

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
1	1	BTH1	BA2032SM					Memory Protection Devices BA2032SM	DigiKey BA2032SM-ND	HOLDER COIN CELL 2032 EJECT SMD
2	1	BT1	CR2032		220mAh	Li 3V	BAT DUMMY	Panasonic CR2032	DigiKey P189-ND	
3	2	C11,C12	MMNLCtact			20-16AWG	DUMMY	AMP 171637-3		Contact, Mini Univeral Mate-N-Lok, 20-16AWG, Duplex Plated
4	1	C1	1uF		10%	50V	SM/C 1210	Kemet C1210C105K5RACTU	DigiKey 399-3076-1-ND	Capacitor Polyester
5	18	C2,C3,C4,C5,C6,C8,C10, C11,C12,C13,C16,C22,C23, C25,C26,C27,C29,C32		0.1	10%	X7R	SM/C 0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R	
6	6	C7,C17,C18,C19,C20,C33	10uF		10%	16V	SM/C 1210	Kemet C1210C106K4PACTU	DigiKey 399-3150-1-ND	
7	2	C9,C28	180pF		5%	NPO	SM/C 0805	Vishay Vitramon VJ0805A	Garrett Lab Kit NPO VJ0805	
8	2	C14,C30		2.2		35V	SM/CT 6032 12	Vishay/Sprague 293D225X9035C2	Garrett 293D Lab Kit	
9	1	C15	33uF			6.3V	SM/CT 6032 12	Vishay/Sprague 293D336X96R3C2	Garrett 293D Lab Kit	
10	1	C21	47pF		10%	X7R	SM/C 0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R	
11	1	C31	3.3uF			20V	SM/CT 3216 12	Vishay/Sprague 293D335X9020A2	Garrett	
12	1	C34	10UF tant		10%	20V	SM/CT 6032 12	Kemet T491C106K020AS	DigiKey 399-1614-1-ND	
13	2	C35,C36	150UF		20%	4V	SP/UD	SM/CT 7343 12	Panasonic EEF-UD0G151R	DigiKey PCE2113CT-ND
14	1	C37		0.1	-400	25V	SM/C 0805	Panasonic ECJ-2VF1E104Z	DigiKey PCC1853CT-ND	
15	2	D1,D8	15V			600W	SMBJ15A	SMBJ15A-13	DiodesInc SMBJ15A-13	DigiKey SMBJ15ADICT-ND
16	7	D2,D3,D4,D5,D10,D14,D15	70DW-04					BAS70 SOT363	Diodes Inc BAS70DW-04-7	DigiKey BAS70DW-04DICT-ND
17	2	D6,D7	7.5V			150mW	MAZ8075	MAZ8000	Panasonic MAZ80750ML	DigiKey MAZ80750MLCT-ND
18	1	D9	1N5817MCT			20V	1A	1N5817	Diodes Inc 1N5817M	DigiKey 1N5817MDICT-ND
19	3	D11,D12,D13	TLGV1020				Yel/Grn	TLGV1020 TOSHIBA	Toshiba TLGV1020	Marktech
20	2	D16,D17	5.1V			600W	MAZ8051	DIOM2512N	Panasonic MAZ80510ML	DigiKey MAZ80510MLCT-ND
21	11	FB1,FB2,FB3,FB4,FB5,FB6, FB7,FB8,FB9,FB10,FB11	600 ohms @ 100MHz			300 mA	603	HZ0603CG601R-00	Steward HZ0603CG601R	DigiKey 240-1143-1-ND
22	9	FB12,FB13,FB14,FB15,FB16, FB17,FB18,FB19,FB20	31 ohms @ 100MHz			3A	805	HI0805Q310R-00	Steward HI0805Q310R	DigiKey 240-1007-1-ND
23	6	JMP1,JMP2,JMP3,JMP5,JMP6, JMP7	PWB Jumper					JMPR 2		
24	1	JMP4	PWB Jumper					RAD/.100X.050/LS.100/.031		
25	1	J1	MMNL12J					AMP 770972	AMP 770972-2	Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 12 Circuit, Duplex Plated
26	1	J2	BDM PORT					BLKCON.100/VH/TM2OE/W.200/10		
27	1	J3	MMNL4J					AMP 770968	AMP 770968-2	Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 4 Circuit, Duplex Plated
28	1	L1	22 uH		10%	1.3A	R622	R622LY-220K TOKO	Toko R622LY-220K	DigiKey TK4440-ND
29	1	P1	DIIn_96AnBnCn					DIIn96 ABC/R	ERNI 533-402	Force ERN533402
30	1	P2	MMNL12P					AMP 770581-1	AMP 770581-1	Housing, Mini Universal Mate-N-Lok, Free Hanging, Dual Row, 12 Circuit
31	1	P3	MMNL4P					AMP 172167-1	AMP 172167-1	Housing, Mini Universal Mate-N-Lok, Free Hanging, Dual Row, 4 Circuit
32	4	Q1,Q2,Q3,Q4	DN3545			450V	N-Ch Depletion	DN3545N3	Supertex DN3545N3	Mouser 689-DN3545N3
33	1	R1	1M			1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
34	2	R2,R3		49.9		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
35	2	R4,R40		0		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
36	3	R5,R16,R25	1k			5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
37	6	R6,R8,R21,R22,R23,R24		0		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
38	2	R7,R9	Open			1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
39	2	R10,R12	9.31k			1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
