

MBARI
7700 Sandholdt Road
Moss Landing CA 95039
831-775-1700
<OrgAddr4>

Item	Quantity	Reference	Value	Tolerance	Rating	Type	PCB Footprint	Manufacturer Number	Distributor Number	Description	
1	4	C11,C12,C13,C14	MMNLContact			20-16AWG	DUMMY	AMP 171637-3		Contact, Mini Universal Mate-N-Lok, 20-16AWG, Duplex Plated	
2	2	C15,C16	DIN Power Contact				DUMMY	ERNI 594 169		Right Angle, 4 Leg, 20 or 40 amp rating	
3	14	C1,C3,C5,C7,C9,C11,C13, C14,C20,C21,C25,C27,C32, C33	0.1	10%		X7R		1 Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R		
4	6	C2,C4,C6,C8,C10,C12	10uF		10%	16V	X5R	SM/C 1210	Kemet C1210C106K4PACTU	DigiKey 399-3150-1-ND	
5	4	C15,C16,C17,C18	1uF		10%	16V	X7R	1 Kemet C0805C105K4RACTU	DigiKey 399-1284-1-ND		
6	2	C30,C19	33uF			6.3V	293D	1\TORNADO\ORCAD\PROJECT	Vishay/Sprague 293D336X96R3C2	Garrett 293D Lab Kit	
7	1	C22	33uF			63V	FK	7700 Sandholdt Rd	Panasonic EEV-FK1J330P	DigiKey PCE3481CT-ND	Aluminum Electrolytic, ESR 0.65 ohm
8	2	C23,C28	0.1	10%	Rating	X7R		1 Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R		
9	1	C24	180pF		5%	NPO		1 Vishay Vitramon VJ0805A	Garrett Lab Kit NPO VJ0805		
10	1	C26	22uF			16V	T494D		Kemet T494D226K016AS	DigiKey 399-1782-1-ND	Tantalum, ESR 0.25 ohm
11	1	C29	1uF			50V	X7R	SM/C 1210	Kemet C1210C105K4RACTU	DigiKey 399-3076-1-ND	
12	1	C31	0.022	10%	Rating	X7R		1 Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R		
13	6	D1,D2,D3,D4,D5,D6	70DW-04				MSOP-10	Diodes Inc BAS70DW-04-7	DigiKey BAS70DW-04DICT-ND		
14	1	D7	60V			5kW	5KP60A	Vishay General Semi 5KP60A	Newark 28H8280		
15	1	D8	54V			600W	SMBJ54A	DiodesInc SMBJ54A-13	DigiKey SMBJ54ADICT-ND		
16	1	D9	603			Green	MMNLS6	Lite-On LTST-C190KGKT	DigiKey 160-1435-1-ND	LED GREEN CLEAR 0603 SMD	
17	1	D10	15V			600W	SMBJ15A	DiodesInc SMBJ15A-13	DigiKey SMBJ15ADICT-ND		
18	1	D11	MBRM5100			100V/5A	Schottky	MBRM5100	Diodes Inc MBRM5100-13	DigiKey MBRM5100DICT-ND	
19	1	D12	5.1V			600W	MAZ8051	MAZ8000	Panasonic MAZ80510ML	DigiKey MAZ80510MLCT-ND	DIODE ZENER 5.1V 150MW S-MINI 2P
20	18	FB1,FB2,FB3,FB4,FB5,FB6, FB7,FB8,FB9,FB10,FB11, FB12,FB13,FB14,FB15,FB16, FB17,FB25	600 ohms @ 100MHz			300 mA	603 Fuse 1/4 x 1-1/4	Steward HZ0603C601R	DigiKey 240-1143-1-ND		
21	8	FB18,FB19,FB20,FB21,FB22, FB23,FB24,FB26	56 ohms @ 100MHz		10A		1612 8RHB	Steward DM1612X560R	DigiKey 240-1128-1-ND		
22	3	FC1,FC2,FC3	CLIPS			1/4 x 1-1/4	MMNLS8	Bussmann BK/1A1907-05	DigiKey 283-2342-ND	PC Mount, Beryllium Copper, Silver Plate, 2 ea	
23	2	F1,F3	10A		250V	MDA TIME DELAY	DUMMY	Bussmann BK/MDA-10	DigiKey 283-2308-ND	FUSE 10A 250V T-LAG CRM MDA	
24	1	F2	15A		250V	MDA TIME DELAY	DUMMY	Bussmann BK/MDA-15	DigiKey 283-2310-ND	FUSE 15A 250V T-LAG CRM MDA	
25	2	JMP2,JMP1	PWB Jumper				MMNLS4				
26	2	J1,J3	MMNL4J				AMP 770968	AMP 770968-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 4 Circuit, Duplex Plated	
27	2	J2,J4	MMNL6J				5KP TVS	AMP 770969-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 6 Circuit, Duplex Plated	
