

Item Number	Quantity	Part Reference	Value	TOLERANCE	RATING	TYPE	MFG	MFG PN	VENDOR	PURCHASE PN	PCB Footprint	Part Number
1	1	C1	0.01uf	10%		X7R ceramic	Panasonic	ECU-V1H103KBW	Digi Key	PCC103BCT-ND	1206	38
2	9	C2 C3 C6 C7 C10 C11 C12 C13 C14	0.1uf			X7R ceramic	Panasonic	ECU-V1H104KBW	Digi Key	PCC104BCT-ND	1206	2
3	3	C4 C8 C9	0.22uf			Film SMD	Panasonic	ECW-U1C224JB9	Digi Key	PCF1062CT-ND	_1913	4
4	1	C5	15uf			Tanatalum SMD	Panasonic	ECS-T1CC156R		PCS3156CT-ND	_1913	3
5	2	C15 C16	OMIT			X7R ceramic	Panasonic	ECU-V1H104KBW	Digi Key	PCC104BCT-ND	1206	39
6	2	D1 D2	914				Zetex	FMMD914	Digi Key	FMMD914CT-ND	SOT23	6
7	2	D3 D5	ES1BDICT		1A	Ultrafast	Diodes Inc	ES1B		ES1BDICT-ND	_SMREC	1
8	1	D4	15V	16.7V min.	600W pk.	Transient suppression	General Instrument	SMBJ15A	Digi Key	SMBJ15AGICT-ND	SM/DO214AA	30
9	1	J1	HEADER 5				Generic	App. specific / TBD			HDRBLK/100RC/5	7
10	4	J2 J3 J4 J5	HEADER 4				Generic	App. specific / TBD			HDRBLK/100RC/4	8
11	1	LOGO1	MBARI-LOGO									
12	1	Q1	NDT2955		2.5A		National Semi	NDT2955	Digi Key	NDT2955CT	TO261AA/SOT-223	11
13	4	Q2 Q4 Q5 Q6	IRFR120N		9A		International Rectifier	IRFR120N	Digi Key	IRFR120N-ND	TO-252AA/DPAK	13
14	1	Q3	VN10LFCT				Zetex	VN10LF	Digi Key	VN10LFCT-ND	SOT23	12
15	7	R1 R2 R11 R19 R21 R24 R25	10K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	16
16	2	R3 R6	1K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	21
17	1	R4	9.09K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	22
18	1	R5	5K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	23
19	5	R7 R8 R12 R20 R22	100K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	14
20	1	R9	10K	10%	.25W	Cermet, multi turn	Bourns	3224W-1-103D	Digi Key	3224W-103ECT-ND	VR/BOU/3224J	37
21	2	R10 R16	1M	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	19
22	4	R13 R18 R23 R26	10R	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	17
23	1	R14	196K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	18
24	1	R15	28.7K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	15
25	1	R17	200K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	20
26	1	R27	51.1R	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	27
27	1	R28	0.1R	1%	2W	Metal-Strip WSR-2	Dale / Vishay	WSR-2 0.1R		Samples, Bob Mills 985-5733	_385260	24
28	1	R29	200R	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	28
29	1	R30	5.62K	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	26
30	1	R31	909R	1%	.125W	Thick Film SMD	Panasonic / Generic	ERJ-8ENFxxxx	DigiKey	PxxxxFCT-ND	1206	25
31	5	TP1 TP2 TP3 TP4 TP5	TESTPOINT								_TESTPT	29
32	1	U1	LT1013DS8				Linear Tech	LT1013DS8	Digi Key	LT1013DS8-ND	SO-8	35
33	1	U2	LM2931CM		100mA		National Semi	LM2931CM	Digi Key	LM2931CM-ND	SO-8	32
34	1	U3	74HC4049				Harris / Generic	CD74HC4049M	???	xx74HC4049xx	SO-16	33
35	1	U4	LM78L05ACM				National	LM78L05ACM	Digi Key	LM78L05ACM	SO-8	31
36	1	U5	HIP4080AIB				Harris	HIP4080AIB	???	HIP4080AIB	SOG.050/20/MT.420X. 500	34
37	1	U6	LM10CWM				National / Generic	LM10CWM	Digi Key	LM10CWM-ND	SOG.050/14/MT.420X. 350	36
38	1	W1	PADS2				none	none	none	none	_PADS2	10
39	6	W2 W3 W4 W5 W6 W7	PADS3				none	none	none	none	_PADS3	9