

DIG SRT PARTS LIST**A. RECEIVER - BOARD ONLY**

<u>Item</u>	<u>Value/ description</u>	<u>Qty</u>	<u>Location / PCB part reference #</u>	<u>Manufacturer</u>	<u>Manufacturer part #</u>	<u>Distributor</u>	<u>Dist. Part #</u>	<u>Unit Price</u>	<u>Subtotal</u>
<u>Capacitors</u>									
1	10pf	3	C1 C4 C303	Panasonic-ECG	ECU-V1H100DCM	DigiKey	PCC100CCT-ND	0.09	0.27
2	12pf	2	C600 C601	Panasonic-ECG	ECU-V1H120JCM	DigiKey	PCC120CCT-ND	0.10	0.20
3	20pf	1	C604	Panasonic-ECG	ECU-V1H200JCM	DigiKey	PCC200CCT-ND	0.12	0.12
4	33pf	2	C3 C603	Panasonic-ECG	ECU-V1H330JCM	DigiKey	PCC330CCT-ND	0.10	0.20
5	47pf	1	C302	Panasonic-ECG	ECU-V1H470JCM	DigiKey	PCC470CCT-ND	0.14	0.14
6	68pf	1	C107	Panasonic-ECG	ECU-V1H680JCM	DigiKey	PCC680CCT-ND	0.14	0.14
7	100pf	3	C5 C605 C613	Panasonic-ECG	ECU-V1H101JCH	DigiKey	PCC101CCT-ND	0.11	0.33
8	470pf	1	C106	Panasonic-ECG	ECJ-3YC2D471J	DigiKey	PCC2007CT-ND	0.57	0.57
9	1000 pf	1	C607	Panasonic-ECG	ECU-V1H102JCH	Digikey	PCC102CCT-ND	0.16	0.16
10	10000 pf	8	C2, C104, C105, C400 C401, C403, C505 C609	Panasonic-ECG	ECU-V1H103KBM	DigiKey	PCC103BCT-ND	0.12	0.96
11	22000 pf	1	C304	Panasonic-ECG	ECU-V1H223KBM	DigiKey	PCC223BCT-ND	0.15	0.15
12	.1 uf	5	C206, C402, C500, C608, C610	Panasonic-ECG	ECU-V1H104KBW	Digikey	PCC104BCT-ND	0.28	1.40
13	1 uf ceramic	2	C504, C606	Panasonic-ECG	ECJ-3YB1E105K	Digikey	PCC1893CT-ND	0.46	0.92
14	2.2 uf electrolytic	3	C6, C502, C503	Panasonic-ECG	ECS-H1AY225R	Digikey	PCT2225CT-ND	0.47	1.41
15	10 uf ceramic	4	C404, C501, C506 C507	Panasonic-ECG	ECJ-3YB0J106K	Digikey	PCC1940CT-ND	1.16	4.64
16	10 uf electrolytic	10	C108, C109, C200 C201, C202, C203 C204, C305, C602 C612	Panasonic-ECG	ECS-T1ED106R	DigiKey	PCS5106CT-ND	0.81	8.10

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17	47 uf	1	C611	Panasonic-ECG	ECS-T1AD476R	DigiKey	PCS2476CT-ND	0.89	0.89
18	1-40 pf adjustable	1	C614	Sprague-Goodman	GCL40000	DigiKey	SG1037-ND	0.93	0.93
<u>Connectors</u>									
19	JTAG	1	CN500	Samtec	TSW-101-07-S-D	Sager Electronics	SAMTSW10707SD	0.10	0.10
20	Fconn	2	I/O VIDEO	Cui Stack	BA-1010	DigiKey	CP-1010-ND	0.53	1.06
21	PCB Fconn	1	RFIN	Cui Stack	BA-1210	DigiKey	CP-1210-ND	0.77	0.77
<u>Crystals</u>									
22	8 MHz	1	CR1	Epson Electronics	MA-505-8.00M-C2	DigiKey	SE2504CT-ND	1.56	1.56
<u>Diodes</u>									
23	Schottky	1	D500	Zetrex Inc	ZHCS500TA	DigiKey	ZHCS500CT-ND	0.72	0.72
24	1N4148	1	D501	Diodes Inc	1N4148W-7	DigiKey	1N4148WCT-ND	0.44	0.44
25	10 v zener	1	Z200	Motorola	MMSZ4697T1	Newark	07F9201	0.15	0.15
<u>Filters</u>									
26	RF Filter	10	F1, F2, F3, F4, F5, F6 F7, F8, F10, F11	Panasonic-ECG	ELK-E220FA	DigiKey	P9871CT-ND	0.79	7.90
27	RF Filter	2	F12, F13	Panasonic-ECG	EXC-ECT220MBT	DigiKey	P9833CT-ND	0.16	0.32
<u>Inductors</u>									
28	39nH	1	L1	Panasonic-ECG	ELJ-RF39NJF	DigiKey	PCD1283CT-ND	0.60	0.60
29	10uH	2	L500, L501	Toko America	A920CY-100M=P3	DigiKey	TKS5516CT-ND	3.22	6.44
<u>I.C.'s</u>									
30	comparator	1	U203	Analog Devices	CMP402GS	Newark	52F2158	6.65	6.65
31	power splitter	1	J100	Mini Circuits	JSPQ1875-W	Mini Circuits	JSPQ1875-W	17.95	17.95

