



Bill of Materials for the US-SIGFOX-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1		12pF	5%	C0402	Murata Electronics North America	GRM1555C1E120JA01D		Yes
C2	1		10nF	10%	C0402	Murata Electronics North America	GRM155R71E103KA01D		Yes
C3	1		10nF	10%	C0402	Murata Electronics North America	GRM155R71E103KA01D		Yes
C4	1		12pF	5%	C0402	Murata Electronics North America	GRM1555C1E120JA01D		Yes
C5	1		10nF	10%	C0402	Murata Electronics North America	GRM155R71E103KA01D		Yes
C6	1		10nF	10%	C0402	Murata Electronics North America	GRM155R71E103KA01D		Yes
C7	1		10nF	10%	C0402	Murata Electronics North America	GRM155R71E103KA01D		Yes
C8, C10, C12	3		4.7uF	10%	C0603	Murata Electronics North America	GRM188R60J475KE19J		Yes
C11	1		100pF	5%	C0402	Murata Electronics North America	GRM1555C1H101JA01D		Yes
C100	1		100pF	5%	C0402	Murata Electronics North America	GRM1555C1H101JA01D		Yes
C101	1		100pF	5%	C0402	Murata Electronics North America	GRM1555C1H101JA01D		Yes
C102	1		10nF	10%	C0402	Murata Electronics North America	GRM155R71E103KA01D		Yes
C103	1		4.7uF	10%	C0603	Murata Electronics North America	GRM188R60J475KE19J		Yes
C105	1		100pF	5%	C0402	Murata Electronics North America	GRM1555C1H101JA01D		Yes
C13	1		NC						Yes
CB1	1		NC		C0402				Yes
CB2	1		2.7pF	0.1pF	C0402	Murata Electronics North America	GRM1555C1H2R7BA01D		Yes
CC1	1		NC		C0402				Yes
CC2	1		NC		C0402				Yes
CC3	1		NC		C0402				Yes
CH1	1		3pF		C0402	Murata Electronics North America	GRM1555C1H3R0BA01J		Yes
CH2	1		4.3pF	0.1pF	C0402	Murata Electronics North America	GRM1555C1H4R3BA01D		Yes
CH3	1		3pF		C0402	Murata Electronics North America	GRM1555C1H3R0BA01J		Yes
CH4	1		NC		C0402				Yes
CH5	1		NC		C0402				Yes
CLF	1		39pF	5%	C0402	Murata Electronics North America	GRM1555C1H390JA01D		Yes
CPA8	1		0Ohm		C0402	Panasonic	ERJ-2GE0R00X		Yes
CPA10	1		NC		C0402				Yes
CPA11	1		NC		C0402				Yes
CT3	1		2.2pF	0.1pF	C0402	Murata Electronics North America	GRM1555C1H2R2BA01D		Yes
LB1	1		12nH	2%	L0402	Murata Electronics North America	LQW15AN12NG00D		Yes
LB2	1		12nH	2%	L0402	Murata Electronics North America	LQW15AN12NG00D		Yes
LC1	1		18nH	2%	L0402	Murata Electronics North America	LQW15AN18NG00D		Yes
LC2	1		18nH	2%	L0402	Murata Electronics North America	LQW15AN18NG00D		Yes
LC3	1		18nH	2%	L0402	Murata Electronics North America	LQW15AN18NG00D		Yes
LED1	1		green		LED0603	Würth Electronic	710-150060GS75000		Yes
LH1	1		6.8nH	2%	L0402	Murata Electronics North America	LQW15AN6N8G00D		Yes
