



Bill of Materials for the SECO-RSL10-TAG-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
ANT1	1	PCB trace antenna 2.4GHz for the RSL10 IC based on the RSL10 USB Dongle design	2.4GHz			N/A	Antenna snake shape	Yes	Yes
BAT1	1	Coin cell battery 3.0V 220mAh 20.0x3.2mm non-rechargeable Panasonic	Coin cell battery 3V 220mAh 20.0x3.2mm non-rechargeable					Yes	Yes
BH1	1	PTH battery holder 20mm diameter 0.2mm material thickness	CR2032 battery holder			Shenzhen Ljcell	SZ-LJ-WJ-CR2032-1	Yes	Yes
C1	1	MLC capacitor 4µ7 10V X5R 20% Murata	4µ7			Murata	GRM155R61A475MEAAD	Yes	Yes
C2, C6, C7, C14, C15	5	MLC capacitor 1µF 35V X5R 10% Murata	1 µF			Murata	GRM155R6YA105KE11D	Yes	Yes
C3, C16, C17, C18, C19, C20, C21	7	MLC capacitor 100nF 50V X7R 10% Murata	100 nF			Murata	GRM155R71H104KE14D	Yes	Yes
C4	1	MLC capacitor 100pF 50V C0G 5% Murata	100 pF			Murata	GRM1555C1H101JA01D	Yes	Yes
C5	1	MLC capacitor 4µ7 25V X5R 10% Murata	4µ7			Murata	GRM188R61E475KE15D	Yes	Yes
C8	1	MLC capacitor 2µ2 35V X5R 10% Murata	2µ2			Murata	GRM155R6YA225KE11D	Yes	Yes
C10	1	MLCC capacitor 1.8pF 50V C0G ± 0.25pF Murata	1p8			Murata	GRM1555C1H1R8CA01D	Yes	Yes
C11, C12	2	MLC capacitor 1p5 50V C0G ±0.1pF Murata	1p5			Murata	GJM1555C1H1R5BB01D	Yes	Yes
C13	1	MLC capacitor 470nF 25V X5R 10% Murata	470 nF			Murata	GRM155R61E474KE01D	Yes	Yes
CON1	1	SMD vertical male header 2x5pins 1.27mm Samtec	FTSH-105-01-F-DV-K			Samtec	FTSH-105-01-F-DV-K	Yes	Yes
D1	1	1.6x0.8x0.65mm SMD green LED Kingbright	APHD1608LZGCK			Kingbright	APHD1608LZGCK	Yes	Yes
L1	1	Wound Chip inductor 2µ2 0603 Taiyo Yuden	2µ2			Taiyo Yuden	CBMF1608T2R2M	Yes	Yes
L2	1	Multilayer RF inductor 1n 0402 Murata	1n			Murata	LQG15HS1N0C02D	Yes	Yes
L3	1	Multilayer RF inductor 1n8 0402 Murata	1n8			Murata	LQG15HS1N8S02D	Yes	Yes
L4	1	Multilayer RF inductor 3n 0402 Murata	3 nH			Murata	LQG15HS3N0S02D	Yes	Yes
PB1	1	PTH metal dome pushbutton top actuated 8mm CMD Manufacture	BLT8-300-3.0			CMD Manufacture Co.	BLT8-300-3.0	Yes	Yes
R1	1	SMD thick film resistor 10k 0402 1% 100 mW Panasonic	10k			Panasonic	ERJ2RKF1002X	Yes	Yes
R2	1	SMD thick film resistor 0R 0402 1A Panasonic	0R			Panasonic	ERJ2GE0R00X	Yes	Yes
R3	1	SMD thick film resistor 100k 0402 1% 100 mW Panasonic	100k			Panasonic	ERJ2RKF1003X	Yes	Yes
R4	1	SMD thick film resistor 3k 0402 1% 100 mW Panasonic	3k			Panasonic	ERJ2RKF3001X	Yes	Yes
R5	1	SMD thick film resistor 4k7 0402 1% 100 mW Panasonic	4k7			Panasonic	ERJ2RKF4701X	Yes	Yes
U1	1	RSL10: Radio SoC, Bluetooth® 5 Certified IC ON Semiconductor	NCH-RSL10-101Q48-ABG			ON Semiconductor	NCH-RSL10-101Q48-ABG	No	Yes
U2, U3	2	IntelliMAX™ Advanced Load Management Products ON Semiconductor	FPF1005			ON Semiconductor	FPF1005	No	Yes
U4	1	3-axes ultra-low power accelerometer Memsic Inc.	MC3635			Memsic	MC3635	Yes	Yes
U5	1	Absolute pressure sensor Wurth Elektronik	2511020213301			Wurth Elektronik	2511020213301	Yes	Yes
X1	1	XTAL 48MHz 15ppm 8pF IQD	48 MHz			IQD	LFXTAL069528	Yes	Yes
X2	1	XTAL 32.768kHz 20ppm 12.5pF ECS Inc.	32.768 kHz 20ppm			ECS Inc.	FC-12M 32.7680KA-A5	Yes	Yes