



Bill of Materials for the RSL10-SENSE-DB-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
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	SMD battery holder for CR2032 type batteries, MPN:BAT-HLD-001 Linx Technologies	BAT-HLD-001-TR			Linx Technologies	BAT-HLD-001-TR	YES	YES
C1	1	MLC capacitor 4µ7 10V X5R 20% Murata	4µ7			Murata	GRM155R61A475MEAAD	YES	YES
C2, C3	2	MLC capacitor 100nF 50V X7R 10% Murata	100 nF			Murata	GRM155R71H104KE14D	YES	YES
C4, C5, C7, C11, C13, C14, C15	7	MLC capacitor 100nF 16V X7R 10% Würth Electronics	100 nF			Würth Elektronik	885012205037	YES	YES
C6	1	MLC capacitor 1µF 10V X5R 20% Murata	1 µF			Murata	GRM153R61A105ME95D	YES	YES
C8	1	MLCC capacitor 470nF 6.3V X5R ± 20% Würth Electronics	470 nF			Würth Elektronik	885012105004	YES	YES
C16	1	MLC capacitor 10nF 25V COG 5% Murata	10 nF			Murata	GRM1885C1E103JA01D	YES	YES
CON2	1	SMD vertical male header 2x5pins 1.27mm Samtec	FTSH-105-01-F-DV-K			Samtec	FTSH-105-01-F-DV-K	YES	YES
CON4	1	FFC/FPC SMD horizontal receptacle 1x5pins, 0.5 mm pitch Molex	0512810594			Molex	0512810594	YES	YES
LED1	1	1.6x1.6x0.7mm Full-Color SMD RGB LED Kingbright	APTF1616SEJ3ZGGVBDC			Kingbright	APTF1616SEJ3ZGGVBDC	YES	YES
PB1, PB2, PB_RST	3	SMD pushbutton top actuated 3x2.5x1.2mm Omron Electronics	B3U-1000P			Omron Electronics	B3U-1000P	YES	YES
R1, R2	2	SMD thick film resistor 0R 0402 1A Panasonic	0R			Panasonic	ERJ2GE0R00X	YES	YES
R3, R4, R5, R16	4	SMD thick film resistor 10k 0402 1% 100 mW Panasonic	10k			Panasonic	ERJ2RKF1002X	YES	YES
R6, R7	2	SMD thick film resistor 68R 0402 1% 100 mW Panasonic	68			Panasonic	ERJ2RKF68R0X	YES	YES
R9	1	SMD thick film resistor 200R 0402 1% 100 mW Panasonic	200			Panasonic	ERJ2RKF2000X	YES	YES
R10	1	SMD thick film resistor 30R 0402 1% 100 mW Panasonic	30			Panasonic	ERJ2RKF30R0X	YES	YES
R11	1	SMD thick film resistor 39R 0402 1% 100 mW Panasonic	39			Panasonic	ERJ2RKF39R0X	YES	YES

R12, R13	2	SMD thick film resistor 1k5 0402 1% 100 mW Panasonic	1k5			Panasonic	ERJ2RKF1501X	YES	YES
R14	1	SMD thick film resistor 100k 0402 1% 100 mW Panasonic	100k			Panasonic	ERJ2RKF1003X	YES	YES
R18, R19	2	SMD thick film resistor 4k7 0402 1% 100 mW Panasonic	4k7			Panasonic	ERJ2RKF4701X	YES	YES
U1	1	RSL10: Radio SoC, Bluetooth® 5 Certified IC System in Package (SiP) ON Semiconductor	RSL10 SiP			ON Semiconductor	NCH-RSL10-101551	NO	YES
U3	1	Ambient Light Sensor with I2C Interface and Dark Current Compensation	NOA1305CUTAG			ON Semiconductor	NOA1305CUTAG	NO	YES
U4	1	Ultra low-power sensor hub incl. integrated IMU Bosch Sensortec	BHI160B			Bosch Sensortec	BHI160B	YES	YES
U6	1	MEMS audio sensor omnidirectional stereo digital microphone INMP522 InvenSense/TKD	MEMS audio sensor omnidirectional stereo digital microphone					YES	YES
U7	1	Geomagnetic sensor Bosch Sensortec	BMM150			Bosch Sensortec	BMM150	YES	YES
U8	1	Dual Interface RFID 64kb EEPROM Tag ISO 15693 RF and I2C Bus compliant ON Semiconductor	N24RF64DTET3G			ON Semiconductor	N24RF64DTET3G	NO	YES
U9	1	Digital 4-in-1 sensor with gas, humidity, pressure and temperature measurement Bosch Sensortec	BME680			Bosch Sensortec	BME680	YES	YES