LH2	1		6.8nH	2%	L0402	Murata Electronics North America	LQW15AN6N8G00D		Yes
LPA1	1		3.3nH	0.2nH	L0402	Murata Electronics North America	LQW15AN3N3C80D		Yes
LPA2	1		6.2nH	0.2nH	L0402	Murata Electronics North America	LQW15AN6N2C00D		Yes
LPA4	1		NC		L0402				Yes
LT3	1		16nH	2%	L0402	Murata Electronics North America	LQW15AN16NG00D		Yes
LVCO	1		0OHM		L0402	Panasonic	ERJ-2GE0R00X		Yes
Q1	1		32.768kHz		TF20	NDK (Nihon Dempa Kogyo Co. Ltd)	NX2012SA 32.768kHz EXS00A-MU00788		Yes
Q2	1		48MHz		X2520	NDK (Nihon Dempa Kogyo Co. Ltd)	NT2016SA 48 MHz END4910A		Yes
R1	1			220	5%	R0402	Yaeko	RC0402JR-07220RL	Yes
R2	1		2.7k		5%	R0402	Yaeko	RC0402JR-072K7L	Yes
R3	1		600BEAD			R0402	Murata Electronics North America	BLM15AG601SN1D	Yes
R4	1			0	5%	R0402	Yaeko	RC0402JR-070RL	Yes
R5	1		NC			R0402			Yes
R6	1		12k		5%	R0402	Yaeko	RC0402JR-0712KL	Yes
R7	1			180	5%	R0402	Yaeko	RC0402JR-07180RL	Yes
R8	1			68	5%	R0402	Yaeko	RC0402JR-0768RL	Yes
R9	1			68	5%	R0402	Yaeko	RC0402JR-0768RL	Yes
R10	1		0 Ohm		5%	R0402	Yaeko	RC0402JR-070RL	Yes
R11	1		NC			R0402			Yes
R12,R13,R14, R17	4		10k			R0603	Vishay	CRCW060310K0FKEA	Yes
R16	1		100 Ohm			R0603	Panasonic	ERJ-3GEYJ101V	Yes
R15	1		0 Ohm			R0603	Panasonic	ERJ-3GEY0R00V	Yes
S1	1		TASTER4-PAD-SMD-SMALL			TASTER SMALL SMD 4PAD	C&K	PTS810 SJK 250 SMD LFS	Yes
TP1	1		TP03			PIN-03			Yes
TP2	1		TPTP10R			TP10R			Yes
TP3	1		TPTP10R			TP10R			Yes
TP4	1		TPTP10R			TP10R			Yes
TP5	1		TPTP10R			TP10R			Yes

TP6	1		TP03		PIN-03				Yes
TP7	1		TP03		PIN-03				Yes
TP8	1		TPTP10R		TP10R				Yes
TP9	1		TPTP10R		TP10R				Yes
TP10	1		TP03		PIN-03				Yes
TP11	1		TP03		PIN-03				Yes
TP12	1		TP03		PIN-03				Yes
TP13	1		TPTP10R		TP10R				Yes
TP14	1		TPTP10R		TP10R				Yes
TP15	1		TPTP10R		TP10R				Yes
US1	1		SHEET_A3		FRAME1				Yes
US2	1		RFX1010		QFN16_TH	Skyworks	RFX1010		Yes
U1	1		AX-SFUS-1-01-TB05		QFN40				Yes
X1	1		2 mm header			Molex	87759-1050		Yes
X2	1		SMA-SMD		SMA-SMD	Linx Technologies Inc.	CONSMSA002-SMD-G		Yes
X3	1		FAR-F5QA-915M00-M2AK-J		SAW 1.4X1.1X0.5	Taiyo Yuden	FAR-F5QA-915M00-M2AK-J		Yes
IC1	1		GPIO expander		QFN	ON Semiconductor	PCA9655EMTTXG	No	Yes
Q3	1		Transistor			ON Semiconductor	MMBT2222ALT1G	No	Yes
JP1	1		6 pin arduino header			Samtec			Yes
JP2, JP3	2		8 pin arduino header			Samtec			Yes
JP4	1		10 pin arduino header			Samtec			Yes
JP5	1		2 pin jumper header (2.54mm)			Würth Electronic	60900213421		Yes
S2	1		SMT switch			C&K Components	PTS645SM43SMTR92		Yes
Antenna	1		Antennas SMA Reduced Height 1/4 Wave Whip 868MHz			Linx Technologies	712-ANT-868-CW-RHSMA		Yes