

**Project:** Asset\_tracking\_tag.PrpPcb

Source Data From: Asset\_tracking\_tag.PrpPcb  
 Project: Asset\_tracking\_tag.PrpPcb  
 Variant: standard\_board



Report Date: 5/24/2021 6:56:20 PM  
 Print Date: 11/5/2021 13:02:39

#	Designator	Comment	Description	LibRef	SourceLibraryName	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Supplier 2	Supplier Part Number 2	Quantity
1.	ANT1	2.4GHz	PCB trace antenna 2.4GHz for the RSL10 IC based on the RSL10 USB Dongle design	Antenna snake shape	antennas.SVNDblib	N/A	Antenna snake shape	N/A	N/A	N/A	N/A	1
2.	BAT1	Coin cell battery 3V 220mAh 20.0x3.2mm non-rechargeable	Coin cell battery 3.0V 220mAh 20.0x3.2mm non-rechargeable Panasonic	CR2032	specials.SVNDblib			Digi-Key	P189-ND	Mouser	658-CR2032	1
3.	BH1	CR2032 battery holder	PTH battery holder 20mm diameter 0.2mm material thickness	SZ-LI-WJ-CR2032-1	connectors.SVNDblib	Shenzhen Ujcell	SZ-LI-WJ-CR2032-1	Shenzhen Ujcell Co., Ltd	SZ-LI-WJ-CR2032-1			1
4.	C1	4u7	MLC capacitor 4u7 10V X5R 20% Murata	GRM155R61A475MEAD	capacitors.SVNDblib	Murata	GRM155R61A475MEAD	Digi-Key	490-14306-1-ND	Mouser	81-GRM155R61A475MEAD	1
5.	C2, C6, C7	1uF	MLC capacitor 1uF 35V X5R 10% Murata	GRM155R61A105KE11D	capacitors.SVNDblib	Murata	GRM155R61A105KE11D	Digi-Key	490-10019-1-ND	Mouser	81-GRM155R61A105KE11D	3
6.	C3, C14, C15, C18, C20	100 nF	MLC capacitor 100nF 50V X7R 10% Murata	GRM155R71H104KE4D	capacitors.SVNDblib	Murata	GRM155R71H104KE4D	Digi-Key	490-10700-1-ND	Mouser	81-GRM155R71H104KE4D	5
7.	C4	100 uF	MLC capacitor 100uF 50V CGO 5% Murata	GRM155SC1H101JA1D	capacitors.SVNDblib	Murata	GRM155SC1H101JA1D	Digi-Key	490-5922-1-ND	Mouser	81-GRM155SC1H101JA1D	1
8.	C5	4u7	MLC capacitor 4u7 25V X5R 10% Murata	GRM188R61E475KE15D	capacitors.SVNDblib	Murata	GRM188R61E475KE15D	Mouser	81-GRM188R61E475KE15D	Murata	GRM188R61E475KE15D	1
9.	C8	2u2	MLC capacitor 2u2 35V X5R 10% Murata	GRM155R61A225KE11D	capacitors.SVNDblib	Murata	GRM155R61A225KE11D	Murata	GRM155R61A225KE11D			1
#	C10	1p8	MLCC capacitor 1.8pF 50V COG ±0.25pF Murata	GRM155SC1H1R8CA01D	capacitors.SVNDblib	Murata	GRM155SC1H1R8CA01D	Digi-Key	490-5898-1-ND	Mouser	81-GRM155SC1H1R8CA01D	1
#	C11, C12	1p5	MLC capacitor 1p5 50V COG ±0.1pF Murata	GRM155SC1H1R5CB01D	capacitors.SVNDblib	Murata	GRM155SC1H1R5CB01D	Digi-Key	490-8087-1-ND	Mouser	81-GJM155SC1H1R5CB01D	2
#	C13	100 nF	MLC capacitor 100nF 25V X5R 10% Murata	GRM155R61E104KA87D	capacitors.SVNDblib	Murata	GRM155R61E104KA87D	Digi-Key	490-5920-1-ND	Mouser	81-GRM155R61E104KA87D	1
#	CON1	FTSH-105-01-F-DV-K	SMD vertical male header 2x5pins 1.27mm Samtec	FTSH-105-01-F-DV-K	connectors.SVNDblib	Samtec	FTSH-105-01-F-DV-K	Digi-Key	