

MBARI
7700 Sandholdt Rd
Moss Landing CA 95039
831-775-1730
www.mbari.org

Item	Quantity	Reference	Value	Tolerance	Rating	Type	PCB Footprint	Manufacturer Number	Distributor Number	Description
1	2	C11,C12	DIN Power Contact				DUMMY	ERNI 594 169		Right Angle, 4 Leg, 20 or 40 amp rating
2	4	C1,C2,C3,C4	10uF		10%	16V	X5R	CAPC 1210	Kemet C1210C106K4PACTU	DigiKey 399-3150-1-ND
3	27	C5,C6,C7,C8,C9,C10,C11,C12,C13,C16,C17,C18,C19,C21,C23,C24,C25,C26,C27,C28,C32,C34,C35,C36,C43,C46,C47	1uF			50V	X7R	CAPC 1210	Kemet C1210C105K4RACTU	DigiKey 399-3076-1-ND
4	16	C14,C15,C20,C22,C29,C30,C31,C33,C37,C39,C40,C48,C49,C50,C51,C52		0.1	10%		X7R	CAPC 0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R
5	1	C38	33uF			6.3V	293D	CAPMP6032N	Vishay/Sprague 293D336X96R3C2	Garrett 293D Lab Kit
6	1	C41	33uF			63V	FK	CAPAE85W107HN	Panasonic EEV-FK1J330P	DigiKey PCE3481CT-ND
7	2	C42,C44		0.1	10%	Rating	X7R	CAPC 0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R
8	1	C45	68uF			16V	T495D	CAPMP7343N	Kemet T495D686K016AS	DigiKey 399-3200-1-ND
9	4	D1,D2,D3,D4	20V			600W	SMBJ20A	DIOM5436N	DiodesInc SMBJ20A-13	DigiKey SMBJ20ADICT-ND
10	8	D5,D6,D7,D8,D9,D12,D16,D20	70DW-04			70V/70mA		SOT65P210-6N	Diodes Inc BAS70DW-04-7	DigiKey BAS70DW-04DICT-ND
11	5	D10,D15,D17,D19,D24		805		Green		LEDC2012N	Lite-On LTST-C170KGKT	DigiKey 180-1414-1-ND
12	5	D11,D13,D14,D18,D25	5.1V			600W	MAZ8051	DIOM2512N	Panasonic MAZ80510ML	DigiKey MAZ80510MLCT-ND
13	1	D21	54V			600W	SMBJ54A	DIOM5436N	DiodesInc SMBJ54A-13	DigiKey SMBJ54ADICT-ND
14	1	D22	MBRM5100			100V/5A	Schottky	SOT92P651-3N	Diodes Inc MBRM5100-13	DigiKey MBRM5100DICT-ND
15	1	D23	5V			600W	SMBJ5.0A	DIOM5436N	DiodesInc SMBJ5.0A-13	SMBJ5.0ADICT-ND
16	30	FB1,FB2,FB3,FB4,FB5,FB6,FB7,FB8,FB9,FB10,FB11,FB12,FB13,FB14,FB15,FB16,FB17,FB18,FB19,FB20,FB21,FB22,FB23,FB24,FB25,FB26,FB27,FB28,FB29,FB32	600 ohms @ 100MHz			300 mA		603FB_0603	Steward HZ0603C601R	DigiKey 240-1143-1-ND
17	22	JMP1,JMP2,JMP3,JMP4,JMP5,JMP6,JMP7,JMP8,JMP9,JMP10,JMP11,JMP12,JMP13,JMP14,JMP15,JMP16,JMP17,JMP18,JMP19,JMP20,JMP21,JMP22	PWB Jumper				JUMP_100			
18	2	J1,J2	MMNL&J				770970_8	AMP 770970-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 8 Circuit, Duplex Plated
19	1	L1	330uH			0.86A	DS5022P	IND_DS5022P-334	Coilcraft DS5022P-334	Coilcraft direct (website)
20	1	P1	DIN 60+4				DIN41612_TYPE M	ERNI 60+4 REV1	ERNI 593 812	60+4, ABC loaded
21	1	Q1	DN3545			450V	N-Ch Depletion	TO92/R050_REV1	Supertex DN3545N3	Mouser 689-DN3545N3
22	3	Q2,Q3,Q4	DN3545			450V	N-Ch Depletion	TO92/R050	Supertex DN3545N3	Mouser 689-DN3545N3
23	8	R1,R3,R5,R7,R24,R29,R32,R36		0	1%	1/8 W		RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
24	4	R2,R4,R6,R8	open			1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
25	4	R9,R11,R12,R13	30.1k			1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
26	4	R10,R14,R15,R16	24.9k			1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
27	4	R17,R18,R19,R20	27.4k			1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
28	4	R21,R27,R30,R33	2.49k			1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
29	4	R22,R25,R31,R34	4.99k			1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
30	4	R23,R26,R28,R35		66.5		1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
31	4	R37,R38,R39,R40		62		5%	1/8 W	RESC 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
32	5	R41,R42,R43,R44,R57		330		5%	1/8 W	RESC 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
33	4	R45,R46,R47,R48		0		5%	1/8 W	RESC 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
34	2	R49,R50	33k			5%,063W	745C	RESCAF_745C101-10N	CTS 745C101333JCTR	DigiKey 745C101333JCT-ND
35	1	R51	10k			5%	1/8 W	RESC 0805	KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A
36	1	R52		1		1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
37	2	R53,R54		499		1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
38	1	R55	31.6k			1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
39	1	R56	10.2k			1%	1/8 W	RESC 0805	KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A
40	8	TP1,TP2,TP3,TP4,TP5,TP6,	T POINT S				TP_5015	Keystone 5015	DigiKey 5015KCT-ND	SMT Test Point .040"ii

