

Revised: Monday, July 19, 2004
Revision: 1

MBARI
7700 Sandholdt Road
Moss Landing CA 95039
831-775-1700

Item	Quantity	Reference	Value	Tolerance	Rating	Type	PCB Footprint	Manufacturer Number	Distributor Number	Description	Comment
1	3	C11,C12,C13	MMNLC	Contact		20-16AWG	DUMMY	AMP 171637-3		Contact, Mini Univeral Mate-N-Lok, 20-16AWG, Duplex Plated	
2	10	C1,C2,C5,C8,C9,C13,C14,C16,C17,C18		0.0033		Y1		Panasonic ECK-DNA332ME	DigiKey P10453-ND	CAP 3300PF 250V CERAMIC DISC Y1	
3	6	C3,C6,C7,C10,C12,C15	33F		2.5V			CooperBussman B1835-2R5336	DigiKey 283-2510-ND	CAPACITOR 33F 2.5V RAD AEROGEL Powerstor	
4	1	C4	10 uF		450V	Al Elect High Ripple		PanasonicEEU-EB2W100	DigiKey P5946-ND	CAP 10UF 450V ELECT EB RADIAL, 12.5mm dia x 20mm	
5	4	C11,C19,C20,C21	10uF		10% 16V	X5R	SM/C_1210	Kemet C1210C106K4PACTU	DigiKey 399-3150-1-ND		
6	1	C22		0.1	10%	X7R	SM/C_0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R		
7	1	D51	LAMP NEON			A1C	A1C_NEON	Chicago Miniature Lamp A1C	Mouser 606-A1C	95/135V T-2 NEON LMP	
8	1	D1	12CWQ03FN				D2PAK	Intl Rect 47CTQ020S	DigiKey 47CTQ020S-ND	DIODE SCHOTTKY 20V 40A D2PAK	
9	2	D6,D2	200V		1.5kW			Vishay 1.5KE200A	Newark 09F2534		
10	2	D3,D7	220V		1.5kW			Vishay 1.5KE220A	Newark 09F2542		
11	2	D4,D9	TLGV1020			Yel/Grn	TLGV1020_TOSHIBA	Toshiba TLGV1020	Marktech		
12	2	D5,D8	70DW-04				BAS70_SOT363	Diodes Inc BAS70DW-04-7	DigiKey BAS70DW-04DICT-ND		
13	2	FB1,FB2	600 ohms @ 100MHz		300 mA	603	HZ0603C601R-00	Steward HZ0603C601R	DigiKey 240-1143-1-ND		
14	2	FC2,FC1	CLIPS			1/4 x 1-1/4	MMNLS8	Bussmann BK/1A1907-05	DigiKey 283-2342-ND	PC Mount, Beryllium Copper, Silver Plate, 2 ea	
15	2	F2,F1	1/4A		250V	MDA TIME DELA	DUMMY	Bussmann BKMDA- 1/4	DigiKey 283-2287-ND	FUSE 1/4A 250V T-LAG CRM MDA	
16	3	JMP1,JMP2,JMP3	PWB Jumper				JMPR_2				
17	1	J1	MUMNL8J				AMP_8_PIN HEADER	AMP 794065-2	DigiKey A25605-ND	Header, Mini Universal Mate-N-Lok, Dual Row, Straight, 8 Circuit, Duplex Plated	
18	1	J2	MMNL4J				A25603-ND	AMP770174-2	DigiKey A25599-ND	Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 4 Circuit, Duplex Plated	
19	1	J3	MMNL12J				AMP_770972	AMP 770972-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 12 Circuit, Duplex Plated	
20	1	L1	BNX-005		50V/15A		BNX005	Murata BNX005-01			
21	1	L2	501-12				WCMAG-501_THROUGH	West Coast Magnetics 501-12		Common Mode Inductor, 416 uH	
22	1	L3	501-1				WCMAG-501_SURFACE	West Coast Magnetics 501-1		Common Mode Inductor, 1980 uH	
23	1	P_400V_1	MMNL4P				DUMMY	AMP 172167-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, Dual Row, 4 Circuit	
24	1	P1	MMNL8P				DUMMY	AMP 770579-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, 8 Circuit	
25	1	P2	MMNL12P				DUMMY	AMP 770581-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, Dual Row, 12 Circuit	
26	4	R1,R2,R15,R16		300	1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
27	1	R3	240k		5%	1W	SM/R_2512	KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series		
28	7	R4,R8,R10,R13,R14,R17,R22	10k		5%	1/8 W		805 KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
29	2	R5,R18	90.9k		1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
30	2	R19,R6	49.9k		1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
31	2	R7,R20	10k			3266W		Bourns 3266W-103-ND	DigiKey 3266W-103-ND	POT 10K OHM 1/4" SQ CERM SL MT	
32	1	R9	27.4k		1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
33	2	R31,R11	3.3k		5%	1/8 W		KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
34	1	R12	2.00k		1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
35	1	R21		0.005	1%	1W	WSK	WSK2512	Vishay Dale WSK2512-0.005-1%	Mouser 71-WSK2512-0.005/R	4-Terminal Resistor
36	1	R23	1k		1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
37	1	R24	24k		1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
38	1	R25		249	1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
39	4	R26,R27,R28,R29	261k		1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
40	1	R30	2.61k		1%	1/8 W		KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
41	10	ST1,ST2,ST3,ST4,ST5,ST6,ST7,ST8,ST9,ST10	SCREW TERMINAL				MT_HOLE_NO_4				
42	16	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16	T POINT S				TP_5015	Keystone 5015	DigiKey 5015KCT-ND	SMT Test Point .040"ii	
43	2	U1,U3	VI-J62-CZ			Vicor		Vicor VI-J62-CZ			
44	2	U2,U4	OP196				OP196	Analog Devices OP196GS		Micropower Op Amp	
45	1	U5	AD592CN								
46	1	U6	AD202		1 kV		AD202_JOSE	Analog Devices AD202JY		Isolation Amplifier	
47	1		1 WARNING TRIANGLE				DUMMY				