

Ref	PART NO.	DESCRIPTION	Package	Manufacturer	VENDOR	Price US\$	QTY
Preamp PCB							
INPUT TRANSFORMER							
T1,2	CMLI-15/15B	Line Input Transformer 1:1, 15Kohms I/O	R20,30 = 18K		Cinemaq	\$45.00	2
Other Choice	JTP11-P1	Line Input Transformer 1:1, 13Kohms I/O	R20,30 = 15K		Jensen	\$79.00	0
SEMI-CONDUCTORS							
U20,30		AD711, JFET Op-Amp	DIP-8		Newark	\$2.45	2
D1		1N4007, Diode	DO-41		Digikey	\$0.05	1
LED1,2	516-1396-ND	Led, Red, 3MM, HLMP-6000	T-1		Digikey	\$0.35	2
LED3		Led, Red, 3MM HI-EFF DIFFUSED	T-1		Digikey	\$0.19	1
LED4		Led, Green, 3MM HI-EFF DIFFUSED	T-1		Digikey	\$0.19	1
V1		ECC88, Dual Triode	9 pins	Mullard	Local	\$26.67	0
Other Choice		ECC88, Dual Triode	9 pins	Siemens	Local	\$26.67	0
"		PCC189, Dual Triode (7V Heater)	9 pins	Telefunken	Local	\$26.67	0
"	TUBEEH-64459	ECC88/6DJ8/6922, Dual Triode, Gold Pin	9 pins	ElectroHarmonix	PartsX	\$17.95	1
Q1-4		Trans. 2N2222, NPN (or BC546)	TO-92		Digikey	\$0.33	4
Q5	IRF510L-ND	Trans. IRF510, Mosfet	TO-220AB		Digikey	\$0.95	1
CAPACITORS							
C1-4	38M4504	Cap.220uF, 35V, Rybicon ZL	D10,P5,L13		Newark	\$0.15	8
C5		Cap. 47uF, 25V, Nichicon	D5,P2.5		Local	\$0.00	1
C20,30	RELCAP-58800	Cap. 0.01uF, 200V, Teflon, RelCap	D.21" X L.53"		PartsX	\$25.45	2
"	AURICAP- 68149	Cap. 0.01uF, 600V, Film, Auricap	D.36" X L.4"		PartsX	\$10.36	0
"	MUNDORF- 70269	Cap. 0.01uF, 1200V, Silver Foil/Oil, Mundorf	D12 X L27		PartsX	\$23.20	0
"	HQVLAND-51689	Cap. 0.01uF, 1600V, Film, Hovland	D.39 X L1.17		PartsX	\$10.75	0
"	JENSEN-64482	Cap. 0.01uF, 630V, Copper Foil, Jensen	D.5" X L1.1"		PartsX	\$19.55	0
C21,31		Cap. 0.68uF, 63V, Film, MKS3, Wima	L10,P7.5	Wima	Local	\$0.92	2
Other Choice	MULTICAP-51413	Cap. 0.68uF, 200V, Film, MultiCap	L10,P7.5		PartsX	\$4.46	2
C22,23,32,33	505mkp20.1/100/5	Cap. 100nF, Wima MKP 100V	C5B5		Mouser	\$0.65	4
C24,34	30K6756	Cap. 4.7uF, 400V, Film, (Axial)	D22XL46	ILC	Newark	\$4.31	2
Other Choice	SOLEN-51550	Cap. 4.7uF, 400V, Film, (Axial)	D22XL33	Solen	PartsX	\$3.15	0
RESISTORS - 1/4W, 1% (Otherwise Noted)							
VR1		Pot. 100K, Stereo Log, Noble AP25		Noble	Percy	\$19.95	1
POT1,2		Pot. 500R, 3.8", Vertical, Linear, 25T, 64W pin		Spectrol	Newark	\$1.59	2
R1,3	1.74KXBK-ND	Res. 1K74 1/4W, 1%, MF, MF25		Yageo	Digikey	\$0.10	2
R2,4		Led Green (Change, used to be resistors)			Digikey	\$0.10	2
R5	475KXBK-ND	Res. 475K, 1/4W, 1%, MF, MF25		Yageo	Digikey	\$0.10	1
R6,7	475KXBK-ND	Res. 4K75 1/4W, 1%, MF, MF25		Yageo	Digikey	\$0.10	2
R20,30	15.0KXBK-ND	Res. 15K, 1/4W, 1%, MF, see Note	RN55	Yageo	Digikey	\$0.10	2
R26,R36	1.00MXBK-ND	Res. 1M, 1/4W, 1%, MF, MF25	RN60	Yageo	Digikey	\$0.10	2
R21,31	10.0MXBK-ND	Res. 10M, 1/4W, 1%, MF, MF25		Yageo	Digikey	\$0.10	2
