

Parts List		PUCK					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			
						Date:	5/28/03			
						Doc. #:	1001859			
						Rev:	B			
Item Number	Quantity	Datasheet	Manufacturer	Part Number	Value	Description	Part Reference	Distributor	Distributor Part Number	Cost
1	1		MBARI	1001859 Rev. 2		PCB, Puck		n/a	n/a	\$25.00
2	4		Kemet	T491B474K035AS	0.47uF	Capacitor, Tantalum SMT 0.47uF 35V 10%	C23 C24 C25 C26	Mouser	80-T491B474K035	\$0.38
3	5		Kemet	C0805C104Z5VACTU	0.1uF	Capacitor, Ceramic 0.1uF 50V Y5V	C4, C6, C7, C14, C22	Mouser	80-C0805C104Z5V	\$0.11
4	4		Kemet	T494B106M010AS	10uF	Capacitor, Tantalum SMT 10uF 10V 20%	C8 C9 C12 C13	Mouser	80-T494B106M010	\$0.68
5	2		Kemet	C0805C150K5GACTU	15pF	Capacitor, Ceramic 15pF 50V 10% COG	C10 C11	Mouser	80-C0805C150K5G	\$0.19
6	1	x	Panasonic	EEV-HA1V221P	220uF	Capacitor, Electrolytic 220uF 35V 20%	C16	Digi-Key	PCE3226CT-ND	\$0.83
7	1	x	Sanyo	4TPB100M	100uF	Capacitor, Low-ESR 100uF 8% 4V	C17	First Phase Components		
8	1		Vishay/Dale	CRCW080515K4FKTA	15k	Resistor, Thick Film, 15.4k 1/10W 1%	R2	Mouser	71-CRCW0805-15.4K	\$0.10
9	1		Vishay/Dale	CRCW080550R0FKTA	50	Resistor, Thick Film, 50 1% 1/10W	R17	Mouser	71-CRCW0805-50	\$0.10
	1		Xicon	292-32.4	32.4	Resistor, Metal Film 32.4 1% 1/10W	R30	Mouser	292-32.4	\$0.09
10	2		Vishay/Dale	CRCW08054K75FKTA	4.7k	Resistor, Thick Film 4.75k 1% 1/10W	R7, R8	Mouser	71-CRCW0805-4.75K	\$0.10
11	2	x	Panasonic	EXB-38V472JV	EXB-38V472JV	Resistor, Network Isolated 4.7k, 5%, 1/16W	RN1 RN2	Digi-Key	Y9472CT-ND	\$0.10
	1		Vishay/Dale	RN50C8871FB14	8.87k	Resistor, 8.87k 1% 1/10W	R3	Mouser	71-RN50C-F-8.87K	\$0.48
12	1		Yageo	RSF200JB-120R		Resistor, Metal Oxide 120ohm 5% 2W, Axial Lead	R1	Digi-Key	120W-2-ND	\$0.23
13	1		Vishay/Dale	CRCW0805432RFKTA		Resistor, Thick Film 432 ohm 1% 1/10W	R16	Mouser	71-CRCW0805-432	\$0.10
14	1		MBARI STOCK	MBARI STOCK		1x9 0.1" HEADER	J1	MBARI	MBARI	\$0.00
15	3		Aromat	TF2-12V	DPDT	Relay, DPDT 12V 6.5mA	K1, K2, K3	Digi-Key	255-1017-5-ND	\$5.41
16	16		MBARI STOCK	MBARI STOCK		TEST POINT	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16	MBARI	MBARI	\$0.00
17	1	x	Littlefuse	R459.001	1A	Fuse, PICO Fast Acting SMD 1A	F1	Digi-Key	F1165CT-ND	\$0.88
18	1		MBARI STOCK	MBARI STOCK		Header, 1x7 7-pin 0.100"	J7	MBARI	MBARI	\$0.00
19	1		3M	2514-6002	2514-6002	Header, 2x7 14-pin 0.100"	J6	Digi-Key	MHB14K-ND	\$1.37
20	1		MBARI STOCK	MBARI STOCK		Header, 1x2 2-pin 0.100"	J13	MBARI	MBARI	\$0.00
21	1	x	AVX	PBRC-7.37GR	PBRC-7.37AR	Resonator, Ceramic 7.37MHz (no internal caps)	Y1	Mouser	PBRC-7.37AR	\$1.00
22	2		Fairchild Semiconductor	1N914TR		Diode, Small Signal Rectifier	D10, D30	Digi-Key	1N914TRCT-ND	\$0.09
23	2		Zetex, Inc.	FMMT4401TA	NPN	Transistor, NPN	Q2, Q3	Digi-Key	FMMT4401CT-ND	\$0.36
24	4	x	On Semiconductor	MMBZ15VDLT1	MMBZ15DLT1	Diode, Zener Transient Voltage Suppressor (12-15V)	D5 D6 D7 D8	Digi-Key	MMBZ15VDLDICT-ND	\$0.50
25	1	x	General Semiconductor	1.5SMC27A	25.7V	TRANSORB, TVS 25.7V-100A	D9	Mouser	511-SM15T27A	\$0.74
26	1	x	International Rectifier	IRLML2803	IRLML2803	Transistor, MOSFET N-channel	Q1	Allied Electronics	273-0183	\$0.28
27			Vishay	2N7002K		Transistor, MOSFET N-channel	Q1	Mouser	None in stock	\$0.15
28	1		Astec	AA05E-012L-033S		Power Supply, DC/DC Isolated 12V -> 3.3V	U7	Digi-Key	454-1001-ND	\$54.19
29	2		NEC	PS2701-1		Optoisolator, 40V	U13, U30	Digi-Key	PS2701-1-ND	\$0.60
30	1	x	Atmel	AT45DB081B-RC	AT45DB081B-RC	IC, Memory, Flash 2Mx16 1Mbit	U8	Digi-Key	AT45DB081B-RC-ND	\$10.79
31	1	x	Texas Instruments	MSP430F149IPM	MSP430F149IPM	IC, Microcontroller, Ultra Low Power	U5	Digi-Key	296-9615-ND	\$9.55
32	1	x	Maxim	MAX3160CAP	MAX3160CAP	IC, Transceiver RS-232/RS-485	U6	Avnet	Not Available	\$7.20
33	1		Matsushita Electric Works	AQW212		IC, Dual PhotoMOS Solid State Relay	U12	Newark	95B9352	\$7.90

\$146.24