

Parts List		MOOS Mooring Controller RF Interface Board					Copyright © 2003 MBARI
M B A R I 		Monterey Bay Aquarium Research Institute 7700 Sandholdt Rd. Moss Landing, CA 95039-9644			Drawn by: Lance McBride		All information herein is considered proprietary and may not be copied, duplicated, or transmitted without the express permission of Monterey Bay Aquarium Research Institute
					Date: 1/29/2004		
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					Rev: A.2		
Item Number	Quantity	Datasheet	Manufacturer	Part Number	Value	Description	Part Reference
1	38		Kemet	C0805C104K5RACTU	0.1uF	0.1uF,50V,10%, X7R	C6 C7 C18 C19 C22 C25 C26 C27 C28 C29 C30 C31 C32 C34 C35 C37 C38 C39 C41 C42 C44 C45 C47 C48 C49 C50 C51 C52 C54 C56 C57 C58 C59 C60 C62 C63
2	1		Panasonic	EEV-HA1V101XP	100uF	CAPACITOR TANT 100UF 20V 20% SMD	C14
3	10		Kemet	T491D106K035AS	10uF	CAPACITOR TANT 10UF 35V 10% SMD	C4 C5 C11 C15 C23 C24 C33 C40 C46 C65
4	2		Kemet	C0603C220J5GACTU	22pF	CAP CERAMIC 22PF 50V NP0 0603	C20 C21
5	4		Kemet	C0603C105K8PACTU	1uF	CAP CERAMIC 1.0UF 10V X5R 0603	C36 C43 C53 C61
6	4		Panasonic	EEV-HA1V221P	200uF	CAP 220UF 35V ELECT HA SMD	C12 C13 C15 C17
7	2		Panasonic	ERJ-6ENF4990V	499 1%	RES 499 OHM 1/10W 1% 0805 SMD	R124 R125
8	4		Panasonic	ERJ-6ENF1001V	1.0k 1%	RES 1.00K OHM 1/10W 1% 0805 SMD	R46 R120 R121 R122
9	7		Panasonic	ERJ-6ENF5490V	549 0.1W 1%	RES 549 OHM 1/10W 1% 0805 SMD	R49 R63 R76 R82 R114 R117 R118
10	5		Panasonic	ERJ-6ENF1002V	10k 1%	RES 10.0K OHM 1/10W 1% 0805 SMD	R45 R50 R115 R119 R126
11	18		Panasonic	ERJ-6ENF1003V	100k	RES 100K OHM 1/10W 1% 0805 SMD	R1 R11 R16 R17 R29 R34 R43 R59 R90 R91 R96 R97 R102 R106 R107 R108 R113 R123
12	4		Panasonic	ERJ-6ENF6191V	6.19k 0.1W 1%	RES 6.19K OHM 1/10W 1% 0805 SMD	R47 R48 R52 R116
13	5		Panasonic	ERJ-6GEY0R00V	0 1/10W 5%	RES 0.0 OHM 1/8W 5% 0805 SMD	R2 R3 R4 R70 R71
14	4		Murata	BNX003-01	BNX003-01	Leaded EMI Supression Filters 150V 10A	FL1 FL2 FL3 FL4
15	4		Panasonic	ELJ-FD1R8KF	1.8uH	INDUCTOR 1.8UH 10% FIXED SMD	L5 L6 L7 L8
16	4		J W Miller Magnetics	78F100J	10uH @ 500kHz	Inductor, 10uH 5% Axial	L1 L2 L3 L4
17	10		Aromat/Nais	TF2-L2-12V	TF2-L2-12V	RELAY DPDT 1A 12VDC PC MNT	LS1 LS2 LS3 LS4 LS5 LS6 LS7 LS8 LS9 LS10
18	1		Alcoswitch_Tyco	FSMSM	FSMSM	SWITCH TACT 6X3.5MM SMD 130GF	SW1
20	1		ECS,Inc.	ECS-36-20-18-TR	3.6864MHz	CRYSTAL 3.6864MHZ 20PF SMD	Y1