R22,32	100KXBK-ND	Res. 100K, 1/4W, 1%, MF, MF25		Yageo	Digikey	\$0.10	2
R23,R33	1.00KXBK-ND	Res. 1K, 1/4W, 1%, MF, MF25	RN60	Yageo	Digikey	\$0.10	2
R24,34	221XBK-ND	Res. 221R, 1/4W, 1%, MF, MF25	RN60	Yageo	Digikey	\$0.10	2
R25,35	100KXBK-ND	Res. 100K, 1/4W, 1%, MF, MF25	RN60	Yageo	Digikey	\$0.10	2
R26,R36	8.2KW-1-ND	Res. 8K25, 1W, 5%, MO	2W_RES_SB	Yageo	Digikey	\$0.15	2
HARDWARE & MISC							
HTR	281-1421-ND	Conn. 2 pins, Screw Terminal, 5MM	AK300/2	Weidmuller	Digikey	\$0.75	2
+/-12V Supplies	281-1421-ND	Conn. 3 pins, Screw Terminal, 5MM	AK300/3	Weidmuller	Digikey	\$0.75	2
HV Supplies	281-1421-ND	Conn. 4 pins, Screw Terminal, 5MM	AK300/4	Weidmuller	Digikey	\$0.75	2
Supplies Input	281-1421-ND	Conn. 8 pins, Screw Terminal, 5MM	AK300/4	Weidmuller	Digikey	\$0.75	1
Leds Conn.	93K5737	Header, 4 pins, gold	jumper		Newark	\$0.10	1
Regulator PCB							
SEMI-CONDUCTORS							
U1		LM 317T, Adj. Volt Reg. Pos.	TO-220		Digikey	\$0.64	1
U2		LM 337T, Adj. Volt Reg. Neg.	TO-220		Digikey	\$1.08	1
D1-4		1N4004, Diode Rectifier, 1A,400V	DO-41		Digikey	\$0.05	4
D20,30		1N4744A, Diode Zener, 15V, 1W	DO-41		Digikey	\$0.11	2
Q1	IRF510L-ND	Trans. IRF510, Mosfet	TO-220AB		Digikey	\$0.95	1
Q20,30	89K0813	Trans. MJE340, VCE: 300V, NPN, TO-220	TO-126	SMTElect	Newark	\$0.33	2
Q21,31	84K8811	Trans. MPSW42, NPN, VCE: 300	TO-92	ON	Newark	\$0.30	2
CAPACITORS							
C1,2	505mkp20.1/100/5	Cap. 100nF, Wima MKP 100V	C5B5		Mouser	\$0.65	2
C3-6,C25,35	38M4504	Cap.220uF, 35V, Rybicon ZL	D10,P5,L13		Newark	\$0.15	6
C7		Cap. 22uF, 25V, Nichicon	D5,P2.5		Local	\$0.00	1
C22,32	30K6778	Cap. 50uF, 250V, Film, (Axial)	D40L55P0.8	ILC	Newark	\$24.66	2
Other Choice	18C4646	Cap. 47uF, 200V, Electrolytic, (Axial)	D18L30	Vishay	Newark	\$2.94	0
C24,34	66K5344	Cap. 1uF, 200V MKP (Axial)	D12XL32	CDE	Newark	\$5.01	2
RESISTORS - 1/4W, 1% (Otherwise Noted)							
R1,2	1.0KXBK-ND	Res. 1K, 1/4W, 1%, MF, MF25	0309/12	Yageo	Digikey	\$0.10	2
R3,4	121XBK-ND	Res. 121R, 1/4W, 1%, MF, MF25	0309/12	Yageo	Digikey	\$0.10	2
R5,6	120W-5-ND	Res. 120R, 5W, 5%, WR, (L24,D10)	0617/22	Yageo	Digikey	\$0.35	2
R7	P300W-2BK-ND	Res. 300R, 2W, 5%, MO	2W_RES_SB	Panasonic	Digikey	\$0.29	1
Other Choice	45F120-ND	Res. 120R, 5W, 1%, Silicone	L24,D7	Ohmite	Digikey	\$1.15	0
R8	475KXBK-ND	Res. 475K, 1/4W, 1%, MF, MF25		Yageo	Digikey	\$0.10	1
R26,R36	8.2KW-1-ND	Res. 8K25, 1W, 5%, MO	2W_RES_SB	Yageo	Digikey	\$0.15	2
R27,29,37,39	15KW-1-ND	Res. 15K, 1W, 5%, MO	2W_RES_SB	Yageo	Digikey	\$0.15	4
R28,38	39KW-1-ND	Res. 39K, 1W, 5%, MO	2W_RES_SB	Yageo	Digikey	\$0.15	2
R29a,39a	PPC470KW-1CT-ND	Res. 470K, 1W, 5%, MF	0309/12	Vishay	Digikey	\$0.37	2
HARDWARE & MISC							
	345-1030-ND	TO-220 Heatsinks, Vert, 7.5deg, with pin, Blk	SK104_SB		Digikey	\$1.24	2
