

High Frequency Ceramic Solutions

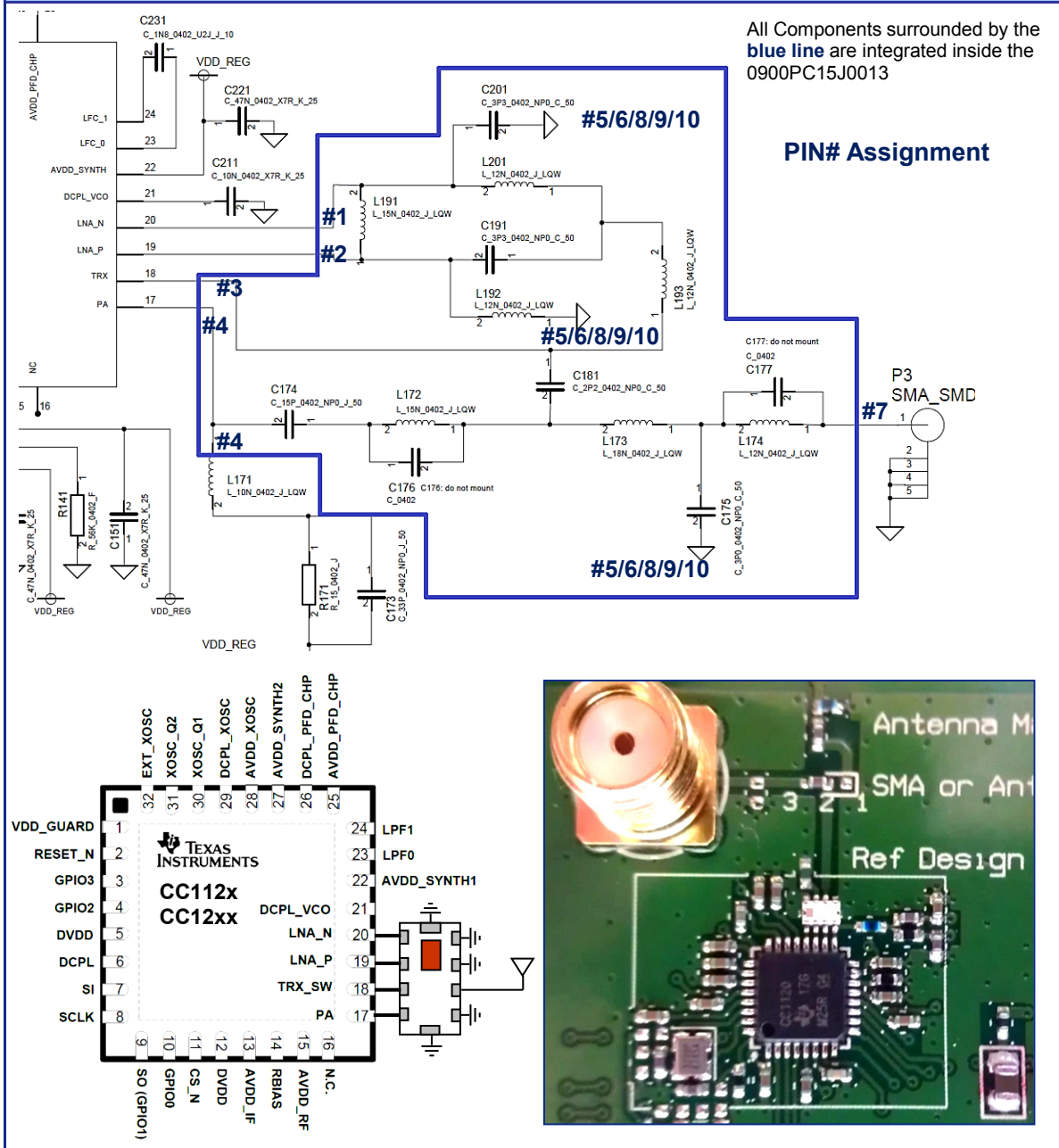
868/915MHz Impedance Matched, Multi-Function, Integrated Ceramic Passive Component for Texas Instruments CC112x, CC117x & CC12xx Chipsets

P/N 0900PC15J0013

Detail Specification: 3/17/2016

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Circuit Schematic and Application