SAM8796-ND	Samtec	FTSH-105-01-F-DV-K	1
#	D1	APHD1608LZGCK	1.6x0.8x0.65mm SMD green LED Kingbright	APHD1608LZGCK	diodes.SVNDblib	Kingbright	APHD1608LZGCK	Digi-Key	754-2036-1-ND	Mouser	604-APHD1608LZGCK	1
#	L1	2u2	Wound Chip inductor 2u2 0603 Taiyo Yuden	CBMF1608T2R2M	inductors.SVNDblib	Taiyo Yuden	CBMF1608T2R2M	Digi-Key	587-1718-1-ND	Mouser	963-CBMF1608T2R2M	1
#	L2	1n	Multilayer RF inductor 1n 0402 Murata	LOG15HS1N0C02D	inductors.SVNDblib	Murata	LOG15HS1N0C02D	Digi-Key	490-15105-1-ND	Mouser	81-LQG15HS1N0C02D	1
#	L3	1n8	Multilayer RF inductor 1n8 0402 Murata	LOG15HS1N8S02D	inductors.SVNDblib	Murata	LOG15HS1N8S02D	Digi-Key	490-2613-1-ND	Mouser	81-LQG15HS1N8S02D	1
#	L4	3 nH	Multilayer RF inductor 3n 0402 Murata	LOG15HS3N0S02D	inductors.SVNDblib	Murata	LOG15HS3N0S02D	Digi-Key	490-6570-1-ND	Mouser	81-LQG15HS3N0S02D	1
#	PB1	BLT8-300-3.0	PTH metal dome pushbutton top actuated 8mm CMD Manufacture	BLT8-300-3.0	switches.SVNDblib	CMD Manufacture Co.	BLT8-300-3.0	CMD Manufacture Co.	BLT8-300-3.0			1
#	R1	10k	SMD thick film resistor 10k 0402 1% 100 mW Panasonic	ERJ2RF1002X	resistors.SVNDblib	Panasonic	ERJ2RF1002X	Farnell	2302739	Mouser	667-ERJ-2RFK1002X	1
#	R2	0R	SMD thick film resistor 0R 0402 1A Panasonic	ERJ2GE0R00X	resistors.SVNDblib	Panasonic	ERJ2GE0R00X	Farnell	2059190	Mouser	667-ERJ-2GEU0R00X	1
#	R3	100k	SMD thick film resistor 10k 0402 1% 100 mW Panasonic	ERJ2RF1002X	resistors.SVNDblib	Panasonic	ERJ2RF1002X	Farnell	2302829	Mouser	667-ERJ-2RFK1002X	1
#	R4	3k	SMD thick film resistor 3k 0402 1% 100 mW Panasonic	ERJ2RF3001X	resistors.SVNDblib	Panasonic	ERJ2RF3001X	Farnell	2302686	Mouser	667-ERJ-2RFK3001X	1
#	U1	NCH-RSL10-101Q48-ABG	RSL10: Radio SoC, Bluetooth® 5 Certified IC ON Semiconductor	NCH-RSL10-101Q48-ABG	ics.SVNDblib	ON Semiconductor	NCH-RSL10-101Q48-ABG	Digi-Key	NCH-RSL10-101Q48-ABGOSCT-ND	Mouser	863-NCHRSL1010Q48ABG	1
#	U2, U3	FPF1005	IntelliMAX™ Advanced Load Management Products ON Semiconductor	FPF1005	ics.SVNDblib	ON Semiconductor	FPF1005	Digi-Key	FPF1005CT-ND	Mouser	512-FPF1005	2
#	U4	MC3635	3-axes ultra-low power accelerometer Memsic Inc.	MC3635	ics.SVNDblib	Memsic	MC3635	Digi-Key	2548-MC3635CT-ND	Mouser	498-MC3635	1
#	U5	BMF390L	Digital pressure sensor Bosch Sensortec	BMF390L	ics.SVNDblib	Bosch Sensortec	BMF390L	Digi-Key	828-BMF390LCT-ND	Mouser	262-BMF390L	1
#	X1	48 MHz	XTAL 48MHz 15ppm 8pF IQD	LFXTAL069528	oscillators.SVNDblib	IQD	LFXTAL069528	Digi-Key	1923-1590-1-ND	Mouser	449-LFXTAL069528REEL	1
#	X2	32.768 kHz 20ppm	XTAL 32.768kHz 20ppm 12.5pF ECS Inc.	FC-12M 32.7680KA-A5	oscillators.SVNDblib	ECS Inc.	FC-12M 32.7680KA-A5	Digi-Key	SER4080TR-ND	Mouser	732-FC-12M32.768KAAS	1