

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	BTH1	CR2032			220mAh	Li 3V	Panasonic CR2032	DigiKey P189-ND	
3	2	C1, C2	MMNLContact			20-16AWG	DUMMY	AMP 171637-3		Contact, Mini Universal Mate-N-Lok, 20-16AWG, Duplex Plated
4	1	C1	1uF		10%	50V	X7R	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	X5R	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	293D	SM/CT_6032_12	Vishay/Sprague 293D225X9035C2	Garrett 293D Lab Kit
9	1	C15	33uF			6.3V	293D	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	293D	SM/CT_3216_12	Vishay/Sprague 293D335X9020A2	Garrett
12	1	C34	10uF tant		10%	20V	T491	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	Y5V	SM/C_0805	Panasonic ECJ-2VF1E104Z	DigiKey PCC1853CT-ND
15	2	D6,D1	15V			600W	SMBJ15A	DiodesInc SMBJ15A-13	DigiKey SMBJ15ADICT-ND	
16	5	D2,D3,D4,D5,D10	70DW-04					BAS70_SOT363	Diodes Inc BAS70DW-04-7	DigiKey BAS70DW-04DICT-ND
17	2	D7,D6	7.5V			150mW	MAZ8075	Panasonic MAZ8000	DigiKey MAZ80750ML-ND	
18	1	D9	1N5817MCT			20V	1A	1N5817	Diodes Inc 1N5817M	DigiKey 1N5817MDICT-ND
19	3	D11,D12,D13	TLGV1020				Yel/Gm	TLGV1020_TOSHIBA	Toshiba TLGV1020	Marktech
20	11	FB1,FB2,FB3,FB4,FB5,FB6, FB7,FB8,FB9,FB10,FB11	600 ohms @ 100MHz			300 mA		603 HZ0603C601R-00	Steward HZ0603C601R	DigiKey 240-1143-1-ND
21	9	FB12,FB13,FB14,FB15,FB16, FB17,FB18,FB19,FB20	31 ohms @ 100MHz			3A		805 HI0805Q310R-00	Steward HI0805Q310R	DigiKey 240-1007-1-ND
22	6	JMP1,JMP2,JMP3,JMP5,JMP6, JMP7	PWB Jumper					JMPR_2		
23	1	JMP4	PWB Jumper					RAD/.100X.050/LS.100/.031		
24	1	J1	MMNL12J					AMP_770972	AMP 770972-2	Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 12 Circuit, Duplex Plated
25	1	J2	BDM PORT					BLKCON.100/VH/TM20E/W.200/10		
26	1	J3	MMNL4J					AMP_770968-2	AMP 770968-2	Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 4 Circuit, Duplex Plated
27	1	L1	22 uH		10%	1.3A	R622	R622LY-220K TOKO	Toko R622LY-220K	DigiKey TK4440-ND
28	1	P1	DN_96ArBnCn					DIN96 ABC/R	ERNI 533-402	Force ERN533402
29	1	P2	MMNL12P					DUMMY	AMP 770581-1	Housing, Mini Universal Mate-N-Lok, Free Hanging, Dual Row, 12 Circuit
30	1	P3	MMNL4P					DUMMY	AMP 172167-1	Housing, Mini Universal Mate-N-Lok, Free Hanging, Dual Row, 4 Circuit
31	4	Q1,Q2,Q3,Q4	DN3545			450V	N-Ch Depletion	DN3545N3	Supertex DN3545N3	Mouser 689-DN3545N3
32	1	R1	1M			1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
33	2	R3,R2		49.9		5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
34	2	R4,R40		0		5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
35	3	R5,R16,R25	1k			5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
36	6	R6,R8,R21,R22,R23,R24		0		1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
37	2	R9,R7	Open			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
38	2	R10,R12	9.31k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
39	2	R11,R13		178		1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
40	1	R14	162k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
41	2	R15,R31	102k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
42	2	R18,R17		49.9		1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
43	2	R20,R19	1.33k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
44	1	R26	33k			5% .063W	745C	CTS_745	CTS 745C10133JCT	DigiKey 745C10133JCT-ND
45	1	R27		68		5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
46	1	R28	10k			5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
47	1	R29	866k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
48	1	R30	11.8k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
49	1	R32	1.37k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
50	4	R33,R38,R41,R44		390		5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
51	2	R34,R35	4.7k			5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
52	2	R36,R39	8.2k			5% 1W		SM/R_2512	KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series
53	1	R37	1.00k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
54	1	R42	56k			5% 1W		SM/R_2512	KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series
55	1	R43	1.5k			1% 1/8 W		SM/R_0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
56	2	R45,R47		330		5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
57	1	R46	3.3k			5% 1/8 W		SM/R_0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
58	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
59	1	R57	10k			5% 1/8 W		805 KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A	
60	2	SS2,SS1		929852				3M 929852-01-36-10_3M	DigiKey 929852-01-36-ND	Boardmount Socket, Dual Row, Gold
61	1	SW1	EVQPPBA25					EVQ-PPBA55_PANA	Panasonic EVQ-PPBA25	Pushbutton Sw, J-Lead
62	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	SMT Test Point .040"ii

63	1	U1	LTC1726-2.5				LT1726	Linear Tech LTC1726ES8-2.5		Triple Supply Monitor and Watchdog Timer
64	1	U2	LTC1798-2.5				LT1798	Linear Tech LTC1798CS8-2.5		Micropower Reference
65	2	U10,U3	74HC138				SOG.050/16/WG.244/L.400	Fairchild MM74HC138M	DigiKey MM74HC138M-ND	
66	2	U23,U4	LT3010				LT3010	Linear Tech LT3010EMS8E		LDO Regulator
67	1	U5	CF-2				PERSISTOR CF2	Persistor Instruments Inc		Data Logger
68	5	U6,U7,U8,U9,U19	LTC2433		0-70C		LTC2433-1	Linear Tech LTC2433-1CMS		16 Bit SigmaDelta A/D
69	2	U21,U11	74HC595				MM74HC595	Fairchild MM74HC595M	DigiKey MM74HC595M-ND	8 Bit Shift Register
70	2	U16,U12	74AHC1G125				SN74AHC1G125	Texas Inst SN74AHC1G125DBVR	DigiKey 296-8744-1-ND	Bus Buffer
71	1	U13	ADuM1401		1 MBPS Max		ADUM1401	Analog Devices ADuM1401ARW		Digital Isolator
72	2	U15,U14	NC7S14				NC7S14	Fairchild NC7S14M5X	DigiKey NC7S14M5CT-ND	Schmitt Inverter
73	1	U18	AT25256AN-10SI-2.7				AT25256W-10SI-2.7	Atmel		Serial SPI EEPROM, 32k x 8
74	1	U20	MS5535A				MS5535A	Intersema MS5535-AM		Pressure Sensor
75	1	U22	AD202		1 kV		AD202	Analog Devices AD202JY		Isolation Amplifier
76	1	U24	SHT111	3.5% RH			SHT111	Sensiron SHT111		Humidity Sensor
77	3	U25,U27,U28	PS7160L-1A		600V		PS7160L-1A	NEC PS7160L-1A	DigiKey PS7160L-1A-ND	PhotoMOS Relay
78	1	U26	MAX1837				MAX1837	Maxim MAX1837EUT33-T		Step-Down Converter
79	1	U30	PS7122L-1A		250V		PS7160L-1A	NEC PS7122L-1A	DigiKey PS7122L-1A-ND	PhotoMOS Relay
80	1	Y1	32.768kHz				ECS-327SMO	ECS International, Inc. ECS-327SMO	XC777CT-ND	Clock Oscillator