

High Frequency Ceramic Solutions

868/915MHz Impedance Matched, Multi-Function, Integrated Ceramic Passive Component for Texas Instruments CC112x, CC117x & CC12xx Chipsets

P/N 0900PC15J0013

Detail Specification: 3/17/2016

Page 1 of 5

General Specifications

Operating Temperature	-40 to +85°C
Reel Quantity	4,000
Recommended Storage Conditions	+5 ~ +35°C, Humidity: 45~75%RH, 18 mos. Max

RF Specifications

Tx Mode	Oper. Frequency	TX-ANT	868 ~ 928MHz
	Insertion Loss		2.0 dB max.
	Attenuation (min.)		35.0 min. @ 2 × fo MHz
	Attenuation (min.)		35.0 min. @ 3 × fo MHz
	Attenuation (min.)		35.0 min. @ 4 × fo MHz
	Attenuation (min.)		35.0 min. @ 5 × fo MHz
Rx Mode	Return Loss	RX & ANT	9.5 dB min.
	Oper. Frequency		868~928 MHz
	Insertion Loss		2.5 dB max.
	Phase Diff. (deg)		180±15
	Amp. Diff.		2.0 dB max.
	Return Loss		9.5 dB min.

Mechanical Dimensions

	In	mm
L	0.079 ± 0.008	2.00 ± 0.20
W	0.049 ± 0.008	1.25 ± 0.20
T	0.039 max.	1.0 max.
a	0.010 ± 0.004	0.25 ± 0.10
b	0.012 ± 0.006	0.30 ± 0.15
c	0.008 +.004/-0.006	0.20 +0.1/-0.15
p	0.020 ± 0.004	0.50 ± 0.10

Terminal Configuration for CC12XX and CC112X

No.	Function	
1	LNA_N	6 GND
2	LNA_P	7 ANT
3	TRX	8 GND
4	PA	9 GND
5	GND	10 GND

Part Number Explanation

Packing Style	Bulk	Suffix = S	Eg. 0900PC15J0013S
	T & R	Suffix = E	Eg. 0900PC15J0013E
Termination style	T & R (Reverse)	Suffix = R	Eg. 0900PC15J0013R
	100% Tin	Suffix = None	Eg. 0900PC15J0013(E/R/S)
	Tin / Lead	Please Consult Factory	

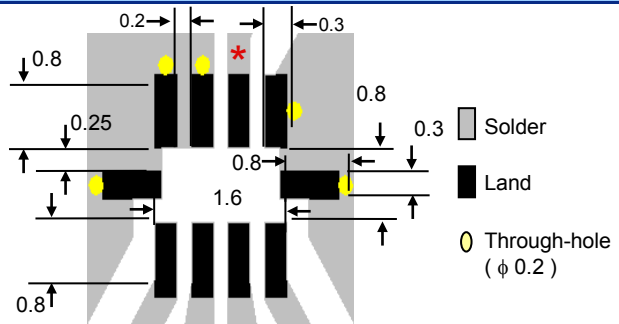
Go to page 5 for more details

Mounting Considerations

* Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness

Gerbers links available for download on page 20 of CC112x, CC117x & CC12xx Design Note DN039:

www.johansontechnology.com/datasheets/highly-integrated-passive-components/swra407.pdf



Units: mm

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High Frequency Ceramic Solutions