HTR	281-1421-ND	Conn. 2 pins, Screw Terminal, 5MM	AK300/2	Weidmuller	Digikey	\$0.75	2
+/-12V Supplies	281-1421-ND	Conn. 3 pins, Screw Terminal, 5MM	AK300/3	Weidmuller	Digikey	\$0.75	2
HV Supplies	281-1421-ND	Conn. 4 pins, Screw Terminal, 5MM	AK300/4	Weidmuller	Digikey	\$0.75	2
Supplies Input	281-1421-ND	Conn. 7 pins, Screw Terminal, 5MM	AK300/4	Weidmuller	Digikey	\$0.75	1
Rectifier PCB and Supply							
T1	VPS230-110	Transformer, Dual Prim, Sec: 120V, 022A		Triad	Digikey	\$13.70	1
T2	229C34	Transformer, Dual Prim, Sec: 2X17V,.7A,24VA		Hammond	Newark	\$20.93	1
EMI Filter	Coil	Coil D25D12,P22 10mm apart				\$0.00	1
Ca,Cb	Caps	Cap. 0.1uF, 250V, X2 Rating	L13W3.5P10	L17W5P15		\$0.00	2
D1-D8	77K9974	UF5408, Diode Soft Recovery, 3A,1000V	DO-201AD		Newark	\$0.32	8
D9		1N4004, Diode Rectifier, 1A,400V	DO-41		Local	\$0.05	1
C1-C4,C12,13		Cap. 0.1uF, 250V, X2 Rating	L17W5P15	Philips		\$0.00	6
C4-C8	505mkp20.1/100/5	Cap. 100nF, Wima MKP 100V	C5B5		Mouser	\$0.65	4
C9		Cap. 470uF, 200V, Nichicon	D25P10L35		Re-use	\$0.00	1
C9a		Cap. 2.2uF, 250V, MKP, X2	L30W18P28	Philips	Local	\$0.00	1
C10,11		Cap. 3300uF, 35V, Nichicon CE	D30,P10,L25		Digikey	\$2.25	2
C10a,11a		Cap. 1.5uF, 63V, ERO MKC1862	L18,W7,P15		Local	\$0.00	2
R1	PPC470KW-1CT-ND	Res. 470K, 1W, 5%, MF	0309/12	Vishay	Digikey	\$0.37	1
R2,3	4.75KXBK-ND	Res. 4K75 1/4W, 1%, MF, MF25		Yageo	Digikey	\$0.10	2
R4		Res. 10R, 3W, 5%, MO			Digikey	\$0.37	1
Led1,2	67-1154-ND	Led, 3MM SUPER RED DIFF PANEL MT		Lumex Opto	Digikey	\$1.30	1
RV1	S14K275E2	VARISTOR 275V RMS 14MM RADIAL	D15P7.5		Digikey	\$0.68	1
RLY1	G8P-1A4P-DC12	RELAY PC MNT SPST-NO 30A 12V,90ma	G8P-RELAY	Omron	Digikey	\$3.14	1
AC Input	Q210-ND	AC Input Conn.			Digikey	\$1.00	1
S1	Power-On Switch	Switch SPDT			Local	\$0.00	1
F1		Fuse, 1A, 250V, SB, 3AG			Local	\$0.00	1
Fuse Socket		Fuse Socket 3AG			Local	\$0.00	1
Transfo AC Input	281-1421-ND	Conn. 2 pins, Screw Terminal, 5MM	AK300/2	Weidmuller	Digikey	\$0.75	2
Transfos Out	281-1421-ND	Conn. 3 pins, Screw Terminal, 5MM	AK300/3	Weidmuller	Digikey	\$0.75	2
Supplies Output	281-1421-ND	Conn. 7 pins, Screw Terminal, 5MM	AK300/4	Weidmuller	Digikey	\$0.75	1
X1L,N	A29938CT-ND	Stack-On, PCB mount connector			Digikey	\$0.06	2
Leds Conn.	93K5737	Header, 3 pins, gold	jumper		Newark	\$0.10	1
J1	GK-R7-21C-1/2	Cannon Plug, 7 pins, Female		ITT-Cannon	Local	\$0.00	1
HARDWARE & MISC							
Case Power Supply	1458D4	Case, 8"X8"X4", Steel, Black		Hammond	e-sonic	\$52.00	1
CONNECTORS							
Single Ended RCA	CARDAS- 62010	RCA Female Jack, Cardas GRFA-Thin		Cardas	PartsX	\$16.95	
Balanced Input	87F6600	NC3FD-H Rear XLR 3pins Fem			Newark	\$4.26	
Balanced Output	87F6598	NC3MD-HRear XLR 3pins Male			Newark	\$5.01	