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32	VCO	1	JT600	Mini Circuits	JT0S-2000	Mini Circuits	JT0S-2000	24.95	24.95
33	8v LDO reg	1	U200	Toko America	TK11280BMCL	DigiKey	TK11280CT-ND	1.53	1.53
34	5v reg	1	U201	Motorola	MC78M05CDT	Newark	07F7474	0.71	0.71
35	Freq. Syn.	1	LMX600	National Semiconductor	LMX2325TM	DigiKey	LMX2325TM-ND	11.34	11.34
36	Mixer	2	M100 M101	Mini Circuits	MBA-15L	Mini Circuits	MBA-15L	6.95	13.90
37	Hs opamp	5	Q101, Q102, Q103 Q104, Q300	Analog Devices	AD8011AR	Newark	66F1840	4.69	23.45
38	opamp	1	Q601	Analog Devices	OP27GS	Allied	630-8990	3.15	3.15
39	AD9283	1	U400	Analog Devices	AD9283BRS-50	Newark	48F6089	8.62	8.62
40	GC1011A	1	U500	Texas Instruments	GC1011A	Digikey	296-12257-ND	285.00	285.00
41	DSP	1	U501	Motorola	XC56F803BU80				
42	3.3 V STEP DWN REG	1	U502	Linear Tech	LT1616ES6	Linear Tech	LT1616ES6	2.30	2.30
43	<u>PC Board</u>	1			Digital SRT2A			55.00	55.00
	<u>Resistors</u>								
44	10 ohm, 1/8 watt	2	R611 R612	Panasonic-ECG	ERJ-8GEYJ100V	DigiKey	P10ECT-ND	0.08	0.16
45	20 ohm, 1/8 watt	3	R117, R2 R603	Panasonic-ECG	ERJ-8GEYJ200V	DigiKey	P20ECT-ND	0.08	0.24
46	27 ohm, 1/8 watt	3	R102, R401 R110	Panasonic-ECG	ERJ-8GEYJ270V	DigiKey	P27ECT-ND	0.08	0.24
47	51 ohm, 1/8 watt	4	R100, R310, R600 R601	Panasonic-ECG	ERJ-8GEYJ510V	DigiKey	P51ECT-ND	0.08	0.32
48	82 ohm, 1 watt	1	R203	Panasonic-ECG	ERJ-1TYJ820U	DigiKey	PT82XCT-ND	0.35	0.35
49	100 ohm, 1/8 watt	5	R1,R306, R308, R317 R602	Panasonic-ECG	ERJ-8GEYJ101V	DigiKey	P100ECT-ND	0.08	0.40

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50	200 ohm, 1/8 watt	3	R101 R109 R604	Panasonic-ECG	ERJ-8GEYJ201V	DigiKey	P200ECT-ND	0.08	0.24
51	470 ohm, 1/8 watt	6	R107, R108, R205, R208, R307, R309	Panasonic-ECG	ERJ-8GEYJ471V	DigiKey	P470ECT-ND	0.08	0.48
52	1 K ohm, 1/8 watt	13	R104, R105, R106, R112, R113, R114 R200, R204, R206 R207, R300, R305 R402	Panasonic-ECG	ERJ-8GEYJ102V	DigiKey	P1.0KECT-ND	0.08	1.04
53	1.2 K ohm, 1/8 watt	1	R607	Panasonic-ECG	ERJ-8GEYJ122V	DigiKey	P1.2KECT-ND	0.08	0.08
54	2 K ohm, 1/8 watt	3	R103, R111, R115	Panasonic-ECG	ERJ-8GEYJ202V	DigiKey	P2.0KECT-ND	0.08	0.24
55	2.7K ohm, 1/8 watt	1	R116	Panasonic-ECG	ERJ-8GEYJ272V	DigiKey	P2.7KECT-ND	0.08	0.08
56	5.1K ohm, 1/8 watt	5	R502,R503, R608 R609, R610	Panasonic-ECG	ERJ-8GEYJ512V	DigiKey	P5.1KECT-ND	0.09	0.45
57	5.6K ohm 1/8 watt	1	R201	Panasonic-ECG	ERJ-8GEYJ562V	DigiKey	P5.6KECT-ND	0.08	0.08
58	9.1 K ohm, 1/8 watt	1	R500	Panasonic-ECG	ERJ-8GEYJ912V	DigiKey	P9.1KECT-ND	0.09	0.09
59	15K ohm, 1/8 watt	2	R501, R606	Panasonic-ECG	ERJ-8GEYJ153V	DigiKey	P15KECT-ND	0.09	0.18
60	18 K ohm, 1/8 watt	1	R605	Panasonic-ECG	ERJ-8GEYJ183V	DigiKey	P18KECT-ND	0.08	0.08
<u>Transistors</u>									
61	Monolithic Amplifier	1	Q1	Mini Circuits	MARS6-SM	Mini Circuits	MARS6-SM	1.21	1.21
62	Monolithic Amplifier	1	Q600	Mini Circuits	MARS4-SM	Mini Circuits	MARS4-SM	1.34	1.34
63	100 v NPN	1	TR200	Zetex	FCX493TA	DigiKey	FCX493CT-ND	1.05	1.05
64	40 v NPN	1	TR201	Zetex	FMMT3904TA	DigiKey	FMMT3904CT-ND	0.36	0.36