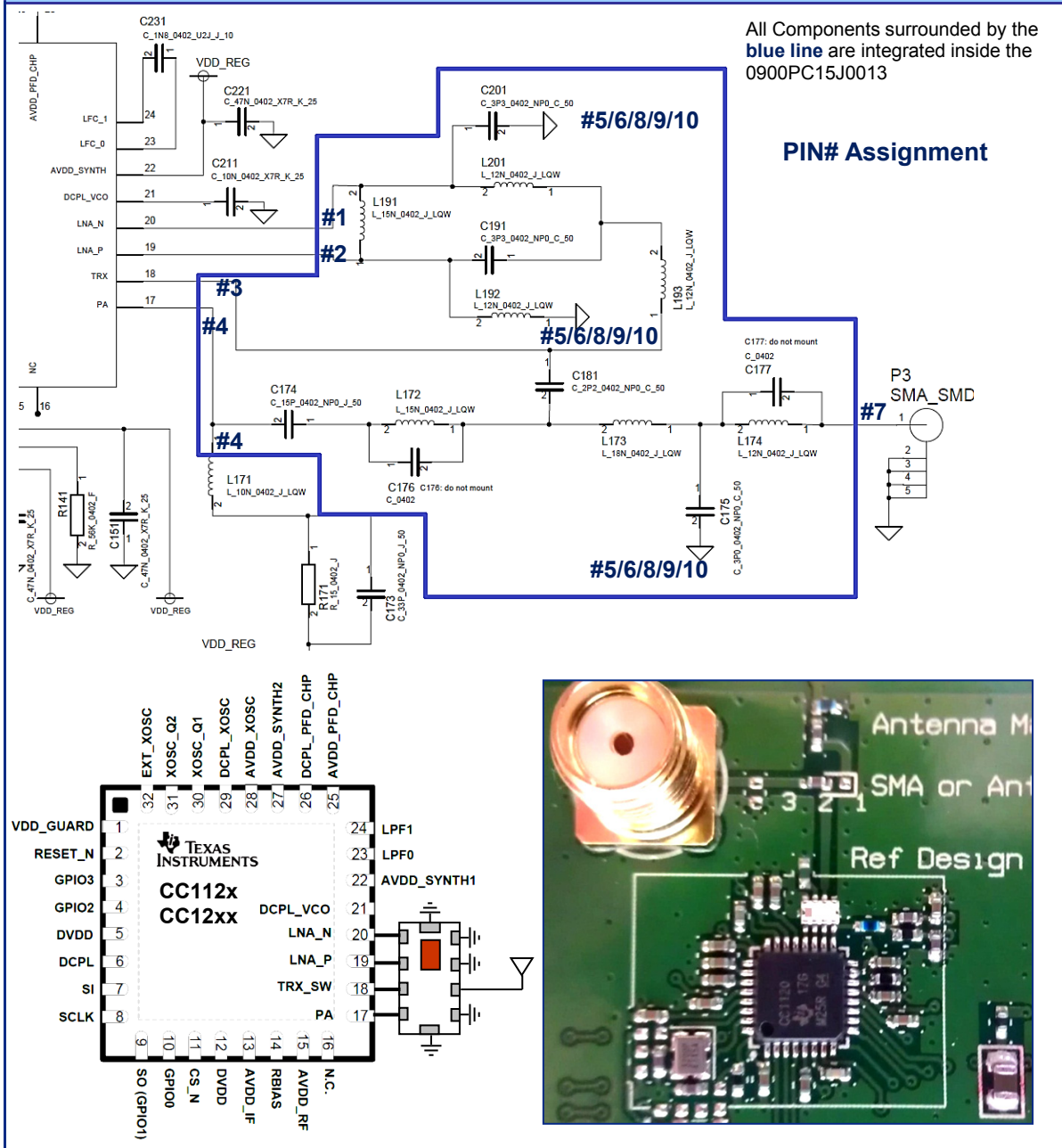
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Page 2 of 5

Circuit Schematic and Application



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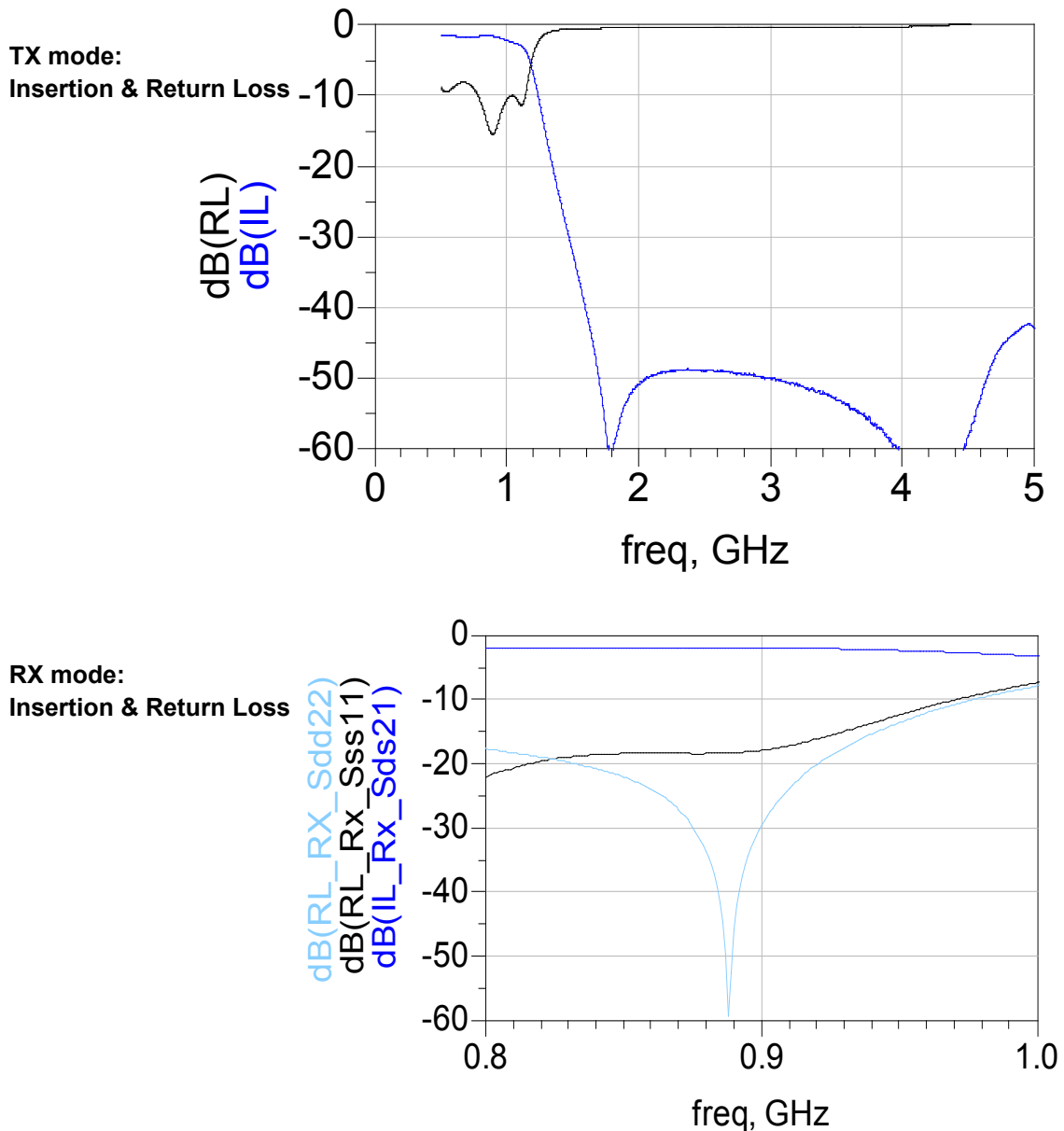
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Page 3 of 5

