

**S2-LP RF PCB STEVAL-FKI868V1 (860-940 MHz)
BOM**

Item	Quantity	Reference	Value	Note	Package	Manufacturer	Part Number
1	1	C9	100nF	Decoupling cap	SM/C_0402	Murata	GRM155R71C104KA88D
2	5	C3, C5, C7, C10, C30	470nF	Decoupling cap	SM/C_0402	Murata	GRM155R61A474KE15
3	1	C12	1uF	SMPS OUT filter cap	SM/C_0603	Murata	GRM188R60J105KA01D
4	1	C1	4.7uF	VBAT filter	SM/C_0603	Murata	GRM188R60J475KE19
5	12	C4, C6, C8, C11, C14, C16, C17, C21, C23, C31, C33, C35	100pF	VBAT bypass capacitors	SM/C_0402	Murata	GRM1555C1H101JZ01D
6	2	C19, C20	12pF	XTAL load cap (Xout)	SM/C_0402	Murata	GRM1555C1H120JZ01
7	2	C13, C18	1.5pF	RXP Balun shunt cap	SM/C_0402	Murata	GRM1555C1H1R5CZ01
8	1	C27	3.9pF	TX LPF third cap shunt	SM/C_0402	Murata	GRM1555C1H3R9BA01
9	1	C28	5.6pF	TX LPF third cap shunt	SM/C_0402	Murata	GRM1555C1H5R6DZ01
10	1	C24	1.2pF	TX LPF third cap shunt	SM/C_0402	Murata	GRM1555C1H1R2CZ01
11	1	C29	2.7pF	TX LPF third cap shunt	SM/C_0402	Murata	GRM1555C1H2R7CZ01
12	1	C25	470pF	VREFVCO filter	SM/C_0402	Murata	GRM1555C1H471JA01
13	2	C15, C26	Not assembled	TX LPF first cap shunt	SM/C_0402		
14	4	C2, C22, C32, C34	150nF	Filter	SM/C_0402	Murata	GRM155R61A154KE19
15	1	J1	RF_IN/OUT	SMA Jack Assembly, End Launch	SMA-LAT	Emerson	142-0701-881
16	1	L4	27 nH	TX LPF first series ind	SM/L_0402	Murata	LQG15HS27NJ02
17	1	L2	10uH	SMPS out inductor	SM/L_0805	Murata	LQM21FN100M70L
18	2	L3, L5	18nH	TX LPF third series ind	SM/L_0402	Murata	LQG15HS18NJ02
19	2	L1, L6	0R0 (resistor)	TX LPF first series ind	SM/L_0402	Tyco Electronics	CRG0402ZR
20	1	L7	12nH	TX choke	SM/L_0603	Murata	LQG18HN12NJ00
21	1	L8	4.3nH	SMPS out inductor	SM/L_0402	Murata	LQW15AN4N3G00
22	1	L9	6.2nH	Additional notch filter ind	SM/L_0402	Murata	LQW15AN6N2G00
23	1	L10	5.6nH	SMPS out inductor	SM/L_0805	Murata	LQW15AN5N6G00
24	3	R1, R2, R3	100k		SM/R_0402	Tyco Electronics	CRG0402F100K
25	7	R6, R9, R17, R18, R19, R20, R22	Not assembled		SM/R_0402	Tyco Electronics	
26	11	R4, R5, R7, R10, R11, R12, R13, R14, R15, R16, R21	0R0 (resistor)		SM/R_0402	Tyco Electronics	CRG0402ZR
27	1	CN1	Extra-long 10 pins female-male strip	female side mounted to the top	2.54 mm pitch	4UCON	18688
28	2	CN2, CN3	Extra-long 8 pins female-male strip	female side mounted to the top	2.54 mm pitch	4UCON	18688
29	1	CN4	Extra-long 6 pins female-male strip	female side mounted to the top	2.54 mm pitch	4UCON	18688
30	1	JP1	HEADER 1X2	Male Strip 1X2, 100 mils	WALCON.100/VH/T M20E/W.325/10/ MOD		
31	1	Vsmgs_ext	Not assembled	Test point	TP		
32	1	U1	EEPROM	Memory	SO8N	STMicroelectronics	M95640-RMN6
33	1	U2	S2-LP	RF IC	QFN20_REV3	STMicroelectronics	
34	1	Y1	50 MHz	XTAL	NX1612SA	NDK	NX1612SA 50MHz EXS00A-CS08403
35	1		ANT-900MR Right angle	868-915MHz Flexible Whip Antenna		LPRS	
36	1		Nucleo-L152RE			STMicroelectronics	

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