

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
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					Rev: A		
Item Number	Quantity	Datasheet	Manufacturer	Part Number	Value	Description	Part Reference
1	38		Kemet	C0805C104K5RACTU	0.1uF	0.1uF,50V,10%, X7R	C1 C2 C3 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C25 C28 C31 C32 C35 C36 C38 C39 C40 C43 C44 C45 C47 C48 C51 C52 C53 C54 C59 C60
2	1		Panasonic	EEV-HA1V101XP	100uF	CAPACITOR TANT 100UF 20V 20% SMD	C4
3	10		Kemet	T491D106K035AS	10uF	CAPACITOR TANT 10UF 35V 10% SMD	C5 C20 C21 C23 C24 C29 C30 C37 C49 C50
4	2		Kemet	C0603C220J5GACTU	22pF	CAP CERAMIC 22PF 50V NP0 0603	C26 C27
5	4		Kemet	C0603C105K8PACTU	1uF	CAP CERAMIC 1.0UF 10V X5R 0603	C33 C34 C41 C42
6	4		Panasonic	EEV-HA1V221P	200uF	CAP 220UF 35V ELECT HA SMD	C55 C56 C57 C58
7	2		Panasonic	ERJ-6ENF4990V	499 1%	RES 499 OHM 1/10W 1% 0805 SMD	R1 R31
8	4		Panasonic	ERJ-6ENF1001V	1.0k 1%	RES 1.00K OHM 1/10W 1% 0805 SMD	R2 R3 R4 R6
9	7		Panasonic	ERJ-6ENF5490V	549 0.1W 1%	RES 549 OHM 1/10W 1% 0805 SMD	R5 R29 R34 R39 R40 R41 R42
10	5		Panasonic	ERJ-6ENF1002V	10k 1%	RES 10.0K OHM 1/10W 1% 0805 SMD	R7 R32 R35 R36 R43
11	13		Panasonic	ERJ-6ENF1003V	100k	RES 100K OHM 1/10W 1% 0805 SMD	R26 R27 R28 R61 R95 R102 R105 R115 R116 R126 R127
12	4		Panasonic	ERJ-6ENF6191V	6.19k 0.1W 1%	RES 6.19K OHM 1/10W 1% 0805 SMD	R30 R33 R37 R38
13	5				0 1/10W 5%		R47 R49 R50 R53 R55
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	L2 L4 L6 L7
16	4				10uH @ 500kHz		L10 L11 L12 L13
17	10		Aromat/Nais	TF2-12V	TF2-DPDT	RELAY DPDT 1A 12VDC PC MNT	LS1 LS2 LS3 LS4 LS5 LS7 LS8 LS9 LS10 LS11
18	1		Alcoswitch_Tyco	FSMSM	FSMSM	SWITCH TACT 6X3.5MM SMD 130GF	SW1
19	44		MBARI_Stock		TEST POINT	Testpoint, thruhole w/misc. color band	TP1 TP2 TP3 TP4 TP5 TP6 TP8 TP9 TP10 TP11 TP12 TP13 TP14 TP15 TP16 TP17 TP18 TP19 TP20 TP21 TP22 TP23 TP24 TP25 TP26 TP27 TP28 TP29 TP30 TP31 TP32 TP33 TP34 TP35 TP36 TP37 TP38 TP39 TP40 TP41 TP42 TP43 TP45 TP46
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		MBARI_Stock	Header_2x7_0.1"	MSP430_JTAG	Header, 2x7 Double row 0.100"	J3
23	6		MBARI_Stock	Header_1x8_0.1"	1X8 HEADER	Header, 1x8 SIP 0.100"	J4 J7 J8 J9 J10 J11
24	2		MBARI_Stock	Header_1x9_0.1"	1x9 SIP Header	Header, 1x9 SIP 0.100"	J5 J6
25	1		ERNI	593812	DIN60+4	Connector,PCB,DIN60+4	P1
26	10		Diodes_Inc.	1N4148W-7	1N4148W-7	DIODE SWITCH 75V 400MW SOD-123	D1 D2 D3 D4 D5 D7 D8 D9 D10 D11
27	11		Chicago_Miniature_Lamp_Inc.	OLS-156G	OLS-156G	LED_Grn_Low_Current_SMT_1206	D17 D18 D20 D21 D22 D23 D24 D25 D26 D27 D30
28	1		Littelfuse	5KP15A	5KP15A	TVS 15 VOLT 5000 WATT UNI-DIR	D28
29	1		Diodes_Inc	1N4729A-T	1N4729A-T	DIODE ZENER 3.6V 1W 5% DO-41	D29
30	1		Central_Semiconductor	CMPD6263S	CMPD6263S	Diode, Dual Schottky, Series	DN1
31	17		ON_Semiconductor	MMBZ15VDLT1	MMBZ15VDLT1	Transorb,15V,Unidirectional	DN2 DN3 DN4 DN5 DN6 DN7 DN8 DN9 DN10 DN11 DN12 DN13 DN14 DN15 DN16 DN17
32	17		International_Rectifier	IRLML2803TR	IRLML2803	HEX/MOS N-CH 30V 1.2A SOT-23	Q1 Q2 Q3 Q5 Q6 Q7 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19
33	1		Central_Semiconductor	CMUT3904	CMUT3904	NPN_SM	Q4
34	2		MBARI_Stock	LND150N8	LND150N8	MOSFET Depl Mode N Chan SOT-89 500V 1KOhm	Q8 Q9
35	1		ON_Semiconductor	MTDF1N03HDR2	MTDF1N03HDR2	Transistor, MOSFET, Power, 30V, 1.5A, Dual N Channel	Q10
36	3		Maxim	MAX4649EKA-T	MAX4649	IC_SW_ANLG_45_OHM_SPDT_SOT23-8	U3 U26 U30
37	1		Linear_Technology		LT1495/SO	Dual_Op_Amp_Rail_Rail	U4
38	1		Astec	AEE00B12-49	AEE00B12-49	DC-DC_Conv_10W_9-18Vin_12V_Out	U5
39	1		Maxim		MAX3244E	RS232_Xceiver	U14
40	2		BurrBrown_TI	ISO122U	ISO122U	IC_ISOLATION_AMPLIFIER_28_SOIC	U16 U22
41	3		AnalogDevices	ADuM1402	ADuM1402	Quad_Channel_Digital_Isolators	U17 U18 U19
42	1		Texas Instruments	MSP430F149IPM	MSP430F149IPM	IC_16BIT_MCU_60KB_FLASH_64-LQFP	U21
43	1		Texas Instruments	REG113NA-5/3K	REG113NA-3.3/3k	IC_LDO_REG_5V_400MA_SOT23-5	U23
44	1		Fairchild	NC7WP08K8X	NC7WP08	Tinylogic_US8-8_DI_2-Inp_AND_Gate	U34
45	1		Fairchild	NC7SVU04P5X	NC7SVU04	Tinylogic_SC70-5_Unbuffered_Inverter	U35
46	1		Maxim	MAX3233ECWP	MAX3233ECWP	IC_TXRX_RS232_DUAL250KBPS_20SOIC	U24
47	2		BurrBrown_TI	OPT101P-J	OPT101P-J	IC_AMP_MONOLTHC/PHOTDIODE_8-SMD	U25 U27
48	1		Maxim	MAX811SEUS-T	MAX811SEUS-T	IC_MPU_V-MONITOR_2.93V_SOT143-4	U29