28	1	L1	1mH		0.19A	P1167	P1167	Pulse Eng P1167.105T	Mouser 673-P1167.105T	Shielded Drum Core	
29	2	P3,P1	MMNL4P				DUMMY	AMP 172167-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, Dual Row, 4 Circuit	
30	2	P2,P4	MMNL6P				DUMMY	AMP 172168-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, 6 Circuit	
31	1	P5	DIN 42+6			DIN41612 TYPE M		ERNI 593 815		42+6, ABC Loaded, Class 207	
32	4	R1,R2,R12,R15	0.005		1%	1W	WSK	Vishay Dale WSK2512-0.005-1%	Mouser 71-WSK2512-0.005/R	4-Terminal Resistor	
33	8	R3,R4,R5,R6,R11,R13,R14, R16	180		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
34	2	R9,R7	523k		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
35	2	R8,R10	10.2k		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
36	4	R17,R18,R19,R20	36k		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
37	4	R21,R23,R24,R25	220k		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
38	2	R22,R35	10k		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
39	4	R26,R27,R28,R29	110k		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
40	1	R30	33k		5%	063W	745C	CTS 745C101333JCTR	DigiKey 745C101333JCT-ND	DIP Network, Bussed	
41	1	R31	3.6k		5%	1W	SM/R 2512	KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series		
42	2	R32,R40	100		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
43	1	R33	31.6k		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
44	1	R34	162k		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
45	1	R36	13.7k		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
46	1	R37	102k		1%	1/8 W	SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
47	1	R38	0		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
48	1	R39	24.0k		0.10%	1/10 W	SM/R 0805	Panasonic ERA-6YEB243V	DigiKey P24KZCT-ND		
49	1	R41	330		5%	1/8 W	SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
50	1	R42	1.00k		0.10%	1/10 W	SM/R 0805	Panasonic ERA-6YEB102V	DigiKey P1.0KZCT-ND		
51	30	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, TP27,TP28,TP29,TP30	T POINT S					Keystone 5015	DigiKey 5015KCT-ND	SMT Test Point .040"ii	
52	6	U1,U2,U3,U5,U7,U8	LTC2433			0-70C		Linear Tech LTC2433-1CMS		16 Bit SigmaDelta A/D	
53	3	U4,U6,U19	OP196				OP196	Analog Devices OP196GS		Micropower Op Amp	
54	1	U9	AT25040		2.1 MHz			Atmel AT25040N-10SI-2.7	DigiKey AT25040N-10SI-2.7-ND	Serial SPI EEPROM, 512 x 8, 2.7V, Narrow SOIC-8	
55	1	U10	74HC14/SO					TI SN74HC14DR	DigiKey 296-1194-1-ND	IC HEX SCHMITT-TRIG INV 14-SOIC	
56	1	U10	74HC14/SO								
57	1	U11	74HC589/SO					Fairchild MM74HC589M			
58	1	U12	74HC595					Fairchild MM74HC595M	DigiKey MM74HC595M-ND	8 Bit Shift Register	
59	2	U13,U15	NC7S14				NC7S14	Fairchild NC7S14M5X	DigiKey NC7S14M5CT-ND	Schmitt Inverter	
60	1	U14	ADuM1401		1 MBPS Max			Analog Devices ADuM1401ARW		Digital Isolator	
61	1	U16	MAX5033D				MAX5033	Maxim MAX5033DUSA		Stepdown DC-DC, Adjustable Output	
62	1	U17	LTC1798-2.5					Linear Tech LTC1798CS8-2.5		Micropower Reference	
63	1	U18	LT3010				LT3010	Linear Tech LT3010EMS8E		LDO Regulator	