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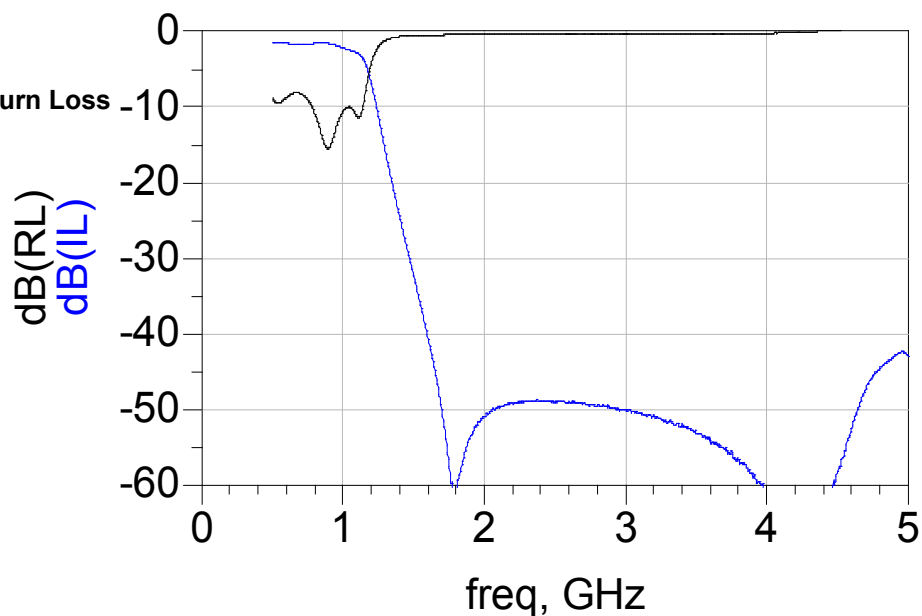
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Typical Electrical Performance (T=25°C)

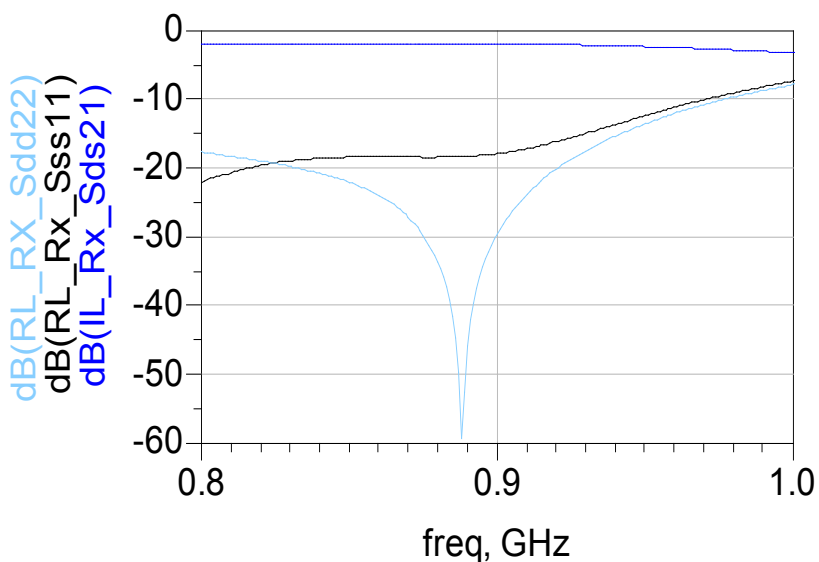
TX mode:

Insertion & Return Loss



RX mode:

