



T-M9W172284B 3PCS BOM (Sample Bill of Materials)

*quantities for 3 PCB

Item #	*Designator	*Qty	Manufacturer	*Mfg Part #	Description / Value	*Package/ Footprint	Type	Your Instructions / Notes (*sample DigiKey parts)
1	BT1	3	Keystone Electronics	3034	Keystone Electronics 3034 Battery Holder	SMD	SMD	https://www.digikey.com/en/products/detail/keystone-electronics/3034/4499289
2	U1	3	Nordic Semiconductor ASA	NRF52832-QFAA-R	Nordic Semiconductor NRF52832 SoC	QFN-48	SMD	https://www.digikey.com/en/products/detail/nordic-semiconductor-asa/NRF52832-QFAA-R/5428659
3	Y1	3	KYOCERA AVX (or equivalent)	CX2016SA32000D0HLLG1 (or equivalent)	32Mhz, Crystal, SMD 2016, 32 MHz, Cl=8 pF, total tol. ±40 ppm	2.0x1.6mm	SMD	https://www.digikey.com/en/products/detail/kyocera-avx/CX2016SA32000D0HLLG1/21703113
4	Y2	3	Jauch Quartz (or equivalent)	Q 0,032768-JTX310-9-20-T2- HMR-LF (or equivalent)	32.768 kHz, Crystal SMD 3215, Cl=9 pF, total tol. ±50 ppm	3.2x1.5mm	SMD	https://www.digikey.com/en/products/detail/jauch-quartz/Q-0-032768-JTX310-9-20-T2-HMR-LF/8108102
5	D1, D2, D3	9	Cree LED	CLV1L-FKB- CJQRNQEFGBB79353	Cree LED CLV1L-FKB-***	3.2x2.8mm	SMD	https://www.digikey.com/en/products/detail/cree-led/CLV1L-FKB-CJQRNQEFGBB79353/9659628
6	C1, C11, C12, C2	12	Any	Any	12pF, Capacitor, NP0, ±2%	0603	SMD	https://www.digikey.com/en/products/detail/cal-chip-electronics-inc/GMC10CG120G50NTD/24398943
7	C13, C6	6	Any	Any	100nF, Capacitor, X7R, ±10%	0603	SMD	https://www.digikey.com/en/products/detail/cal-chip-electronics-inc/GMC10X7R104K25NT/19910724
8	C3	3	Any	Any	0.8pF, Capacitor, NP0, ±5%	0603	SMD	https://www.digikey.com/en/products/detail/yageo/AQ0603ARNPO9BNR80/14652763
9	C4	3	Any	Any	100pF, Capacitor, NP0, ±5%	0603	SMD	https://www.digikey.com/en/products/detail/walsin-technology-corporation/0603N101J500CT/6707549
10	C7	3	Any	Any	1.0uF, Capacitor, X7R, ±10%	0603	SMD	https://www.digikey.com/en/products/detail/samsung-electro-mechanics/CL10B105KP8NFNC/3887603
11	C8	3	Any	Any	4.7uF, Capacitor, X5R, ±10%	0603	SMD	https://www.digikey.com/en/products/detail/samsung-electro-mechanics/CL10A475KQ8NNNC/3886703
12	L1	3	Johanson Technology Inc. (or equivalent)	LRC0603CS3N9GV001T (or equivalent)	3.9nH, High frequency chip inductor ±5%	0603	SMD	https://www.digikey.com/en/products/detail/johanson-technology-inc/LRC0603CS3N9GV001T/1561294
13	L2	3	Johanson Technology Inc. (or equivalent)	LRC0603CJ15NGV001T (or equivalent)	15nH, High frequency chip inductor ±10%	0603	SMD	https://www.digikey.com/en/products/detail/johanson-technology-inc/LRC0603CJ15NGV001T/1561308
14	L3	3	TDK Corporation (or equivalent)	MLZ1608N100LT000 (or equivalent)	10uH, Chip inductor, IDC,min = 50 mA, ±20%	0603	SMD	https://www.digikey.com/en/products/detail/tdk-corporation/MLZ1608N100LT000/2523493
15	R1	3	Any	Any	0 / Zero Ohm	0603	SMD	https://www.digikey.com/en/products/detail/yageo/RC0603JR-070RL/726675
16	R10, R2, R3, R4, R5, R6, R7, R8, R9	27	Any	Any	220 Ohm	0603	SMD	https://www.digikey.com/en/products/detail/yageo/RC0603JR-07220RL/726741
	Antenna2, C15, C5 J1	-	-	-	Do not populate.	-	-	