

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	2	C11,C12	MMNLContact			20-16AWG	DUMMY	AMP 171637-3		Contact, Mini Univeral Mate-N-Lok, 20-16AWG, Duplex Plated	
2	2	C14,C13	DIN Power Contact				DUMMY	ERNI 594 169		Right Angle, 4 Leg, 20 or 40 amp rating	
3	12	C1,C5,C7,C9,C12,C13,C17, C18,C22,C24,C29,C30	0.1	10%		X7R	SM/C 0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R		
4	2	C28,C2	.022	10%	Rating	X7R	SM/C 0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R		
5	5	C3,C6,C8,C11,C15	10uF	10%	16V	X5R	SM/C 1210	Kemet C1210C106K4PACTU	DigiKey 399-3150-1-ND		
6	1	C4	1uF	10%	50V	X7R	SM/C 1210	Kemet C1210C105K4RACTU	DigiKey 399-3076-1-ND		
7	2	C14,C10	.01		630V	X7R	SM/C 1206	Panasonic ECJ-3FB2J103K	DigiKey PCC2292CT-ND		
8	2	C27,C16	33uF		6.3V	293D	SM/CT 3216 12	Vishay/Sprague 293D336X96R3B2T	Garrett 293D Lab Kit		
9	1	C19	33uF		63V	FK	PANASONIC FK SIZE-F	Panasonic EEV-FK1J330P	DigiKey PCE3481CT-ND	Aluminum Electrolytic, ESR 0.65 ohm	
10	2	C20,C25	0.1	10%	Rating	X7R	SM/C 0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R		
11	1	C21	180pF	5%		NPO	SM/C 0805	Vishay Vitramon VJ0805A	Garrett Lab Kit NPO VJ0805		
12	1	C23	22uF		16V	T494D	SM/CT 7343 12	Kemet T494D226K016AS	DigiKey 399-1782-1-ND	Tantalum, ESR 0.25 ohm	
13	1	C26	1uF		50V	X7R	SM/C 1210	Kemet C1210C105K4RACTU	DigiKey 399-3076-1-ND		
14	1	D1	BAS19				BAS19	Diodes Inc BAS19-7	DigiKey BAS19DICT-ND		
15	5	D2,D4,D5,D6,D8	70DW-04				BAS70_SOT363	Diodes Inc BAS70DW-04-7	DigiKey BAS70DW-04DICT-ND		
16	1	D3	7.5V		150mW	MAZ8075	MAZ8000	Panasonic MAZ80750ML	DigiKey MAZ80750MLCT-ND		
17	1	D7	60V		5kW	5KP60A	5KP	Vishay General Semi 5KP60A	Newark 28H8280		
18	1	D9	54V		600W	SMBJ54A	SMBJ	DiodesInc SMBJ54A-13	DigiKey SMBJ54ADICT-ND		
19	1	D10	0603			Green	TLGV1020_TOSHIBA	Lite-On LTST-C190KGKT	DigiKey 160-1435-1-ND	LED GREEN CLEAR 0603 SMD	
20	1	D11	15V		600W	SMBJ15A	SMBJ	DiodesInc SMBJ15A-13	DigiKey SMBJ15ADICT-ND		
21	1	D12	MBRM5100		100V/5A	Schottky	MBRM5100	Diodes Inc MBRM5100-13	DigiKey MBRM5100DICT-ND		
22	1	D13	5.1V		600W	MAZ8051		Panasonic MAZ80510ML	DigiKey MAZ80510MLCT-ND	DIODE ZENER 5.1V 150MW S-MINI 2P	
23	8	FB1,FB2,FB3,FB4,FB21, FB22,FB23,FB24	56 ohms @ 100MHz		10A	1612	DM1612X560R-00	Steward DM1612X560R	DigiKey 240-1128-1-ND		
24	16	FB5,FB6,FB7,FB8,FB9,FB10, FB11,FB12,FB13,FB14,FB15, FB16,FB17,FB18,FB19,FB20	600 ohms @ 100MHz		300 mA	0603	HZ0603C601R-00	Steward HZ0603C601R	DigiKey 240-1143-1-ND		
25	3	FC1,FC2,FC3	CLIPS			1/4 x 1-1/4	CONVGF_FUSECLIPS	Bussmann BK/1A1907-05	DigiKey 283-2342-ND	PC Mount, Beryllium Copper, Silver Plate, 2 ea	
26	2	F1,F3	10A		250V	MDA TIME DELAY	DUMMY	Bussmann BK/MDA-10	DigiKey 283-2308-ND	FUSE 10A 250V T-LAG CRM MDA	
27	1	F2	15A		250V	MDA TIME DELAY	DUMMY	Bussmann BK/MDA-15	DigiKey 283-2310-ND	FUSE 15A 250V T-LAG CRM MDA	
28	2	JMP2,JMP1	PWB Jumper				JMPR 2				
29	1	J1	MMNL6J				AMP 770969	AMP 770969-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 6 Circuit, Duplex Plated	
30	1	J2	MMNL8J				AMP 770970	AMP 770970-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 8 Circuit, Duplex Plated	
