouser	OK	\$0.21	\$2.10	5 Res, MF, 1/4W,RN60D, 1K

R33	71-RN60D-F-825	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 825R
R34,67	71-RN60D-F-475	Mouser	OK	\$0.21	\$0.84	2 Res, MF, 1/4W,RN60D, 475R
R35	71-RN60D-F-249	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 249R
R37	71-RN60D-F-47.5	Mouser	OK	0.21	\$0.42	1 Resistor,MF, 1/4W, RN60, 47
R39	71-RN60D-F-10	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 10R
R38	24.9XBK-ND	Digikey	OK	0.18	\$0.36	1 Res, MF, 1/4W, Yageo, 24.9R
R40,66	71-RN60D-F-499	Mouser	OK	\$0.21	\$0.84	2 Res, MF, 1/4W,RN60D, 499R
R41	4.02KXBK-ND	Digikey	OK	\$0.21	\$0.84	2 Resistor, 1/4W MF, Yageo, 4.02K
R42	71-RN60D-F-3.32K	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 3.32 K
R45-48	71-RN60D-F-22.1	Mouser	OK	\$0.21	\$1.68	4 Res, MF, 1/4W,RN60D, 22.1R
R50	71-RN60D-F-56.2	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 56.2R
R59B	CT9W102-ND	Digikey	OK	\$1.65	\$6.60	2 Pot 1K, 9mm sq,MT, TOP,BC Cermet CT9P
R62,63	71-RN60D-F-22K	Mouser	OK	\$0.21	\$0.84	2 Res, MF, 1/4W,RN60D, 22K ohm
R64,65	71-RN60D-F-47.5	Mouser	OK	\$0.21	\$0.84	2 Res, MF, 1/4W,RN60D, 47R
R75	71-RN60D-F-1.5K	Mouser	OK	\$0.21	\$0.42	1 Res, MF, 1/4W,RN60D, 1.5K
R77	71-RN60D-F-750K	Mouser	OK	0.21	\$0.42	1 Resistor,MF, 1/4W, RN60, 750K
SW1,2	CT2068-ND	Digikey	OK	\$0.65	\$2.60	2 8-Pin DIP sw.,CTS 206 series,top slide,
J1,2	WM4000-ND	Digikey	OK	\$0.24	\$0.96	2 Headers, .1 in, through pin,GC Waldom,2 circuit
Short Link	0.0QBK-ND	Digikey	OK	\$0.06	\$0.72	6 JUMPER ZERO OHM 1/4W
Heatsink	294-1108-ND	Digikey	OK	\$0.66	\$2.64	2 TO-220 heat sinks,horiz/vert, PC w/tabs,2W,
	151-8033	Mouser	OK	\$0.24	\$0.48	1 Thumb-Pull Shorting Jumper, .1 in. pins, red
	151-8031	Mouser	OK	\$0.24	\$0.48	1 Thumb-Pull Shorting Jumper, .1 in. pins, blue
	Cardas coax	PartsX		\$3.00	\$24.00	4 1x21.5 AWG shield. coax, cardas, shipped 2x 21.5 AW
	PC42-ND	Digikey		\$14.31	\$14.31	1 PCB, dbl sided,need 6x9 , 1/16in, 1 oz, 1 spare
				Total	\$968.96	
TOOL	Mouser	5876-409-75	1.55	\$15.50		10 drill bit, #75
TOOL	Mouser	5876-409-66	1.16	\$11.60		10 drill bit, #66
TOOL	Mouser	5876-409-55	0.88	\$8.80		10 drill bit, #55
TOOL	Mouser	5876-409-69	1.16	\$11.60		10 drill bit, #69