21	2		Hirose	DF11-18DP-2DSA(20)	DF11-18DP-2DSA(20)	CONN HEADER 18POS 2MM PCB TIN	J1, J2
22	1		3M	2514-6002	MSP430_JTAG	Header, 2x7 Double row 0.100"	J4
25	1		ERNI	593812	DIN60+4	Connector,PCB,DIN60+4	P1
26	4		ERNI	594169	n/a	Pin, High Current for PN 593812	P1 (pins)
27	20		Vishay	1N4148W	1N4148W	DIODE SWITCH 75V 400MW SOD-123	D9 D10 D12 D13 D15 D17 D18 D19 D20 D21 D22 D25 D26 D27 D28 D29 D30 D31 D32 D33
28	11		Toshiba	TLGV1020	TLGV1020	LED, Green Low Current	D1 D2 D3 D4 D7 D8 D11 D14 D16 D23 D24
29	1		Littelfuse	5KP15A	5KP15A	TVS 15 VOLT 5000 WATT UNI-DIR	D6
30	1		Diodes_Inc	1N4729A-T	1N4729A-T	DIODE ZENER 3.6V 1W 5% DO-41	D5
31	1		Central_Semiconductor	CMPD6263S	CMPD6263S	Diode, Dual Shottky, Series	DN1
31ALT	1		Vishay	BAS70-04	CMPD6263S	Diode, Dual Shottky, Series	DN1
32	17		ON_Semiconductor	MMBZ15VDLT1	MMBZ15VDLT1	Diode, Dual common cathode,15V	DN2 DN3 DN4 DN5 DN6 DN7 DN8 DN9 DN10 DN11 DN12 DN13 DN14 DN15 DN16 DN17 DN18
33	22		Vishay	Si2306DS	Si2306DS	MOSFET N-CH 30V 3.25A SOT-23	Q1 Q2 Q3 Q5 Q6 Q7 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q23 Q24 Q25 Q26
34	1		Central_Semiconductor	CMUT3904	CMUT3904	NPN_SM	Q4
35	2		MBARI_Stock	LND150N8	LND150N8	MOSFET_Depl_Mode_N_Chan_SOT-89_500V_1KOhm	Q8 Q9
36	1		ON_Semiconductor	MTDF1N03HDR2	MTDF1N03HDR2	Transistor, MOSFET, Power, 30V, 1.5A, Dual N Channel	Q22
37	3		Maxim	MAX4649EKA-T	MAX4649	IC_SW_ANLG_45_OHM_SPDT_SOT23-8	U12 U14 U15
38	1		Linear_Technology	LT1495CS8	LT1495/SO	Dual_Op_Amp_Rail_Rail	U13
39	1		Astec	AEE00B12-49	AEE00B12-49	DC-DC_Conv_10W_9-18Vin_12V_Out	U9
40	1		Maxim	MAX3244ECWI	MAX3244E	RS232_Xceiver	U8
41	2		BurrBrown_TI	ISO122U	ISO122U	IC_ISOLATION_AMPLIFIER_28_SOIC	U7 U10
42	3		AnalogDevices	ADuM1402	ADuM1402	Quad_Channel_Digital_Isolators	U3 U5 U6
43	1		Texas Instruments	MSP430F149IPM	MSP430F149IPM	IC_16BIT_MCU_60KB_FLASH_64-LQFP	U2
44	1		Texas Instruments	REG113NA-3.3/3k	REG113NA-3.3/3k	IC_LDO_REG_5V_400MA_SOT23-5	U19
45	1		Fairchild	NC7WP08K8X	NC7WP08	Tinylogic_US8-8_DI_2-Inp_AND_Gate	U16
46	1		Fairchild	NC7SVU04P5X	NC7SVU04	Tinylogic_SC70-5_Unbuffered_Inverter	U18
47	1		Maxim	MAX3233ECWP	MAX3233ECWP	IC_TXRX_RS232_DUAL250KBPS_20SOIC	U17
48	2		BurrBrown_TI	OPT101P-J	OPT101P-J	IC_AMP_MONOLTHC/PHOTDIODE_8-SMD	U1 U11
49	1		Maxim	MAX811SEUS-T	MAX811SEUS-T	IC_MPU_V-MONITOR_2.93V_SOT143-4	U4