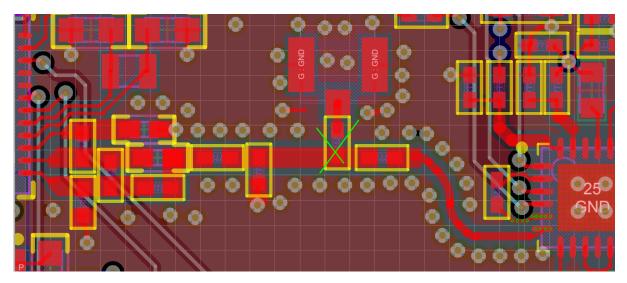
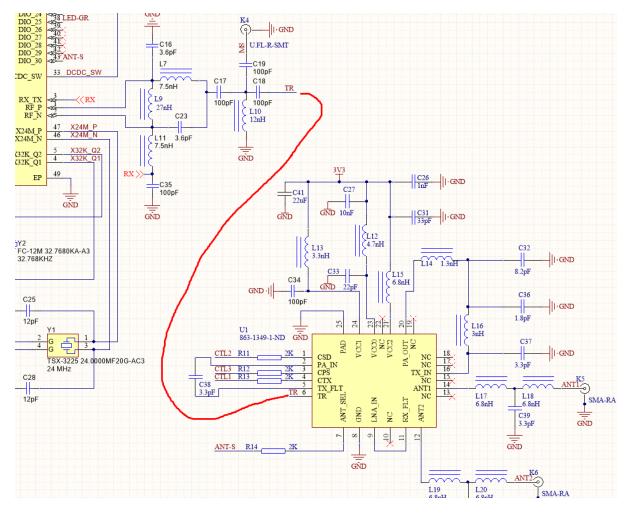
Stackup:

		Layer Name	Туре	Material	Thickness (mm)	Dielectric Material
		Top Overlay	Overlay			
		Top Solder	Solder Mask/Co	Surface Material	0.0254	Solder Resist
		Top Layer	Signal Copper		0.035	
		Dielectric 1	Dielectric Prepreg		0.2	
		Signal Layer 1	Signal Copper		0.035	
		Dielectric 3	Dielectric	Core	1	FR4
		Signal Layer 2	Signal	Copper	0.035	
		Dielectric 2	Dielectric	Prepreg	0.2	
		Bottom Layer	Signal	Copper	0.035	
		Bottom Solder	Solder Mask/Co	Surface Material	0.0254	Solder Resist
/		Bottom Overlay	Overlay			
PW calculation: TXLINE 2003) Material Parameters Dielectric Gaa		▼ Conductor	six		[+G→]•	-₩→I ↓
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant	4.6	Conductor Conductivity	Silver 1	S/m V	+G→ + 	-₩→I ↓ s _r T
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant Loss Tangent		=	8.88E+07	AWB	 +G→ € 	-₩→ <u>↓</u> s _r T
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant Loss Tangent		=	8.88E+07	S/m S/m ysical Characteristi	 +G→ + 	-₩→ <u>↓</u> ε _r †
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant Loss Tangent		=	8.88E+07	AWB	 + + +	-₩
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant Loss Tangent Electrical Characteristic Impedance	0.0 005	Conductivity	8.88E+07	ysical Characteristi		
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant Loss Tangent Electrical Characteristic Impedance Frequency	0.0005 s 49.9214 915	Conductivity Ohms MHz	8.88E+07	ysical Characteristi nysical Length (L) Width (W)	10 0.33	
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant Loss Tangent Electrical Characteristic Impedance Frequency Electrical Length	0.000000000000000000000000000000000000	Conductivity Ohms MHz deg	8.88E+07	ysical Characteristi nysical Length (L) Width (W) Gap (G)	10 0.33 0.3	
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant Loss Tangent Electrical Characteristic <u>Impedance</u> Frequency <u>Electrical Length</u> Phase Constant	0.0005 49.9214 915 19.5771 1957.71	Conductivity Ohms MHz	8.88E+07	ysical Characteristi ysical Length (L) Width (W) Gap (G) Height (H)	10 0.33 0.3 0.2	
TXLINE 2003) Material Parameters Dielectric Gaa Dielectric Constant Loss Tangent Electrical Characteristic Impedance Frequency Electrical Length	0.000000000000000000000000000000000000	Conductivity Ohms MHz deg	8.88E+07	ysical Characteristi ysical Length (L) Width (W) Gap (G) Height (H)	10 0.33 0.3	



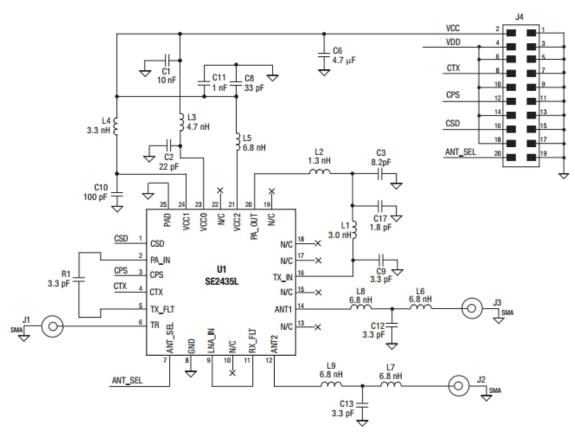
(solid ground plane on second layer; "light blue line is layer 3)

The 100 pF blocking cap is NC in the board design.



Skyworks reference schematic:

DATA SHEET • SE2435L: 860 TO 930 MHZ HIGH-POWER RF FRONT-END MODULE



Note: Discard N/C pins that are connected to ground on the Evaluation Board.

ts038

Figure 10. Evaluation Board Schematic for 915 MHz Application and FCC Conducted Harmonics Rejection Compliant

I verified the PA settings (CTX; CPS; CSD; ANT_SEL) levels before transmitting with a multimeter.

Mode	CPS	CSD	СТХ	ANT_SEL
Sleep (all off)	0	0	0	x
Receive or transmit bypass	0	1	0	x
Receive LNA mode	1	1	0	x
Transmit	X	1	1	х
ANT1 port enabled	X	X	X	0
ANT2 port enabled	X	x	X	1

Table 6. SE2435L Electrical Specifications: Mode Control Logic (TA = +25)

Note 1: "1" = 1.6 to Vcc, "0" = 0 to 0.3 V, "X" = don't care.

