

Document reference:	PCB reference:
STEVAl-IKR002V4D - SPIRIT1 RF PCB 868 MHz	
Company: STMicroelectronics	

Item	Quantity	Reference	Part / Value	Note	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	868 MHz
1	2	C0, C16	C_100n_0402_X7R	Decoupling cap on VREG (pin # 17)	SM/C_0402	Murata	GRM155R71C104KA88D	100nF
2	1	C1	C_TBD_0402_C0G	TX LPF first cap shunt	SM/C_0402			NE
3	1	C2	C_TBD_0402_C0G	TX LPF second cap shunt	SM/C_0402	Murata	GRM1555C1H8R2DZ01	8.2pF
4	1	C3	C_TBD_0402_C0G	TX LPF third cap shunt	SM/C_0402	Murata	GRM1555C1H5R6DZ01	5.6pF
5	1	C4	C_TBD_0402_C0G	RXP Balun shunt cap	SM/C_0402	Murata	GRM1555C1H2R2CZ01	2.2pF
6	1	C14	C_TBD_0402_C0G	Additional notch filter cap	SM/C_0402	Murata	GRM1555C1H1R2CZ01	1.2pF
7	1	C15	C_TBD_0402_C0G	PA load capacitor	SM/C_0402			NE
8	1	C5	C_TBD_0402_C0G	RXN Balun series	SM/C_0402	Murata	GRM1555C1H1R8CZ01	1.8pF
9	3	C6, C7, C8	C_TBD_0402_C0G	DC block for RX	SM/C_0402	Murata	GRM1555C1H221JA01	220pF
10	1	C9	C_12P_0402_C0G	XTAL load cap (Xout)	SM/C_0402	Murata	GRM1555C1H120JZ01	12pF
11	1	C10	C_10P_0402_C0G	XTAL load cap (Xin)	SM/C_0402	Murata	GRM1555C1H100JZ01	10pF
12	1	C20	C_1U_0603_X7R	VBAT & SMPS OUT filter cap	SM/C_0603	Murata	GRM188R60J105KA01D	1uF
13	1	C11	C_1U_0603_X7R	VBAT & SMPS OUT filter cap	SM/C_0603	Murata	GRM188R60J474KA01D	470nF
14	1	C12	C_100n_0402_X7R	SMPS OUT filter cap	SM/C_0402	Murata	GRM155R71C104KA88D	100nF
15	1	C13	C_TBD_0402_X7R	SMPS OUT filter cap	SM/C_0402	Murata	GRM1555C1H331JA01D	330pF
16	1	C19	C_TBD_0402_C0G	VBAT filtering	SM/C_0402	Murata	GRM155R71C103KA01	10nF
17	1	C21	C_100p_0402_C0G	VBAT bypass capacitors	SM/C_0402	Murata	GRM1555C1H101JZ01D	100pF
18	1	C22	C_330p_0402_C0G	Decoupling cap on VREG (pin # 17)	SM/C_0402	Murata	GRM1555C1H331JA01D	330pF

19	1	J1	RF_IN/OUT	SMA Jack Assembly, End Launch	SMA-LAT	Emerson	142-0701-881	
20	2	J6, J7	HEADER 5X2	Male Strip 2X5, 100 mils, BOTTOM MOUNT	WALCON.100/VH/T M2OE/W.325/10/ MOD			
21	1	D0	L_TBD_0402	TX PA choke	SM/L_0402	Murata	LQG15HSR10J02	100nH
22	1	L1	L_TBD_0402	TX LPF first series ind	SM/L_0402	Murata	LQG15HN3N0S02	3nH
23	1	L2	L_TBD_0402	TX LPF second series ind	SM/L_0402	Tyco Electronics	CRG0402ZR	OR0 (resistor)
24	1	L3	L_TBD_0402	TX LPF third series ind	SM/L_0402	Murata	LQG15HN4N3S02	4.3nH
25	2	L4, L5	L_TBD_0402	RXP-N Balun series ind	SM/L_0402	Murata	LQG15HN18NJ02	18nH
26	1	L6	L_TBD_0402	RX Balun compensation ind	SM/L_0402	Murata	LQG15HN22NJ02	22nH
27	1	L8	L_TBD_0402	SMPS out inductor	SM/L_0402	Coilcraft	0402CS-27N	27nH
28	1	L9	L_TBD_0402	Additional notch filter ind	SM/L_0402	Murata	LQG15HN2N7S02	2.7nH
29	1	L7	L_10U_0805	SMPS out inductor	SM/L_0805	Murata	LQM21FN100M70L	10uH
30	1	R6	R_ORO_0402	USED TO IDENTIFY BAND: mount only 1 OR0 resistor according to assembly options	SM/R_0402	Tyco Electronics		NE
31	1	R7	R_ORO_0402		SM/R_0402	Tyco Electronics		NE
32	1	R8	R_ORO_0402		SM/R_0402	Tyco Electronics		NE
33	1	R9	R_ORO_0402		SM/R_0402	Tyco Electronics	CRG0402ZR	OR0
34	1	R10	R_ORO_0402		SM/R_0402	Tyco Electronics		NE
35	3	R12, R13, R14	R_ORO_0402		SM/R_0402	Tyco Electronics	CRG0402F100K	100k
36	1	U1	SPIRIT1	RF IC	QFN20_REV3	STMicroelectronics		
37	1	U2	HEADER 1X2	Male Strip 1X2, 100 mils	WALCON.100/VH/T M2OE/W.325/10/ MOD			
38	1	U3	EEPROM	Memory	SO8N	STMicroelectronics	M95640-RMN6P	
39	1	Y1	XTAL	XTAL	XTAL_32_25_REV2	NDK	NX3225GA 50MHz EXS00A- CG03244 or NX3225GA 52MHz EXS00A-CG03547	50 or 52 MHz