

Table 5-1. Bill of Materials

QTY	Part Reference	Description	Value	Voltage	Tolerance	Manufacturer	Manufacturer Part Number
1	ANT1	F_Antenna	PCB F ANTENNA			NOT A PART	NOT A PART
1	BUZ1	SMD Speaker	NDT-03C			Star Micronics	NDT-03C
1	BC1	PCB Battery Holder 2xAA	2462			Keystone	2462
0	C1,C51,C54	Ceramic Capacitor C0G	10pF	50V	5%	Murata	GRM1555C1H100JZ01
2	C14,C32	CAP CER 10UF 6.3V 20% X5R 0603	10uF	6.3V	20%	PANASONIC	ECJ1VB0J106M
3	C24,C25,C44	Ceramic Capacitor X5R	1uF	6.3V	10%	Murata	GRM155R60J105KE19B
0	C10	Ceramic Capacitor X5R	1uF	6.3V	10%	Murata	GRM155R60J105KE19B
1	C11	Ceramic Capacitor X7R	1nF	50V	10%	Murata	GRM155R71H102KA01D
1	C19	Ceramic Capacitor X5R	22uF	6.3V	20%	Murata	GRM21BR60J226ME39L
19	C2,C6,C13,C15,C16,C17,C18,C21,C22,C23,C26,C27,C30,C31,C35,C38,C40,C41,C50	Ceramic Capacitor X5R	100nF	10V	10%	Murata	GRM155R61A104KA01D
1	C20	Ceramic Capacitor C0G	47pF	50V	5%	Murata	GRM1555C1H470JZ01D
1	C28	Ceramic Capacitor X7R	47nF	25V	10%	Murata	GRM155R71E473KA88
0	C3	Ceramic Capacitor C0G	1pF	50V	0.25pF	Murata	GRM1555C1H1R0CZ01D
1	C33	Ceramic Capacitor X7R	22nF	25V	10%	Murata	GRM155R71E223KA61D
2	C34,C49	Ceramic Multilayer Capacitor X7R NoPb	1uF	16V	15%	Murata	GRM21BR71C105
3	C36,C37,C48	Ceramic Multilayer Capacitor X5R	4.7uF	16V	15%	Phycomp	2222 781 13672

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0	C4	Ceramic Multilayer Capacitor X7R	27nF	10V	5%	Vishay	VJ0402Y273JXQCW1BC
2	C42,C43	Ceramic Capacitor C0G	15pF	50V	5%	Murata	GRM1555C1H150JZ01J
1	C45	Ceramic Capacitor X7R	220nF	10V	10%	Murata	GRM188R71A224KA01
1	C46	Ceramic Capacitor C0G	270pF	50V	5%	Murata	GRM1555C1H271JA01
1	C47	Ceramic Capacitor C0G	3.3nF	50V	15%	Murata	GRM155R71H332KA01
0	C5	Ceramic Multilayer Capacitor X7R	180nF	16V	5%	Vishay	VJ0603Y184JXJCW1BC
1	C53	Ceramic Multilayer Capacitor X5R	4.7uF	10V	10%	Murata	GRM219R61A475KE34D
0	C7,C12	Ceramic Capacitor C0G	22pF	50V	5%	Murata	GRM1555C1H220JZ01J
2	C8,C74	Ceramic Capacitor C0G	100pF	50V	5%	Murata	GRM1555C1H101JZ01
1	C52	Ceramic Capacitor X7R	10nF	25V	10%	Murata	GRM155R71E103KA01D
1	C75	Ceramic Capacitor X7R	4.7nF	25V		Murata	GRM155R71E472KA01D
0	C9	Ceramic Capacitor X7R	10nF	25V	10%	Murata	GRM155R71E103KA01D
4	D1,D2,D3,D4	SMD Red toped	LHR974			OSRAM	Q62702P5182
1	D5	SMD Green toped	LGR971			OSRAM	Q65110P5179
6	D6,D7,D8,D9,D10,D11	SMD Power Schottky Rectifier	MBR0520LT1	20V		On Semiconductor	MBR0520LT1G
1	J3	2.5mm Audio stereo jack with switch	STX-2550-5NTR			Kycon	STX-2550-5NTR
1	J7	Single Row Straight Pin Header SMD w. Plastic Pick & Place Pad	TSM-103-01-L-S V			Samtec	TSM-103-01-L-SV-P-TR
2	J19,J20	HDR 1X2 TH 100MIL SP 330H AU	TSW-102-07-S-S			SAMTEC	TSW-102-07-S-S

