

Parts List		PUCK						Copyright © 2003 MBARI			
		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: B.1					
Item Number	Quantity	Datasheet	Manufacturer	Part Number	Value	Description	Part Reference	Distributor	Distributor Part Number	Total Cost	Cost
1	1	n/a	MBARI	1001859 Rev 2	n/a	PCB, Puck Rev 2	n/a	n/a	n/a		
2	1	x	Panasonic	EEV-HA1V221P	220uF	Capacitor, Electrolytic 220uF 35V 20%	C1	Digi-Key	PCE3226CT-ND	\$0.83	
3	4		Kemet	T491B474K035AS	0.47uF	Capacitor, Tantalum SMT 0.47uF 35V 10%	C2,C3,C15,C16	Mouser	80-T491B474K035	\$1.52	\$0.38
4	5		Kemet	C0805C104Z5VACTU	0.1uF	Capacitor, Ceramic 0.1uF 50V Y5V	C4,C6,C7,C13,C14	Mouser	80-C0805C104Z5V	\$0.55	\$0.11
5	4		Kemet	T494B106M010AS	10uF	Capacitor, Tantalum SMT 10uF 10V 20%	C5,C8,C11,C12	Mouser	80-T494B106M010	\$2.72	\$0.68
6	2		Kemet	C0805C150K5GACTU	15pF	Capacitor, Ceramic 15pF 50V 10% COG	C10,C9	Mouser	80-C0805C150K5G	\$0.38	\$0.19
7	1	x	Sanyo	4TPB100M	100uF	Capacitor, Low-ESR 100uF 8% 4V	C17	First Phase Components			
8	2		Diodes Inc	1N4148W-7	1N914 or 1N4148	DIODE SWITCH 75V 400MW SOD-123	D7,D1	Digi-Key	1N4148WDICT-ND	\$0.88	0.44
9	4	x	On Semiconductor	MMBZ15VDLT1	MMBZ15DLT1	Diode, Zener Transient Voltage Suppressor (12-	D2,D3,D4,D5	Digi-Key	MMBZ15VDLICT-ND	\$2.00	\$0.50
10	1	x	General Semiconductor	1.5SMC27A	25.7V	TRANSORB, TVS 25.7V-100A	D6	Mouser	511-SM15T27A	\$0.74	\$0.74
11	1	x	Littlefuse	R459.001	1A	Fuse, PICO Fast Acting SMD 1A	F1	Digi-Key	F1165CT-ND	\$0.88	\$0.88
12	1		MBARI STOCK	MBARI STOCK	CON7-RA	Header, 1x7 7-pin 0.100" right angle	J1	MBARI	MBARI	\$0.00	\$0.00
13	1		MBARI STOCK	MBARI STOCK	1x9 0.1" HEADER	Header, 1x9 9-pin 0.100"	J2	MBARI	MBARI	\$0.00	\$0.00
14	1		3M	2514-6002	2514-6002	Header, 2x7 14-pin 0.100"	J3	Digi-Key	MHB14K-ND	\$1.37	\$1.37
15	1		MBARI STOCK	MBARI STOCK	JUMPER	Header, 1x2 2-pin 0.100"	J4	MBARI	MBARI	\$0.00	\$0.00
16	3		Aromat	TF2-12V	RLY NAIS TF2	Relay, DPDT 12V 6.5mA	K1,K2,K3	Digi-Key	255-1017-5-ND	\$16.23	\$5.41
17	1	x	International Rectifier	IRLML2803	IRLML2803	Transistor, MOSFET N-channel	Q1	Allied Electronics	273-0183	\$0.28	\$0.28
alt 17			Vishay	2N7002K		Transistor, MOSFET N-channel	Q1	Mouser	None in stock	\$0.00	\$0.15
18	2		Zetex, Inc.	FMMT4401TA	MMFT4401	Transistor, NPN	Q2,Q3	Digi-Key	FMMT4401CT-ND	\$0.72	\$0.36
19	2	x	Panasonic	EXB-38V472JV	EXB-38V472JV	Resistor, Network Isolated 4.7k, 5%, 1/16W	RN1,RN2	Digi-Key	Y9472CT-ND	\$0.19	\$0.10
20	1		Yageo	RSF200JB-120R	120	Resistor, Metal Oxide 120ohm 5% 2W, Axial Lead	R1	Digi-Key	120W-2-ND	\$0.23	\$0.23
21	2		Vishay/Dale	CRCW08054K75FKTA	4.751k 1% 1/10W	Resistor, Thick Film 4.75k 1% 1/10W	R2,R4	Mouser	71-CRCW0805-4.75K	\$0.20	\$0.10
22	1		Vishay/Dale	CRCW0805432RFKTA	432 1% 1/10W	Resistor, Thick Film 432 ohm 1% 1/10W	R3	Mouser	71-CRCW0805-432	\$0.10	\$0.10
23	1		Xicon	292-32.4	32.4 1% 1/10W	Resistor, Metal Film 32.4 1% 1/10W	R5	Mouser	292-32.4	\$0.09	\$0.09
24	1		Vishay/Dale	RN50C8871FB14	8.87k 1/10W 1%	Resistor, 8.87k 1% 1/10W	R6	Mouser	71-RN50C-F-8.87K	\$0.48	\$0.48
25	1		Vishay/Dale	CRCW080515K4FKTA	15k 1/10W 1%	Resistor, Thick Film, 15.4k 1/10W 1%	R7	Mouser	71-CRCW0805-15.4K	\$0.10	\$0.10
26	1		Vishay/Dale	CRCW080550R0FKTA	50.9 1% 1/10W	Resistor, Thick Film, 50 1% 1/10W	R8	Mouser	71-CRCW0805-50	\$0.10	\$0.10
27	16		MBARI STOCK	MBARI STOCK	TEST POINT		TP1,TP2,TP3,TP4,TP5,TP6, TP7,TP8,TP9,TP10,TP11, TP12,TP13,TP14,TP15,TP16	MBARI STOCK	MBARI STOCK	\$0.00	\$0.00
28	1		Astec Power	AA05E-012L-033S	AA05E-012L-033S	CONV DC-DC 5W 12VIN 3.3V SNG	U1	Digi-Key	454-1001-ND	\$54.19	\$54.19
29	1		Matsushita Electric Works	AQW212A	AQW212A	Dual Transistor Output Solid State Relay	U2	Newark	95B9352	\$7.90	\$7.90
30	1	x	Texas Instruments	MSP430F149IPM	MSP430F149IPM	IC, Microcontroller, Ultra Low Power	U3	Digi-Key	296-9615-ND	\$9.55	\$9.55
31	1	x	Atmel	AT45DB081B-RC	AT45DB081B-RC	IC, Memory, Flash 2Mx16 1Mbit	U4	Digi-Key	AT45DB081B-RC-ND	\$10.79	\$10.79
32	1	x	Maxim	MAX3160CAP	MAX3160CAP	IC, Transceiver RS-232/RS-485	U5	Maxim Direct			
33	2		NEC	PS2701	PS2701	OPTOCOUPLER 1 CHAN SMD TRAN OUT	U6,U7	Digi-Key	PS2701-1-ND	\$1.20	\$0.60
34	1	x	AVX	PBRC-7.37GR	PBRC-7.37AR	Resonator, Ceramic 7.37MHz (no internal caps)	Y1	Mouser	PBRC-7.37AR	\$1.00	\$1.00