

Item Number	Reference	Qty	Manufacturer	Manufacturer P/N	DigiKey P/N	Description
Capacitors						
1	C1	1		CL05A105KO5NNNC	1276-1067-1-ND	CAP CER 1UF 16V X5R 0402
2	C2, C7	2	Murata Electronics	GRM188R60J106ME47D	490-3896-1-ND	10µF 6.3V Ceramic Capacitor X5R 0603 (1608 Metric) 0.063" L x 0.031" W (1.60mm x 0.80mm)
3	C3, C8, C9, C10, C11, C12, C101, C102, C103, C104	10	Murata Electronics	GRM155R70J104KA01D	490-6319-1-ND	0.10µF 6.3V Ceramic Capacitor X7R 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)
4	C4, C5	2	Murata Electronics	GRM1555C1H7R0BA01D	490-6254-1-ND	7pF 50V Ceramic Capacitor C0G, NP0 0402 (1005 Metric) 0.039" L x 0.020" W (1.00mm x 0.50mm)
5	C13, C14					DO NOT PLACE - Backups for 24MHz XTAL, in case the on-chip capacitors do not provide the correct value
Inductors						
6	L1	1	Taiyo Yuden	CKS2125100M-T	587-2608-1-ND	10µH Unshielded Multilayer Inductor 110mA 520 mOhm Max 0805 (2012 Metric)
Resistors						
7	R1	1	Panasonic Elec. Comp.	ERJ-2GEJ104X	P100KJCT-ND	RES SMD 100K OHM 5% 1/10W 0402
8	R2	1	Panasonic Elec. Comp.	ERJ-2RKF1001X	P1.00KLCT-ND	RES SMD 1K OHM 1% 1/10W 0402
9	R101, R102, R103	3	Panasonic Elec. Comp.	P10KJCT-ND	P10KJCT-ND	RES SMD 10K OHM 5% 1/10W 0402
Misc						
10	D1	1	Rohm Semi	SMLE12WBC7W1	511-1602-1-ND	LED WHITE 0603 SMD
11	Y1	1	Epson	TSX-3225 24.0000MF15X-AC6	SER4180CT-ND	CRYSTAL 24.00 MHZ 9.0PF SMD
12	Y2	1	AVX / Kyocera	ST2012SB32768C0HPWBB	1253-1342-1-ND	32.768kHz ±20ppm Crystal 7pF 80 kOhm -40°C ~ 85°C
13	J1	1	Samtec Inc.	FLE-103-01-G-DV	SAM1226-03-ND	CONN RCPT 6POS DUAL .05" SMD
14	JTAG connector	1	Samtec Inc.	FTS-103-01-L-DV	SAM1157-03-ND	CONN HEADER 6POS DUAL .05" SMD -not on PCB- used for JTAG Programmer wires-
15	FL1	1	Johanson Technology	2450BM14G0011	712-1620-1-ND	RF Balun 2.4GHz ~ 2.5GHz 50 / - Ohm 6-SMD, No Lead (DFN, LCC)
ICs						
16	U1	1	TI	CC2640F128RSMT	296-41116-1-ND	IC RF TxRx + MCU Bluetooth Bluetooth v4.1 2.4GHz 32-VFQFN Exposed Pad, 4mm x 4mm, 0.4mm pitch
17	U101	1	Silicon Labs	SI7051-A20-IM	336-3609-ND	HIGH ACCURACY TEMP SENSOR OPTIMI
18	U102	1	TI	OPT3001DNPR	296-40474-1-ND	Optical Sensor Ambient 550nm I²C 6-UDFN Exposed Pad
19	U103	1	Analog Devices	ADXL362BCCZ-RL7	ADXL362BCCZ-RL7CT-ND	Accelerometer X, Y, Z Axis ±2g, 4g, 8g 6.25Hz ~ 400Hz 16-LGA (3x3.25)
Battery and Battery Holder						
20	Battery Holder	1	MPD	BHSD-1225-SM	BHSD-1225-SMCT-ND	BATTERY HOLDER COIN SMD
21	Battery Holder Cover	1	MPD	BHSD-1225-COVER	BHSD-1225-COVER-ND	COVR SNAP DRAGON LOCKING
22	Battery	1	Panasonic - BSG	BR-1225	P183-ND	Lithium Battery Non-Rechargeable (Primary) 3V Coin, 12.5mm