Typical Electrical Performance (T=25°C)



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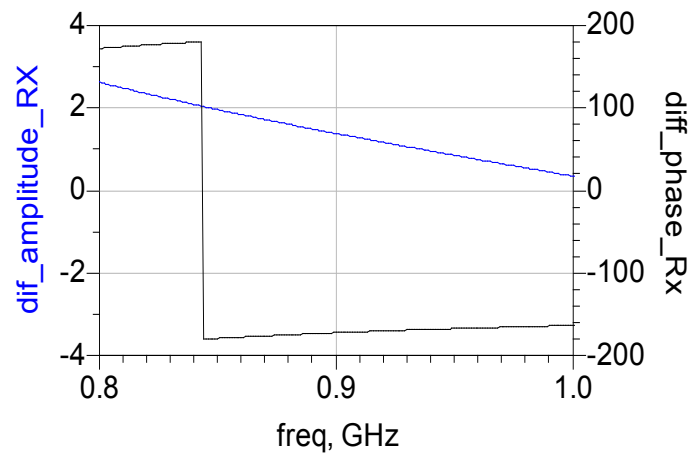
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Detail Specification: 3/17/2016

4 of 5

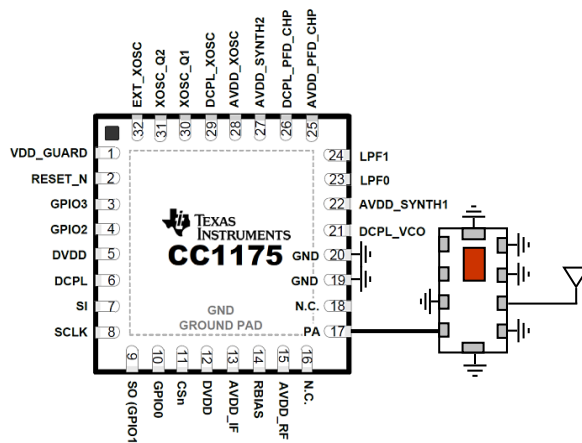
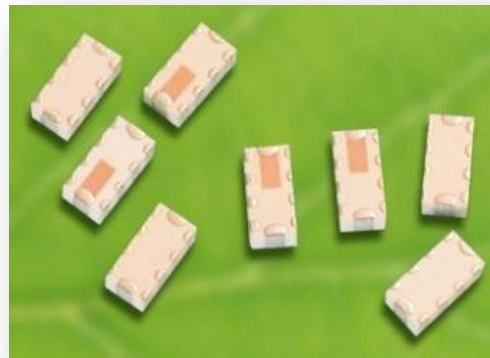
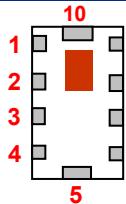
Typical Electrical Performance (T=25°C)

Amplitude & Phase Balance



Terminal Configuration for CC1175

No.	Function	No.	Function
1	NC or GND	6	GND
2	NC or GND	7	ANT
3	GND	8	GND
4	PA	9	GND
5	GND	10	GND



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