		TP7,TP8								
41	4	T1,T2,T3,T4	PLT14/5/1.5/S-3E6				E14/3.5/5-CORE SLOT_4/4_CO	Philips E14/3.5/5/R-3E6 plus PLT14/5/1.5/S-3E6	Eastern Components Inc	Planar Ferrite E Core plus Plate
42	9	U1,U2,U3,U4,U5,U6,U7,U8,	LTC2433		0-70C		TSSOP50P490-10N	Linear Tech LTC2433-1CMS		16 Bit SigmaDelta A/D
		U31								
43	5	U9,U10,U11,U12,U30	LT1460S3	0.20%	0-70C		SOT95P237-3N 123	Linear Tech LT1460HCS3-3.3	Linear website	3.3V Reference/Regulator
44	5	U13,U14,U15,U16,U27	ADuM1401		1 MBPS Max		SOIC127P1032-16N	Analog Devices ADuM1401ARW		Digital Isolator
45	4	U17,U18,U19,U20	MAX253		0-70C		SOIC127P600-8N	Maxim MAX253CSA	DigiKey MAX253CSA-ND	IC XFRMR DRIVER RS485 8-SOIC
46	3	U21,U23,U25	74HC595				SOIC127P599-16N	Fairchild MM74HC595M	DigiKey MM74HC595M-ND	8 Bit Shift Register
47	1	U22	74HC00/SO				SOIC127P600-14N	Fairchild MM74HC00M	DigiKey MM74HC00M-ND	IC GATE NAND QUAD 2INPUT 14-SOIC
48	1	U24	AT25040		2.1 MHz		SOIC127P600-8N	Atmel AT25040N-10SI-2.7	DigiKey AT25040N-10SI-2.7-ND	Serial SPI EEPROM, 512 x 8, 2.7V, Narrow SOIC-8
49	2	U26,U28	NC7S14				SOT95P280-5N	Fairchild NC7S14M5X	DigiKey NC7S14M5CT-ND	Schmitt Inverter
50	1	U29	MAX5033D				SOIC127P600-8N	Maxim MAX5033DUSA		Stepdown DC-DC, Adjustable Output