40	2	R11,R13		178		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
41	1	R14	162k			1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
42	2	R15,R31	102k			1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
43	2	R17,R18		49.9		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
44	2	R19,R20	1.33k			1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
45	1	R26	33k			5%	.063W	745C	CTS 745	DigiKey 745C101333JCT-ND
46	1	R27		68		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A

47	1	R28	10k		5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
48	1	R29	866k		1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
49	1	R30	11.8k		1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
50	1	R32	1.37k		1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
51	4	R33,R38,R41,R44		390	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
52	2	R34,R35	4.7k		5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
53	2	R36,R39	8.2k		5%	1W		SM/R 2512	KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series	
54	1	R37	1.00k		1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
55	1	R42	56k		5%	1W		SM/R 2512	KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series	
56	1	R43	1.5k		1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A	
57	2	R45,R47		330	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
58	1	R46	3.3k		5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
59	9	R48,R49,R50,R51,R52,R53, R54,R55,R56		33	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
60	1	R57	10k		5%	1/8 W			805 KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
61	2	SS1,SS2		929852				929852-01-36-10 3M	3M 929852-01-36-10	DigiKey 929852-01-36-ND	Boardmount Socket, Dual Row, Gold
62	1	SW1	EVQPPBA25					EVQ-PPBAS5_PANA	Panasonic EVQ-PPBA25	DigiKey PB086SCT-ND	Pushbutton Sw, J-Lead
63	26	TP1,TP2,TP3,TP4,TP5,TP6, TP7,TP8,TP9,TP10,TP11, TP12,TP13,TP14,TP15,TP16, TP17,TP18,TP19,TP20,TP21, TP22,TP23,TP24,TP25,TP26	T POINT S					TP 5015	Keystone 5015	DigiKey 5015KCT-ND	SMT Test Point .040"li
64	1	U1	LTC1726-2.5					LT1726	Linear Tech LTC1726ES8-2.5		Triple Supply Monitor and Watchdog Timer
65	1	U2	LTC1798-2.5					LT1798	Linear Tech LTC1798CS8-2.5		Micropower Reference
66	2	U3,U10	74HC138					SOG.050/16/WG.244/L.400	Fairchild MM74HC138M	DigiKey MM74HC138M-ND	
67	2	U4,U23	LT3010					LT3010	Linear Tech LT3010EMS8E		LDO Regulator
68	1	U5	CF-2					PERSISTOR_CF2	Persistor Instruments Inc		Data Logger
69	5	U6,U7,U8,U9,U19	LTC2433			0-70C		LTC2433-1	Linear Tech LTC2433-1CMS		16 Bit SigmaDelta A/D
70	2	U11,U21	74HC595					MM74HC595	Fairchild MM74HC595M	DigiKey MM74HC595M-ND	8 Bit Shift Register
71	2	U12,U16	74AHC1G125					SN74AHC1G125	Texas Inst SN74AHC1G125DBVR	DigiKey 296-8744-1-ND	Bus Buffer
72	1	U13	ADuM1401			1 MBPS Max		ADUM1401	Analog Devices ADuM1401ARW		Digital Isolator
73	2	U14,U15	NC7S14					NC7S14	Fairchild NC7S14M5X	DigiKey NC7S14M5CT-ND	Schmitt Inverter
74	1	U18	AT25256AN-10SI-2.7					AT25256W-10SI-2.7	Atmel		Serial SPI EEPROM, 32k x 8
75	1	U20	MS5535A					MS5535A	Intersema MS5535-AM		Pressure Sensor
76	1	U22	AD202			1 kV		AD202	Analog Devices AD202JY		Isolation Amplifier
77	1	U24	SHT11	3.5% RH				SHT11	Sensiron SHT11		Humidity Sensor
78	3	U25,U27,U28	PS7160L-1A			600V		PS7160L-1A	NEC PS7160L-1A	DigiKey PS7160L-1A-ND	PhotoMOS Relay
79	1	U26	MAX1837					MAX1837	Maxim MAX1837EUT33-T		Step-Down Converter
80	1	U30	PS7122L-1A			250V		PS7160L-1A	NEC PS7122L-1A	DigiKey PS7122L-1A-ND	PhotoMOS Relay
81	1	Y1	32.768kHz					ECS-327SMO	ECS International, Inc. ECS-327SMO	XC777CT-ND	Clock Oscillator