

Bill Of Materials February 3, 2013 14:16:30 Page1

Item	Quantity	Reference	Part	Supplier
1	25	C1,C2,C4,C5,C6,C7,C10, C15,C16,C17,C18,C19,C20, C101,C102,C104,C105,C107, C110,C115,C116,C117,C118, C119,C120	0.1uf	(Digikey 399-4151-ND)
2	8	C3,C8,C9,C11,C103,C108, C109,C111	10uf/25V	(Digikey 338-1697-ND)
3	6	C12,C13,C14,C112,C113, C114	1uf/50V	(Digikey 338-2364-ND)
4	8	D1,D2,D3,D4,D101,D102, D103,D104	1N4148	(Digikey 1N4148FS-ND)
5	2	H1,H101	6 pins 0.156"	Tyco connector (Digikey A1973-ND)
6	1	H2	ICD connector vertical 6 pins	(Digikey 609-1063-ND)
7	2	LED1,LED2,LED3,LED101 LED102,LED103	LEDS Lumex SSL-LX50931D-5V	(Digikey 67-1106-ND)
8	1	LED4	LED JUMBO Lumex SSI-LXH1090SRD	(Digikey 67-1174-ND)
9	4	L1,L2,L101,L102	FERRITE BEADS (	Digikey P9820BK-ND)
10	6	Q1,Q2,Q3,Q101,Q102,Q103	2N3904 NPN	(Mouser 512-2N3904BU)
11	2	R1,R101	4K02 0.1%	
12	2	R2,R102	150R 0.1%	
13	18	R3,R7,R9,R11,R12,R13,R14, R16,R17,R103,R107,R109, R111,R112,R113,R114,R116, R117	100K 0.1%	
14	13	R4,R5,R6,R8,R19,R21,R23, R105,R106,R108,R119,R121, R123	10K 5%	
15	2	R10,R110	49K9 0.1%	
16	2	R15,R115	200K 0.1%	
17	8	R18,R20,R22,R24,R118, R120,R122,R124	150R 5%	
18	2	U1,U101	REF02 5.00v prec. volt. ref.	(Digikey REF02HPZ-ND)
19	6	U2,U3,U4,U102,U103,U104	LF412 prec. opamp	(Digikey LF412CPE4-ND)
20	2	U5,U105	PIC16F88 Microchip CPU	

Hardware:

21	2	Machined IC sockets gold 18pos. .300" DIP	(Digikey AE10014-ND)
22	1	Aluminium 1/16" thick front panel (1U Moog style)	
23	1	Auto-adhesive silkscreen front panel artwork	
24	4	Round Standoffs 4-40 .250"	Digikey 3478K-ND (KEYSTONE 3478)
25	4	Stain. Steel screws 4-40 1/2"	Pièces machinerie Delisle
26	4	Locking hex nuts 4-40 nickel	Pièces mach. Delisle (SPAENAU N-180K-RC)
27	1	IC machined socket 18 pins	Digikey AE10014-ND (ASSMAN AR18-HZL-TT-R)
28	6	LED black plastic holders	Avago 6mm LED holders
29	1	S1 (Main switch)	CW RED Rocker switch GR5-626-6010
30	-	Wiring AWG#22	