

Loop Main Board BOM

1000-1854

Rev 2

Date 12/18/2008

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Item	P/N	Qty	Rev	Title	Detail	Reference(m)	Mfr	Mfr P/N
1	1000-0005	1	1	Ceramic Capacitor	0.1uF:25V::10%	C24	Panasonic	ECJ-1VB1E104K
2	1000-0006	3	1	Ceramic Capacitor	2.2uF:16V::10%	C13,C37,C44	Panasonic	ECJ-2FB1C225K
3	1000-0009	7	1	Ceramic Capacitor	1.0uF:16V::10%	C12,C14-C16,C27,C40,C43	Panasonic	ECJ-1VB1C105K
4	1000-0404	3	1	Resistor	0::1/16W:5%	R9,R16,R18	Panasonic	ERJ-2GE0R00X
5	1000-0418	1	1	Resistor	1M::1/16W:1%	R13	Panasonic	ERJ-2RK1004X
6	1000-0420	2	1	Ceramic Capacitor	27pF:50V::5%	C7,C10	Panasonic	ECJ-0EC1H270J
7	1000-0421	2	1	Ceramic Capacitor	15pF:50::5%	C25,C26	Panasonic	ECJ-0EC1H150J
8	1000-0452	17	1	Ceramic Capacitor	0.1uF:10V::10%	C1-C5,C9,C11,C21-C23,C28,C29,C32,C33,C36,C45,C46	Panasonic	ECJ-0EB1A104K
9	1000-0454	2	1	Resistor	100K::1/16W:1%	R3,R4	Rohm	MCR01MZPF1003
10	1000-0471	3	1	Ceramic Capacitor	220pF:50V::5%	C30,C31,C34	Panasonic	ECJ-0EC1H221J
11	1000-0540	1	1	Resistor	56.0K:50V:1/16W:1%	R8	Rohm	MCR01MZPF5602
12	1000-0541	1	1	CC2500 RF Transceiver	2.4GHz:1.8-3.6::	U7	Chipcon	CC2500RTKR
13	1000-0549	1	1	Ferrite bead, 600 ohm	600 ohm:::	L1	Steward	HZ0402A601R-10
14	1000-0580	6	1	Resistor	3.92K::1/16W:1%	R1,R2,R5-R7,R17	Panasonic	ERJ-2RK13921X
15	1000-0583	2	1	Inductor, SMT, 0.2ohm	1.5nH:0.28::0.1nH	L5,L6	muRata	LQP15MN1N5B02D
16	1000-0627	1	1	Tri Axis Accelerometer, SPI	±2g:::	U4	STMicroelectronics, Inc.	LIS3LV02DL
17	1000-0720	2	1	Dioide, Zener, 5.1 V, 1W, 5%	:::	D1,D2	Diodes	SMAZ5V1-13-F
18	1000-0722	1	1	Resistor	510::1/4W:5%	R10	Panasonic	ERJ-8GEYJ511V
19	1000-0742	1	1	Ceramic Capacitor	10uF:10V::10%	C35	Panasonic	ECJ-2FB1A106K
20	1000-0798	1	1	Saturn Custom Battery Contact - NEG	neg:::	J6		
21	1000-0799	1	1	Saturn Custom Battery Contact - POS	pos:::	J5		
22	1000-0943	1	1	Inductor, SMT, 33 mohm	6.2uH:1.8::30%	L7	Sumida	CDRH5D28NP-6R2NC
23	1000-0944	1	1	Synchronous Boost Converter, adjustable	1.8-5.5V:::4%	U9	Texas Instruments, Inc.	TPS61020DRCR
24	1000-0945	1	1	Capacitor, SMT, Tantalum, low ESR (110mohms)	47uF:16V::20%	C38	Vishay	594D476X0016C2T
25	1000-0946	1	1	Resistor	178K::1/16W:1%	R14	Panasonic	ERJ-2RK1783X
26	1000-0980	1	1	Low RDSon N-channel MOSFET (Pb Free)	.03 Ohms:20V:2W:	Q1	International Rectifier	IRLMS2002TRPBF
27	1000-1270	2	1	Ceramic Capacitor	.22uF:6.3V::10%	C41,C42	Panasonic	ECJ-0EB0J224K
28	1000-1271	1	1	Header, .050in centers, 0.12in pins	2 x 7:::	J1	Samtec	FTS-107-01-F-D-P
29	1000-1430	1	1	Crystal, 10pF, SMT	27.000MHz::1uW:10ppm	X2	Abracon Corporation	ABM8-27.000MHZ-10-1-U-T
30	1000-1516	1	0	Microcontroller, 128K Flash, 16K RAM, 37 I/Os	32-Bit_Cortex-M3:2.0-3.6V::	U2	STMicroelectronics, Inc.	STM32F101CBT6
31	1000-1524	1	0	Dual Axis Rotational Sensor IDG400	:3V::	U11	InvenSense	IDG-400
32	1000-1699	2	0	Voltage Regulator, Fixed, 2.8V	2.8V:1.6-6.0V::2%	U3,U10	Torex	XC6221A282GR
33	1000-1710	1		Serial Flash Memory, SPI	4Mb:2.7-3.6V::	U1	Atmel	AT25DF041A-SSH-B
34	1000-1730	1	0	Crystal, 18pF, SMT	8.000MHz::100uW-1mW:20ppm	X1	Abracon Corporation	ABMM2-8.000MHZ-E2-T
35	1000-1762	3	0	Ceramic Capacitor	2.2uF:10V::10%	C6,C8,C39	Panasonic	ECJ1VB1A225K
36	1000-1897	0	1	Schematic, Loop 3.0 Main	:::			
37	1000-1920	1	1	PCB, Main, Loop 3	:::			
38	1000-1922	0	1	Assy Drawing, Loop 3 Main				

RF section