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1	J18	HDR 1X2 TH 100MIL SP 330H AU	TSW-102-07-S-S			SAMTEC	TSW-102-07-S-S
0	L1	HF Chip coil	3.9nH		5%	Murata	LQG15HS3N9S02D
1	L2	Chip Ferrite Bead	500mA			Murata	BLM11P600Sxx
1	Q1	P-channel MOSFET	ZXM61P02F	20V		Zetex	ZXM61P02F
6	R1,R40,R73,R87,R103,R104	Fixed resistor RC31	10K	50V	2%	Philips	2322 705 50103
17	R3,R33,R37,R38,R43,R44,R50,R51,R64,R65,R68,R84,R105,R108,R109,R110,R111	Fixed resistor RC31	0R	50V	2%	Philips	2322 705 91002
0	R4,R32,R34,R66	Fixed resistor RC31	0R	50V	2%	Philips	2322 705 91002
2	R11,R30	Fixed resistor RC31	220R	50V	2%	Philips	2322 705 50221
5	R12,R23,R24,R26,R42	Fixed resistor RC31	100K	50V	2%	Philips	2322 705 50104
7	R14,R16,R17,R18,R25,R31,R35	Fixed resistor RC31	1K	50V	2%	Philips	2322 705 50102
0	R69,R70	Fixed resistor RC31	1K	50V	2%	Philips	2322 705 50102
5	R15,R56,R57,R106,R107	Fixed resistor RC31	4.7K	50V	2%	Philips	2322 705 50472
1	R20	Fixed resistor RC31	200K	50V	2%	YAGEO AMERICA	RC0402JR-07200KL
0	R71,R74	Fixed resistor RC31	10K	50V	2%	Philips	2322 705 50103
1	R29	Fixed resistor RC31	47K	50V	2%	Philips	2322 705 50473
0	R5	Fixed resistor RC31	240R	50V	2%	Philips	2322 705 50241

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3	R58,R59, R67	Fixed resistor RC31	27K	50V	2%	Philips	2322 705 50273
4	R6,R7,R8, R9	Fixed resistor RC31	390R	50V	2%	Philips	2322 705 50391
1	R60	Fixed resistor RC31	8.2K	50V	2%	Philips	2322 705 50822
1	R61	Fixed resistor RC31	13K	50V	2%	Philips	2322 705 50133
1	R85	Fixed resistor RC32	11K	50V		KOA SPEER	RK73H1ETTP1102F
1	R86	Fixed resistor RC33	1.8K	50V		KOA SPEER	RK73H1ETTP1801F
1	R88	Fixed resistor RC34	51K	200V		KOA SPEER	RK73H1ETTP5102F
1	R120	RES MF 120K 1/16W 1% 0402	120K		1%	KOA SPEER	RK73H1ETTP1203F
1	R121	RES MF 24.9K 1/16W 1% 0402	24.9K		1%	KOA SPEER	RK73H1ETTP2492F
4	R122,R12 3,R124,R1 25	RES MF 1.0K 1/16W 5% 0402	1K		5%	VISHAY INTERTECHN OLOGY	CRCW04021K00JNED
2	RT1,RT2	Polyswitch Overcurrent Protection Device	500mA	13.2V		Tyco Electronics	microSMD050F
5	SW1,SW2, SW3,SW4, SW5	SMD Tact Switch 2.6N (7.0mm)	DTSM63N			Diptronic	DTSM-63N-V-B
1	SW6	4-directional TACT switch with center push SMD	SKRHA			ALPS	SKRHAAE010
1	SW7	Miniature Slide Switch 4 pole	MFP461N-RA			Knitter-Switch	MFP461N-RA
1	U1	ZigBee Wireless Transceiver and ARM7 processor	MC13225			Freescale	MC13225
1	U10	USB UART, PB-free	FT232R			FTDI	FT232RQ
1	U13	Digitally Controlled Potentiometer, 50Kohm	MAX5434			Maxim	MAX5434LEZT+T

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1	U3	+/-1.5g to 6g Three axis low-g accelerometer	MMA7260Q			Freescale	MMA7260QR2
1	U4	10-bit Low Power DAC with rail to rail output	DAC101S101			National Semiconductor s	DAC101S101CIMK-NoPB
1	U5	Integrated Pressure Sensor	MPXV5010G			Freescale	MPXV5010GC6U
1	U6	Audio class AB amplifier, 1,0W	NCP4896			On Semiconductor	NCP4896FCT1G
1	U7	Temperature Sensor 2,7V	LM61			National Semiconductor s	LM61BIM3
2	U9,U12	LDO voltage regulator 3V3	LT1129CST-3.3			Linear Technology	LT1129CST-3.3
1	U14	IC LIN OPAMP QUAD 2.2MHZ 1.8-12V TSSOP14	MC33204DTBG			ON SEMICONDUCTOR	MC33204DTBG
1	U17	IC VREG ADJ 1.24-5.3V 20MA SOIC8	LM285M			National Semiconductor s	LM285M/NOPB
1	X1	Crystal SMD	24.00MHz		+10ppm	NDK	NX3225SA-24MHz (for OA/AV and BlueTooth) / S1-3085-1510-9
0	X2	Crystal SMD	32.768kHz		+20ppm	Abracon	ABS25-32.768KHZ-T
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	90122-26			Molex	90122-0773
1	J5	DC Power Jack PCB, 2mm	DJ-005			Taitek	2DC-0005-D100
1	J6	USB-series "B" receptacle	USB-B			AMP	292304-1