

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

Order Comments 25 Jan 04... ecm

Item	Quantity	Reference	Value	Tolerance	Rating	Type	PCB Footprint	Manufacturer Number	Distributor Number	Description	Comment
1	4	C11,C12,C15,C16	MMNLContact			20-16AWG	DUMMY	AMP 171637-3		Contact, Mini Universal 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	Should be on P2 order check with Dick Littlefield
3	2	C2,C1	820uF		63V	FC	18mm dia x 25mm h	Panasonic EEU-FC1J821L	DigiKey P11277-ND	Aluminum Electrolytic	order 100 per Order Notes, Item 19
4	4	C3,C12,C14,C18	10uF		16V	X5R	1210	Kemet C1210C106K4PACTU	DigiKey 399-3150-1-ND		Should be on P2 order
5	2	C24,C4	180pF		5%	NPO	0805	Vishay Vitramon VJ0805A	Garrett Lab Kit NPO VJ0805		Should be on P2 order
6	1	C5	3.3uF		20V	293D	EIA 3216	Vishay/Sprague 293D335X9020A2	Garrett		
7	13	C6,C7,C9,C10,C11,C13,C15,C16,C17,C20,C21,C42,C43	0.1		10%	X7R	0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R		Should be on P2 order
8	1	C8	.022		10%	Rating	X7R	0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R	
9	1	C19	33uF		6.3V	293D		Vishay/Sprague 293D336X96R3B2T	Garrett 293D Lab Kit		Should be on P2 order
10	1	C22	33uF		63V	FK		Panasonic EEV-FK1J330P	DigiKey PCE3481CT-ND	Aluminum Electrolytic, ESR 0.65 ohm	order 50 per Order Notes, item 20
11	2	C23,C27	0.1		10%	Rating	X7R	0805	Vishay Vitramon VJ0805Y	Garrett Lab Kit VJ0805 X7R	
12	1	C25	22uF		16V	T494D	7343-31	Kemet T494D226K016AS	DigiKey 399-1782-1-ND	Tantalum, ESR 0.25 ohm	order 50 per Order Notes, item 20
13	1	C26	1uF		10%	50V	X7R	Kemet C1210C105K4RACTU	DigiKey 399-3076-1-ND		
14	1	C28	33uF		6.3V	293D	EIA 6032	Vishay/Sprague 293D336X96R3C2	Garrett 293D Lab Kit		
15	2	D1,D2	7.5V		150mW	MAZ8075	S-Mini 2P	Panasonic MAZ80750ML	DigiKey MAZ80750MLCT-ND		
16	2	D8,D3	TLGV1020			Yel/Grn		Toshiba TLGV1020	Marktech		should be on P2 order
17	2	D5,D4	70DW-04				SOT-363	Diodes Inc BAS70DW-04-7	DigiKey BAS70DW-04DICT-ND		should be on P2 order
18	1	D6	60V		5kW	5KP60A	P600	Vishay General Semi 5KP60A	Newark 28H8280		should be on P2 order
19	1	D7	54V		600W	SMBJ54A	SMB	DiodesInc SMBJ54A-13	DigiKey SMBJ54ADICT-ND		order 50 per Order Notes, item 21
20	1	D9	MBRM5100		100V/5A	Schottky	Powermite	Diodes Inc MBRM5100-13	DigiKey MBRM5100DICT-ND		order 50 per Order Notes, item 21
21	13	FB1,FB2,FB3,FB8,FB9,FB10,FB11,FB12,FB13,FB14,FB15,FB16,FB17	600 ohms @ 100MHz		300 mA	0603		Steward HZ0603C601R	DigiKey 240-1143-1-ND		order 50 per Order Notes, item 22 should be on P2 order
22	4	FB4,FB5,FB6,FB7	56 ohms @ 100MHz		10A	1612		Steward DM1612X560R	DigiKey 240-1128-1-ND		we need to talk!
23	2	FC1,FC2	CLIPS			1/4 x 1-1/4		Bussmann BK/1A1907-05	DigiKey 283-2342-ND	PC Mount, Beryllium Copper, Silver Plate, 2 ea	order 300 clips per Order Notes, item 24
24	2	F1,F2	5A		250V	3AB TIME DELAY		Littelfuse 0326005.H	DigiKey F479-ND		order 50, plus other fuse values per Order Notes item 25
25	3	JMP1,JMP2,JMP3	PWB Jumper								
26	1	J_12V_3	MMNL8J					AMP 770970-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 8 Circuit, Duplex Plated	Should be on P2 order
27	1	J_400V_3	MMNL4J					AMP 770968-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 4 Circuit, Duplex Plated	Should be on P2 order
28	2	J1,J2	MMNL6J					AMP 770969-2		Header, Mini Universal Mate-N-Lok, Dual Row, Right Angle, 6 Circuit, Duplex Plated	Should be on P2 order
29	1	L1	1mH		0.19A	P1167	0.287" sq	Pulse Eng P1167.105T	Mouser 673-P1167.105T	Shielded Drum Core	Should be on P2 order
30	1	P_12V_1	MMNL8P					AMP 770579-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, 8 Circuit	Should be on P2 order
31	1	P_400V_1	MMNL4P					AMP 172167-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, 4 Circuit	Should be on P2 order
32	1	P2	DIN 42+6			DIN41612_TYPE_M		ERNI 593 815		42+6, ABC Loaded, Class 207	used on DPA... see Dick Littlefield
33	2	P3,P4	MMNL6P					AMP 172168-1		Housing, Mini Universal Mate-N-Lok, Free Hanging, 6 Circuit	Should be on P2 order
