

Qty	Parts	Mfg Name	Mfg Part Number	Mouser Part Number	Alternate Mouser PN	DigiKey Part Number	Description	Price Ea	Price Ext	Notes
9	C1, C2, C10, C12, C13, C14, C15, C16, C17	Nichicon	UFG1H100MDM	647-UFG1H100MDM		493-13388-ND	Aluminum Electrolytic Capacitors - Leaded 50volts 10uF 85C	\$ 0.42	\$ 3.78	Upgrade: Elna Silmic RFS, 10uF 35V (Mouser RFS-35V100ME3#5)
4	C3, C5, C6, C11	Nichicon	UFG1V471MHM	647-UFG1V471MHM		493-10906-1-ND	Aluminum Electrolytic Capacitors - Leaded 35volts 470uF 85C	\$ 1.08	\$ 4.32	
8	C4, C7, C8, C9, C18, C19, C20, C21	WIMA	MKS2C031001A00KSSD	505-MKS2.1/63/10	<i>871-B32529C104K</i>	<i>495-2465-ND</i>	Capacitors 63V .1uF 10%	\$ 0.24	\$ 1.92	
1	D1	STMicroelectronics	P6KE33A	511-P6KE33A	512-P6KE33A	497-16186-1-ND	Transient Voltage Suppressors SM6T Transil series	\$ 0.38	\$ 0.38	
1	D2	Fairchild Semiconductor	1N5245B	512-1N5245B	78-1N5245B	1N5245BFS-ND	Zener Diodes 15V 0.5W Zener	\$ 0.11	\$ 0.11	
2	D3, D4	Fairchild Semiconductor	1N4148	512-1N4148	78-1N4148	1N4148FSTR-ND	Diodes - General Purpose, Power, Switching 100V Io/200mA	\$ 0.10	\$ 0.20	
1	D5	Lumex	SSF-LXH103GD-04UC	696-FLXH103GD04UC	749-H101CGD	67-1236-ND	LED Circuit Board Indicators LED CBI	\$ 0.34	\$ 0.34	Any LED works
1	J1	CUI Inc.	PJ-102AH	490-PJ-102AH		CP-102AH-ND	DC Power Connectors Power Jacks	\$ 1.18	\$ 1.18	
2	J2, J4	Kobiconn	161-4218-E	161-4218-E	<i>490-RCJ-2123</i>	<i>CP-1432-ND</i>	RCA Phono Connectors PHONO DUAL RED/WHITE	\$ 0.81	\$ 1.62	Upgrade: Mouser 161-4220E (Gold)
1	J3	REAN	NRJ6HF	550-20311	550-20384		Phone Connectors 3C STEREO 3-SPST NC NO HARDWARE	\$ 0.59	\$ 0.59	Upgrade: Mouser 550-20311AU (Gold)
1	K1	TE / P&B	V23079A1005B301	V23079A1005B301	769-TX2-24V-1	PB290-ND	PCB Low Signal Relays - PCB 24VDC NON-LATCH	\$ 2.43	\$ 2.43	
1	L1	Kemet	SU9V-05020	80-SU9V-05020	963-TLF9UA202WR54K1	399-10721-ND	Common Mode Chokes / Filters 0.5amp 2mH	\$ 0.90	\$ 0.90	
1	Q1	Fairchild Semiconductor	2N7000	512-2N7000	689-2N7000-G	2N7000FS-ND	MOSFET N-CHANNEL 60V 200mA	\$ 0.37	\$ 0.37	
2	Q2, Q3	Fairchild Semiconductor	2N3904	512-2N3904BU	610-2N3904	2N3904FS-ND	BJT NPN Transistor General Purpose	\$ 0.17	\$ 0.34	
8	R1, R2, R13, R14, R19, R20, R22, R23	KOA Speer	MF1/4DC4753F	660-MF1/4DC4753F	603-MFR-25FBF52-475K	475KXBK-ND	Through Hole Metal Film Resistors - 1/4W 475K ohm 1%	\$ 0.12	\$ 0.96	