Insertion & Return Loss



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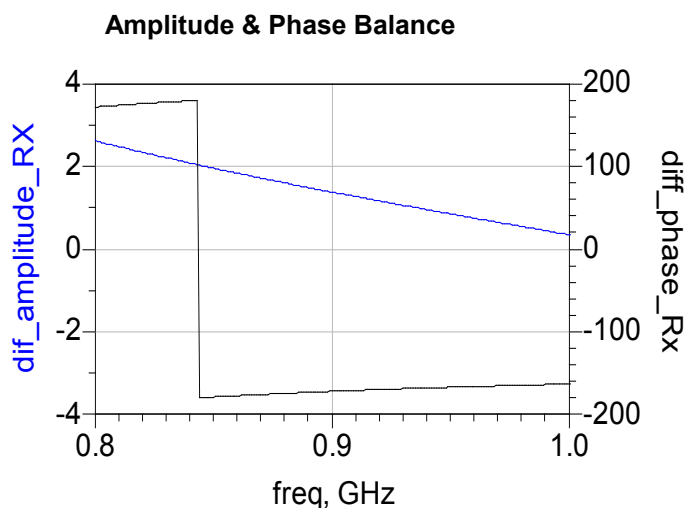
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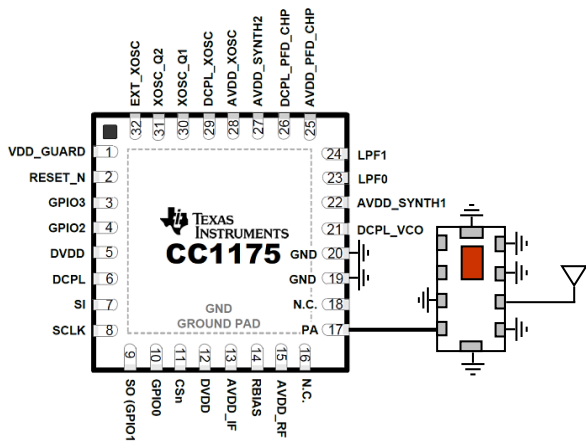
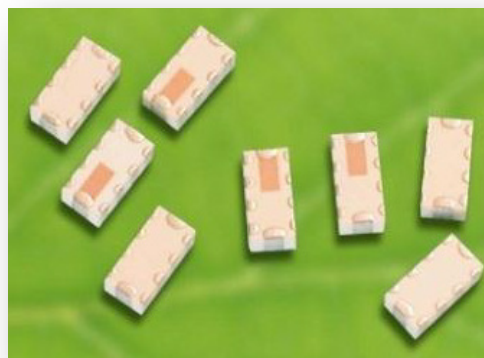
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Typical Electrical Performance (T=25°C)



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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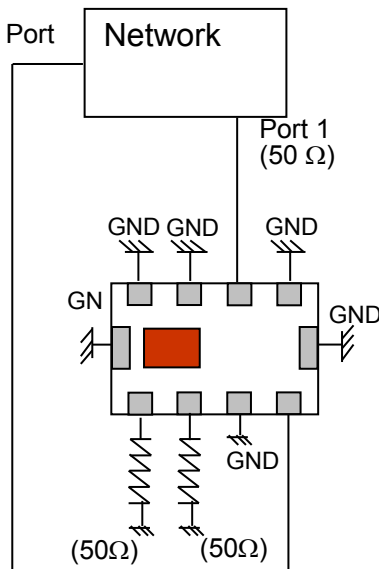
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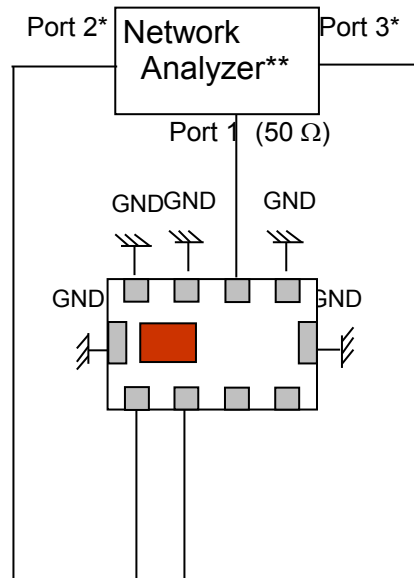
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Measuring Diagram



Tx :
 Port1: Antenna Port
 Port1 Terminate impedance: 50ohm
 Port2: PA Port
 Port2 Terminate impedance:
 Complex conjugate to impedance of T1
 CC112X PA pin
 $IL = S_{21}$
 $RL = S_{11} / S_{22}$
 **E5071B / C from Agilent



RX:
 Port 1: Antenna Port
 Port1 Terminate impedance: 50ohm
 Ports 2 and 3: Rx Balanced Port
 *Port 2 and 3 Terminate impedance : Complex
 conjugate to $1/2 \times$ (Balance impedance of T1
 CC112X LNA_N / LNA_P pins)
 $IL = S_{ds21}$
 $RL = S_{ss11} / S_{dd22}$
 $Amp_balance = dB(S(3,1)/S(2,1))$
 $Phase_balance = Phase(S(3,1)/S(2,1))$

Packaging information

<http://www.johansontechnology.com/tape-reel-packaging>

Soldering Information

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

RoHS Compliance

<http://www.johansontechnology.com/rohs-compliance>

MSL Info

<http://www.johansontechnology.com/msl-rating>

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