

Table 4-1. Bill of Materials

Qty	Part Reference	Description	Value	Voltage	Power	Tolerance	Manufacturer	Manufacturer Part Number
1	ANT1	PCB F ANTENNA	F ANTENNA				NOT A PART	NOT A PART
1	BC1	PCB Battery Holder 2xAAA	2468				Keystone	2468
0	BC2	Surface mount coin cell holder CR2477N	SMTU2477N-1				Reneta	SMTU2477N-1
0	BC3	Surface mount coin cell holder CR2450N	SMTU2450N-1				Renata	SMTU2450N-1
0	C1,C57,C58	Ceramic Capacitor COG	10pF	50V		5%	Murata	GRM1555C1H100JZ01
5	C2,C6,C50,C51,C54	Ceramic Capacitor X5R	100nF	10V		10%	Murata	GRM155R61A104KA01D
0	C3	Ceramic Capacitor COG	1pF	50V		0.25pF	Murata	GRM1555C1H1R0CZ01D
0	C4	Ceramic Multilayer Capacitor X7R	27nF	10V		5%	Vishay	VJ0402Y273JXQCW1BC
0	C5	Ceramic Multilayer Capacitor X7R	180nF	16V		5%	Vishay	VJ0603Y184JXJCW1BC
2	C7,C12	Ceramic Capacitor COG	22pF	50V		5%	Murata	GRM1555C1H220JZ01J
1	C8	Ceramic Capacitor COG	100pF	50V		5%	Murata	GRM1555C1H101JZ01
0	C10	Ceramic Capacitor X5R	1uF	6.3V		10%	Murata	GRM155R60J105KE19B
1	C11	Ceramic Capacitor X7R	1nF	50V		10%	Murata	GRM155R71H102KA01D
0	C52	Ceramic Capacitor for smoothing X5R	10uF	10V		10%	Murata	GRM21BR61J106KE19L
1	C53	Ceramic Multilayer Capacitor X7R NoPb	1uF	16V		15%	Murata	GRM21BR71C105
2	C55,C56	Ceramic Multilayer Capacitor X5R	4.7uF	16V		15%	Phycomp	2222 781 13672
0	C59,C60	Low ESR Tantal Capacitor	100uF	16V		+/-10%	AVX	TPSD107K016R150
2	D1,D2	SMD Red top led	LHR974				OSRAM	Q62702P5182
1	D5	SMD Green top led	LGR971				OSRAM	Q65110P5179
3	D6,D7,D8	SMD Power Schottky Rectifier	MBR0520LT1	20V			On Semiconductor	MBR0520LT1G

Table 4-1. Bill of Materials (continued)

1	J1	Dual Row Right Angle pin header 0.38um gold	90122-20				Molex	90122-0770
1	J2	Dual Row Right Angle pin header 0.38um gold	90122-12				Molex	90122-0766
1	J3	Dual Row Right Angle pin header 0.38um gold	90122-6				Molex	90122-0763
1	J4	DC Power Jack PCB, 2mm	DJ-005				Taitek	2DC-0005-D100
5	J16,J17,J18,J19,J20	Single Row Straight Pin Header SMD	TSM-102-01-L-SV				Samtec	TSM-102-01-L-SV
0	L1	HF Chip coil	3.9nH			5%	Murata	LQG15HS3N9S02D
0	L2	SMD power inductor	100uH			20%	TDK	SLF6028T-101MR42-PF
1	PCB1		JDP7051_2					
1	Q1	P-channel MOSFET	ZXM61P02F	20V			Zetex	ZXM61P02F
1	Q2	Digital P-Channel FET	FDV302	25V			Fairchild	FDV302P
1	RT1	Polyswitch Overcurrent Protection Device	500mA	13.2V			Tyco Electronics	microSMD050F
5	R1,R69,R74,R103,R104	Fixed resistor RC31	10K	50V	0.063 W	2%	Philips	2322 705 50103
1	R65	Fixed resistor RC21	0R	50V	0.063 W	5%	Philips	2322 702 91002
4	R3,R66,R68,R105	Fixed resistor RC31	0R	50V	0.063 W	2%	Philips	2322 705 91002
0	R4	Fixed resistor RC31	0R	50V	0.063 W	2%	Philips	2322 705 91002
0	R5	Fixed resistor RC31	240R	50V	0.063 W	2%	Philips	2322 705 50241
2	R6,R7	Fixed resistor RC31	390R	50V	0.063 W	2%	Philips	2322 705 50391
1	R11	Fixed resistor RC31	220R	50V	0.063 W	2%	Philips	2322 705 50221
2	R12,R70	Fixed resistor RC31	100K	50V	0.063 W	2%	Philips	2322 705 50104
0	R71	Fixed resistor RC31	10K	50V	0.063 W	2%	Philips	2322 705 50103

Table 4-1. Bill of Materials (continued)

0	R72,R73	Fixed resistor RC31	1K	50V	0.063 W	2%	Philips	2322 705 50102
0	R106,R107	Fixed resistor RC31	4.7K	50V	0.063 W	2%	Philips	2322 705 50472
1	R120	RES MF 120K 1/16W 1% 0402	120K		1/16W	1%	KOA SPEER	RK73H1ETTP1 203F
1	R121	RES MF 24.9K 1/16W 1% 0402	24.9K		1/16W	1%	KOA SPEER	RK73H1ETTP2 492F
2	SW1,SW2	SMD Tact Switch 2.6N (7.0mm)	DTSM63N				Diptronic	DTSM-63R-V-B
1	SW5	Miniature Slide Switch 2 pole	MFP213N-RA				Knitter-Switch	MFP213N-RA
1	U1	ZigBee Wireless Transceiver and ARM7 processor	MC13225				Freescale	MC13225
1	U2	LDO voltage regulator 3V3	LT1129CST-3.3				Linear Technology	LT1129CST-3.3
1	U17	IC VREG ADJ 1.24-5.3V 20MA SOIC8	LM285M				NATIONAL SEMICONDUCTOR	LM285M/NOPB
1	X1	Crystal SMD	24.00MHz			+10ppm	NDK	NX3225SA-24 MHz / S1-3085-1510-9
1	X2	Crystal SMD	32.768kHz			+20ppm	Abracon	ABS25-32.768-12.5-2-T