

Bill Of Materials November 10,2008 17:38:53 Page1

Item	Quantity	Reference	Part	Supplier
1	2	C1,C2	22pf	Digikey 399-4162-ND (Kemet C315C220J2G5TA)
2	6	C3,C4,C5,C6,C11,C14	0.1uf	Digikey 399-4151-ND (Kemet C315C104M5U5TA)
3	2	C7,C8	0.01uf 5%	Mouser 581-BF014D0103J (AVX BF014D0103J)
4	1	C9	0.0018uf 5%	Mouser 581-BF014D0182J (AVX BF014D0182J)
5	1	C10	0.0047uf 5%	Mouser 581-BF014D0472J (AVX BF014D0472J)
6	3	C12,C13,C15	22uf/25V	Digikey P5149-ND (PANASONIC ECA-1EM220)
7	1	D1	1N4148	
8	1	H1	MTA-156	Digikey A1973-ND (TYCO AMP 640445-6)
9	1	H2	TOGGLE SWITCH	Mouser 611-7101-064 (C&K 7101MDZQE)
10	2	J1,J2	1/4" Jacks	Mouser 502-112AX (Switchcraft 112AX)
11	1	LED1	RED LED	
12	1	P1,P2,P3,P4	100KB POTS	Mouser 31VA501-F (Alpha Pots RV24AF-10-15R1-B100K) Small Bear Electronics (cheaper)
13	1	Q1	2N3904	Mouser 512-2N3904BU (FAIRCHILD 2N3904BU)
14	1	R1	100k 5%	
15	7	R6,R7,R9,R10,R11,R12	1k 5%	
		R18		
16	1	R2	270k 5%	
17	1	R3	4.7k 5%	
18	1	R4	150 5%	
19	1	R5	10k 5%	
20	2	R8,R13	12k 5%	
21	2	R14,R17	22k 5%	
22	2	R15,R16	33k 5%	
23	2	R19,R20	10ohms 5%	
24	1	U1	CD4049 CMOS INVERTER/BUFFER	
25	1	U5	TL072 DUAL OPAMP	
26	1	U6	PIC16F684 MICROCHIP	
27	1	Y1	20Mhz CRISTAL	Digikey X195-ND (ECS inc. ECS-200-20-4DN)

Hardware:

28	4	COSMO Knobs# 7602		Small Bear Electronics
29	4	Round Standoffs 4-40 .250"		Digikey 3478K-ND (KEYSTONE 3478)
30	4	Stain. Steel screws 4-40 1/2"		Pièces machinerie Delisle
31	4	Locking hex nuts 4-40 nickel		Pièces mach. Delisle (SPAENAU N-180K-RC)
32	1	IC machined socket 8 pins		Digikey AE10011-ND (ASSMAN AR08-HZL-TT-R)
33	1	IC machined socket 14 pins		Digikey AE10012-ND (ASSMAN AR14-HZL-TT-R)
34	1	IC machined socket 16 pins		Digikey AE10013-ND (ASSMAN AR16-HZL-TT-R)
35	1	Aluminium 1/16" thick front panel (1U Moog style)		
36	1	Auto-adhesive silkscreen front panel artwork		