31	1	L1	1mH		0.19A	P1167	P1167	Pulse Eng P1167.105T	Mouser 673-P1167.105T	Shielded Drum Core	
32	1	P1	MMNL6P				DUMMY	AMP 172168-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, 6 Circuit	
33	1	P2	MMNL8P				DUMMY	AMP 770579-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, 8 Circuit	
34	1	P3	DIN 42+6			DIN41612 TYPE M	ERNI 42+6	ERNI 593 815		42+6, ABC Loaded, Class 207	
35	1	Q1	IRF1010EL		60V		IRF1010	Intl Rect IRF1010EL	DigiKey IRF1010EL-ND	Hexfet N-CH 60V 84A TO-262	
36	2	Q3,Q2	DN3545		450V	N-Ch Depletion	DN3545N3	Supertex DN3545N3	Mouser 689-DN3545N3		
37	1	R2	1k	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
38	8	R3,R7,R8,R9,R10,R13,R14, R15	360	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
39	1	R4	1M	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
40	4	R5,R6,R11,R12	.005	1%	1W	WSK	WSK2512	Vishay Dale WSK2512-0.005-1%	Mouser 71-WSK2512-0.005/R	4-Terminal Resistor	
41	1	R16	523k	1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
42	1	R17	10.2k	1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
43	2	R18,R23	249	1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
44	2	R19,R21	2.7k	5%	1W		SM/R 2512	KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series		
45	2	R20,R22	2.7k	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
46	2	R29,R24	10k	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
47	1	R25	33k	5%	.063W	745C	CTS 745	CTS 745C101333JCT-ND	DigiKey 745C101333JCT-ND	DIP Network, Bussed	
48	2	R34,R26	100	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
49	1	R27	64.9k	1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
50	1	R28	162k	1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
51	1	R30	13.7k	1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
52	1	R31	102k	1%	1/8 W		SM/R 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
53	1	R32	0	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
54	1	R33	24.0k	0.1%	1/10 W		SM/R 0805	Panasonic ERA-6YEB243V	DigiKey P24KZCT-ND		
55	1	R35	330	5%	1/8 W		SM/R 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
56	1	R36	1.00k	0.1%	1/10 W		SM/R 0805	Panasonic ERA-6YEB102V	DigiKey P1.0KZCT-ND		
57	28	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	T POINT S				TP_5015	Keystone 5015	DigiKey 5015KCT-ND	SMT Test Point .040"ii	
58	5	U1,U2,U3,U5,U6	LTC2433		0-70C		LTC2433-1	Linear Tech LTC2433-1CMS		16 Bit SigmaDelta A/D	
59	2	U4,U15	OP196				OP196	Analog Devices OP196GS		Micropower Op Amp	
60	1	U7	AT25040		2.1 MHz		AT25010_8S1 JEDEC SOIC	Atmel AT25040N-10SI-2.7	DigiKey AT25040N-10SI-2.7-ND	Serial SPI EEPROM, 512 x 8, 2.7V, Narrow SOIC-8	
61	1	U8	74HC595				MM74HC595	Fairchild MM74HC595M-ND	DigiKey MM74HC595M-ND	8 Bit Shift Register	
62	2	U9,U11	NC7S14				NC7S14	Fairchild NC7S14M5X	DigiKey NC7S14M5CT-ND	Schmitt Inverter	

63	1	U10	ADuM1401		1 MBPS Max		ADUM1401	Analog Devices ADuM1401ARW		Digital Isolator	
64	1	U12	MAX5033D				MAX5033	Maxim MAX5033DUSA		Stepdown DC-DC, Adjustable Output	
65	1	U13	LTC1798-2.5				LT1798	Linear Tech LTC1798CS8-2.5		Micropower Reference	
66	1	U14	LT3010				LT3010	Linear Tech LT3010EMS8E		LDO Regulator	