

Designator	Part Description	Manufacturer Part No.	Quick Circuits Supply & Assemble ?	Comment	Qty per board
SMD components pre-assembled					
C1, C2, C3, C5, C18, C19, C20, C22	100p 50V NPO 0805	KEMET - C0805C101F5GAC	Yes	CAPACITOR MLCC, 100PF, 50V, 1%, 0805	8
D1, D2, D3, D4	RS1D	FAIRCHILD SEMICONDUCTOR - RS1D	Yes	DIODE, RECT, FAST, 1A, 200V, SMA	4
D5	BZX384C18	NXP - BZX384-C18	Yes	DIODE, ZENER, 18V, 5%, SOD-323	1
D6, D8	BAS316	NXP - BAS316,135	Yes	Diodes - General Purpose, Power, Switching DIODE SW TAPE-11	2
R1, R9, R11, R18, R29, R36, R38, R45	100R 0805 thin film	Susumu - RG2012P-101-B-T5	Yes		8
R2, R3, R13, R14, R30, R31, R40, R41	1k 0805 precision thin film	Susumu - RG2012P-102-B-T5	Yes		8
R4, R15, R32, R42	22R 0805	TE - CPF0805B22RE1	Yes		4
R6, R12, R33, R39	47k 0805	Susumu - RG2012P-473-B-T5	Yes		4
R7, R16, R34, R43	12k 0805	Susumu - RG2012P-123-B-T5	Yes		4
R8, R17, R35, R44	10k 0805 precision thin film	Susumu - RG2012P-103-B-T5	Yes		4
R10, R37	2M2 0805	Vishay - CRCW08052M20FKEA	Yes		2
R19, R22, R46, R49	10k 0805	Susumu - RG2012P-103-B-T5	Yes		4
R20, R23, R47, R50	220k 0805	Susumu - RG2012P-224-B-T5	Yes		4
R24, R54	2k2 0805	Susumu - RG2012P-222-B-T5	Yes		2
R25, R26, R27, R28	2R2 1206 high current	Vishay / Draloric - SMM02040C2208FB300	Yes	have to be Minimelf ones, normal SMD resistors will burn	4
T3	BC846B	NXP - BC846B	Yes	TRANSISTOR, NPN, 65V, SOT-23	1
U1, U2, U6, U7	LM4562 SO8	LM4562MA/NOPB	Yes		4
U3	LM4562 SO8	LM4562MA/NOPB	Yes	TL072 (as originally proposed) has a DC offset that is way too large and is adding offset of its own.	1
Through-hole components to complete board					
C4, C7, C8, C9, C21, C23, C24, C25	10u 50V Non-Polar	ELNA - RBD-50V101M	No	Aluminium Electrolytic Capacitors - Leaded 50V 100uF 20% Bipolar	8
C10, C16, C26, C27, C28, C29	22u 63V	ELNA - RFS-100V220MH5#5	No	Aluminium Electrolytic Capacitors - Leaded 22uF 100V 20% Audio SILMIC II	6
C12, C13, C14, C15	1000u 25V	ELNA - RFS-25V102MJ8#5	No	Aluminium Electrolytic Capacitors - Leaded 1000uF 25V 20% Audio SILMIC II	4
J1, J3, J7, J9	NC3FAH2	NEUTRIK - NC3FAH1	No	CONNECTOR, XLR, PANEL, THT, 3WAY	4
J2, J8	NC3MAH1	NEUTRIK - NC3MAH1	No	PLUG, XLR, PANEL, HORIZ/PCB, 3POLE	2
J6	JST-B3P-VH	JST B3P-VH(LF)(SN)	No	CONN HEADER VH TOP 3POS 3.96MM Lead-free	1
K1, K2, K3	Relay 12V 2x1A DPDT	TE CONNECTIVITY - MT2-C93402	No	Low Signal Relays - PCB DPDT 1.25A 12VDC MT2	3
R5	PTD902-2015F-A103 (linear)	PTD902-2015F-A103 (linear)	No	Bourns Potentiometer 10K LINEAR	1
S1	Toggle switch SPDT	MULTICOMP - 2MS1T2B2M7RE	No	SWITCH, TOGGLE, SPDT, ON-ON	1
U4	+12V Regulator	Hypex HPR12	No	https://www.hypexshop.com/DetailServlet?detailID=2013	1
U5	-12V Regulator	Hypex HNR12	No	https://www.hypexshop.com/DetailServlet?detailID=2014	1