34	2	Q2,Q1	DN3545		450V	N-Ch Depletion	TO_92	Supertex DN3545N3	Mouser 689-DN3545N3		Should be on P2 order
35	1	Q3	FDV301N		25V		SOT-23	Fairchild FDV301N	DigiKey FDV301NCT-ND	MOSFET, N-ch, Logic Level	used on SideARM
36	2	R1,R6	4.7k	5%	1/8 W			KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
37	1	R2	1.5k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
38	1	R3	866k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
39	1	R4	11.8k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
40	1	R5	1.00k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
41	2	R39,R7	102k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
42	1	R8	1.37k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
43	3	R9,R41,R42	3.3k	5%	1/8 W			KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
44	5	R10,R14,R19,R21,R44	390	5%	1/8 W			KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
45	2	R15,R11	160k	5%	1W			KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series		
46	1	R12	0	5%	1/8 W			KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
47	3	R13,R33,R43	10k	5%	1/8 W			KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
48	1	R16	24.0k	0.1%	1/10 W			Panasonic ERA-6YEB243V	DigiKey P24KZCT-ND		order 50 per Order Notes item 26
49	2	R35,R17	100	5%	1/8 W			KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
50	1	R18	1.00k	0.1%	1/10 W			Panasonic ERA-6YEB102V	DigiKey P1.0KZCT-ND		order 50 per Order Notes item 26
51	1	R20	390k	5%	1W			KOA RK73B3A	Garrett Lab Kit 2512 5% RK73B3A Series		
52	4	R22,R25,R27,R28	200k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
53	4	R23,R26,R30,R32	180	5%	1/8 W			KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
54	2	R31,R24	.005	1%	1W	WSK	2512	Vishay Dale WSK2512-0.005-1%	Mouser 71-WSK2512-0.005/R	4-Terminal Resistor	order 200 per Order Notes item 27
55	1	R29	2.00k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
56	1	R34	33k	5%	.063W	745C	CTS_745	CTS 745C101333JTR	DigiKey 745C101333JCT-ND	DIP Network, Bussed	
57	1	R36	133k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
58	1	R37	162k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
59	1	R38	13.7k	1%	1/8 W			KOA Speer RK73H2A	Garrett Lab Kit 0805 1% RK73H2A		
60	1	R40	330	5%	1/8 W			KOA RK73B2A	Garrett Lab Kit 0805 5% RK73B2A		
61	27	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	T POINT S					Keystone 5015	DigiKey 5015KCT-ND	SMT Test Point .040"ii	Should be on P2 order
62	2	U1,U16	74HC595				SO-16	Fairchild MM74HC595M	DigiKey MM74HC595M-ND	8 Bit Shift Register	should be on p2 order
63	2	U11,U2	AD202		1 kV		SIP	Analog Devices AD202JY		Isolation Amplifier	should be on p2 order
64	2	U3,U21	LT3010				MS8 MSOP	Linear Tech LT3010EMS8E		LDO Regulator	should be on p2 order
65	1	U4	LTC1798-2.5				SO-8	Linear Tech LTC1798CS8-2.5		Micropower Reference	should be on p2 order
66	5	U5,U6,U8,U9,U22	PS7160L-1A		600V		SM J-Lead DIP-6	NEC PS7160L-1A	DigiKey PS7160L-1A-ND	PhotoMOS Relay	should be on p2 order
67	1	U7	OP196				Narrow SO-8	Analog Devices OP196GS		Micropower Op Amp	order 50 per Order Notes item 28
68	4	U10,U12,U13,U14	LTC2433		0-70C		MS10 MSOP	Linear Tech LTC2433-1CMS		16 Bit SigmaDelta A/D	should be on p2 order
69	1	U15	AT25040		2.1 MHz		JEDEC SOIC-8	Atmel AT25040N-10SI-2.7			should be on p2 order (Order Notes item 16)
		DigiKey AT25040N-10SI-2.7	Serial SPI EEPROM, 512 x 8, 2.7V, Narrow SOIC-8								
70	2	U17,U19	NC7S14				SOT-23, JEDEC MO-1	Fairchild NC7S14M5X	DigiKey NC7S14M5CT-ND	Schmitt Inverter	should be on P2 order
71	1	U18	ADUM1401		1 MBPS Max		Wide SO-16	Analog Devices ADUM1401ARW		Digital Isolator	should be on P2 order
72	1	U20	MAX5033D				Narrow SO-8	Maxim MAX5033DUSA		Stepdown DC-DC, Adjustable Output	50 on order (ecm)

73	1	U23	LTC1726-2.5			LT1726	Linear Tech LTC1726ES8-2.5	Triple Supply Monitor and Watchdog Timer	order 10 more (was on P2 order but only for P2 board)
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