B. GROUND UNIT - BOARD ONLY

<u>Item</u>	<u>Value/ description</u>	<u>Qty</u>	<u>Location / PCB part reference #</u>	<u>Manufacturer</u>	<u>Manufacturer part #</u>	<u>Distributor</u>	<u>Dist. Part #</u>	<u>Unit Price</u>	
<u>Capacitors</u>									
65	.1uf	7	C402, C403, C404, C405, C406, C407, C408	Panasonic-ECG	ECU-V1H104KBW	Digikey	PCC104BCT-ND	0.28	1.96
66	10 uf	2	C400 C401	Panasonic-ECG	ECS-T1ED106R	Digikey	PCS5106CT-ND	0.81	1.62
<u>Connectors</u>									
67	3 pin SIP	1	PGM	AMP	644456-3	Digikey	A19351-ND	0.23	0.23
68	2 pin header	1	JU1	AMP	644456-2	Digikey	A19350-ND	0.19	0.19
69	2 pin jumper	1	JU1	AMP	382811-8	Digikey	A26228-ND	0.09	0.09
<u>Diodes</u>									
70	6.2v zener	1	D401	Diodes Inc	MMSZ5234BDICT	Digikey	MMSZ5234BDICT-ND	0.43	0.43
<u>I.C.'s</u>									
71	H Bridge	3	AZ-HB EL-HB LD-HB	National Semiconductor	LMD18200T	Digikey	LMD18200T-ND	23.55	70.65
72	5v reg	1	L400	Motorola	MC78M05CDT	Newark	07F7474	0.71	0.71
73	3 terminal adjustable regulator	1	L401	Motorola	LM317BD2T	Newark	01F2148	0.98	0.98
74	comparator	1	U400	Analog Devices	CMP402GS	Newark	52F2158	6.65	6.65
75	Stamp	1	Stamp1	Parallax Inc	BS1-IC	DigiKey	Stamp1-ND	34.00	34.00
76	RS232DX/RX	1	U1	Linear Tech	LT1181ACSW	Digikey	LT1181ACSW-ND	5.13	5.13
77	<u>PC Board</u>	1			Dig Srt Controller			55.00	55.00
<u>Resistors</u>									
78	20 ohm, 5 watt	1	R405	Yaego	SQP500JB-20R	Digikey	20W-5-ND	0.41	0.41
79	39 ohm, 5 watt	1	R420	Yaego	SQP500JB-39R	Digikey	39W-5-ND	0.41	0.41
80	150 ohm, 1/8 watt	1	R417	Panasonic-ECG	ERJ-8GEYJ151V	DigiKey	P150ECT-ND	0.08	0.08

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81	240 ohm, 1/8 watt	1	R404	Panasonic-ECG	ERJ-8GEYJ241V	DigiKey	P240ECT-ND	0.08	0.08
82	200 ohm, 2 watt	1	R419	Panasonic-ECG	ERG-2SJ201	DigiKey	P200W-2BK-ND	0.27	0.27
83	1 K ohm, 1/8 watt	6	R400 R408 R409 R410 R412 R414	Panasonic-ECG	ERJ-8GEYJ102V	DigiKey	P1.0KECT-ND	0.08	0.48
84	3.9K ohm, 1/8 watt	1	R406	Panasonic-ECG	ERJ-8GEYJ392V	Digikey	P3.9KECT-ND	0.08	0.08
85	4.3K ohm, 1/8 watt	1	R407	Panasonic-ECG	ERJ-8GEYJ432V	Digikey	P4.3KECT-ND	0.08	0.08
86	5.1K ohm, 1/8 watt	2	R413 R415	Panasonic-ECG	ERJ-8GEYJ512V	DigiKey	P5.1KECT-ND	0.08	0.16
87	10 K ohm, 1/8 watt	2	R401 R402	Panasonic-ECG	ERJ-8GEYJ103V	DigiKey	P10KECT-ND	0.08	0.16
88	13K ohm, 1/8 watt	1	R403	Panasonic-ECG	ERJ-8GEYJ133V	DigiKey	P13KECT-ND	0.08	0.08
89	22 K ohm, 1/8 watt	1	R416	Panasonic-ECG	ERJ-8GEYJ223V	DigiKey	P22KECT-ND	0.08	0.08
<u>Transistors</u>									
90	40V NPN	2	TR400 TR401	Zetex	FMMT3904TA	Digikey	FMMT3904CT-ND	0.36	0.72
								TOTAL	685.58