2	R12, R15	KOA Speer	MF1/4DC3322F	660-MF1/4DC3322F	603-MFR-25FBF52-33K2	33.2KXBK-ND	Through Hole Metal Film Resistors - 1/4W 33.2K ohm 1%	\$ 0.12	\$ 0.24	
3	R5, R21, R24	KOA Speer	MF1/4DC1002F	660-MF1/4DC1002F	603-MFR-25FBF52-10K	10.0KXBK-ND	Through Hole Metal Film Resistors - 1/4W 10K ohm 1%	\$ 0.12	\$ 0.36	
2	R8, R9	KOA Speer	MF1/4DC1R00F	660-MF1/4DC1R00F	603-MFR-25FBF52-1R	<i>1.0QBK-ND</i>	Through Hole Metal Film Resistors - 1/4W 1 ohm 1%	\$ 0.10	\$ 0.20	
1	R10	KOA Speer	MF1/4DC40R2F	660-MF1/4DC40R2F	603-MFR-25FBF52-40R2	40.2XBK-ND	Through Hole Metal Film Resistors - 1/4W 40.2 ohm 1%	\$ 0.12	\$ 0.12	
2	R3, R4	KOA Speer	MF1/4DC1001F	660-MF1/4DC1001F	603-MFR-25FBF52-1K	1.00KXBK-ND	Through Hole Metal Film Resistors - 1/4W 1K ohm 1%	\$ 0.12	\$ 0.24	
4	R6, R7, R11, R16	KOA Speer	MF1/4DC1500F	660-MF1/4DC1500F	603-MFR-25FBF52-150	150XBK-ND	Through Hole Metal Film Resistors - 1/4W 150ohms 1%	\$ 0.12	\$ 0.48	
2	R17, R18	Bourns	PV37W102C01B00	81-PV37W102C01B00	858-64WR1KLF	490-2969-ND	Through Hole Trimmer Resistors - 1.0Kohms 6mm SQ	\$ 2.08	\$ 4.16	
1	RV1	ALPS	RK09712200HA	688-RK09712200HA	<i>652-PTD902-2015FA103</i>	<i>PTD902-2015F-A103-ND</i>	Potentiometers 10 KOhms Dual Audio	\$ 1.63	\$ 1.63	Upgrade:TKD 2CP601-10K (Parts Connexion)
1	S1	E-Switch	100SP1T2B4M7RE	612-100-A2472	108-0020-EVX	EG2364-ND	Toggle Switches ON-ON SPDT R/A	\$ 3.29	\$ 3.29	
3	TP1, TP2, TP3	Keystone Electronics	5006	534-5006	534-5007	36-5006-ND	PCB Test Point Black 0.063	\$ 0.32	\$ 0.96	Optional
2	U1, U2	Texas Instruments	OPA551PA	595-OPA551PA		OPA551PA-ND	High Current Opamp	\$ 5.12	\$ 10.24	Possible to use others
1	U3	Texas Instruments	UA78M33CKCS	998-MIC2940A-3.3WT	296-21633-5-ND	576-1134-ND	LDO Voltage Regulator 3.3V TO-220	\$ 0.90	\$ 0.90	
2	At U1, U2	Milli-Max	110-41-308-41-001000	575-11041308410010	575-113308	ED90515-ND	IC Socket 8 pin	\$ 0.76	\$ 1.52	
1	Case	Serpac	051-I-BLACK	635-051-I-B		SR051-IB-ND	Enclosures, Boxes, & Cases 3.26X5.63X.91 BK	\$ 6.88	\$ 6.88	Or build your own
1	AC Adapter	Mean Well	GST25U24-P1J	709-GST25U24-P1J		T1073-P5P-ND	Wall Mount AC Adapters 25W 24V	\$ 12.67	\$ 12.67	
1	Knob	Davies Molding	1230-J	5164-1230-J	450-BA361		Control Knob 6mm Flat to 4.5mm	\$ 0.94	\$ 0.94	Or use other, shaft is 6mm
1	PCB + Nutube 6P1	pmillett.com					Blank PCB plus Korg Nutube 6P1	\$ 50.00	\$ 50.00	

*Italic = similar part*

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Total

\$ 114.27