

Bill Of Materials Page1

Item	Quantity	Reference	Part	Digikey #	Footprint		
1	1	C1	10uf	P5309-ND	CAP 10UF 100V ALUM LYTIC RADIAL	RC100\200+	
2	4	C2,C6,C15,C16	2.2nf	1119PHCT-ND	CAP 100V .0022UF AXIAL CERAM X7R	AC100\100	
3	4	C3,C7,C11,C12	1uf	P5305-ND	CAP 1.0UF 100V ALUM LYTIC RADIAL	RC100\200+	
4	4	C4,C5,C8,C9	100uf	P5192-ND	CAP 47UF 63V ALUM LYTIC RADIAL	RC100\250+	Note: changed to 47uf for fit
5	5	C10,C19,C20,C21,C22	.1uf	399-2127-ND	CAP .1UF 50V 20% CER RADIAL	AC100\100	
6	4	C13,C14,C17,C18	500pf	399-1837-1-ND	CAP 470PF 100V 10% CER AXIAL	AC100\100	Note: changed to 470pf
7	1	D1	1N5817	1N5817DICT-ND	DIODE SCHOTTKY 20V 1A DO-41	D400(CA,AN)	
8	1	D2	LED	P562-ND	LED RED CLEAR 3MM ROUND	LED_1	Optional power indicator
9	1	JP2	HEADER 9			SIP\9P	Not used
10	5	JP3,JP4,JP5,JP6,JP7	HEADER 2	ED1514-ND	TERMINAL BLOCK 3.5MM 2POS PCB	SIP\2P	
11	1	JP8	HEADER 4X2			J\8P	Not used
12	1	JP9	12 HEADER	ED1524-ND	TERMINAL BLOCK 3.5MM 12POS PCB	3_81_T_BLOCK12	
13	1	JP10	HEADER 8			SIP\8P	Not used
14	3	J1,J2,J3	SOLDER			SOLDER	Note: not a part
15	1	R1	450	470QBK-ND	RES 470 OHM 1/4W 5% CARBON FILM	R400	Optional
16	4	R2,R3,R10,R11	20K	CFR-25JB-20K	RES 20K OHM 1/4W 5% CARBON FILM	AC100\100	
17	4	R4,R5,R12,R13	6K	6.2KEBK-ND	RES 6.2K OHM 1/8W 5% CARBON FILM	AC100\100	Optional needed if small pots are used
18	4	R6,R7,R14,R15	6.6K	6.65KXBK-ND	RES 6.65K OHM 1/4W 1% METAL FILM	AC100\100	
19	4	R8,R9,R16,R17	25k POT (OPT.)	3266W-253-ND	POT 25K OHM 1/4" SQ CERM SL MT	SMALL TRIMPOT	
20	4	R19,R20,R21,R22	10K			R400	Not used
21	1	R23	10K	4610X-1-103-ND	RES NET 10 SIP BUSSED 10K OHM	SIP\10P	
22	1	U1	LM7805	LM7805CT-ND	IC REG 1A POS 0-125DEG C TO-220	TO220AB	
23	4	U2,U3,U4,U5	LMD18245	LMD18245T-ND	IC H BRIDGE 3A 55V TO-220	TO-220PWR	
24	1	U6	44 pin PLCC	ED80024-ND	CONN PLCC SOCKET 44POS THRU HOLE	PLCC44/TMS/.950	Note: PLD is programmed and provided by EAS
25	1	U7	Oscillator(dip8)			DIP8	Not used
26	1	U8	DS1233			TO-92A	Not used