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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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

P/N 0900PC15J0013

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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					
	Oper. Frequency	TX-ANT	868 ~ 928MHz		
	Insertion Loss		2.0 dB max.		
Tx Mode	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		
	Return Loss	TX & ANT	9.5 dB min.		
	Oper. Frequency	RX-ANT	868~928 MHz		
Rx Mode	Insertion Loss		2.5 dB max.		
	Phase Diff. (deg)		180±15		
	Amp. Diff.		2.0 dB max.		
	Return Loss	RX & ANT	9.5 dB min.		

Detail Specification: 3/17/2016

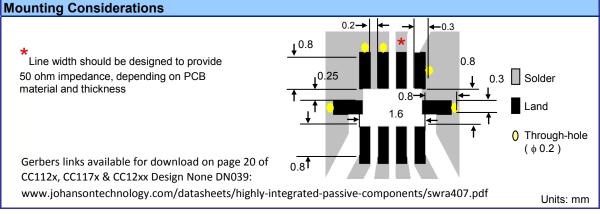


Ме	Mechanical Dimensions					
	In	mm				
L	0.079 ± 0.008	2.00 ± 0.20				
w	0.049 ± 0.008	1.25 ± 0.20				
Т	0.039 max.	1.0 max.				
а	0.010 ± 0.004	0.25 ± 0.10				
b	0.012 ± 0.006	0.30 ± 0.15				
c	0.008 +.004/006	0.20 +0.1/-0.15				
р	0.020 ± 0.004	0.50 ± 0.10				

Tern	Terminal Configuration for CC12XX and CC112X						
No.	Function			10			
1	LNA_N	6	GND				
2	LNA_P	7	ANT	2 🏳 📕 🗖 8			
3	TRX	8	GND	3 0 0 7			
4	PA	9	GND	4 0 _ 4 6			
5	GND	10	GND	5			

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

Go to page 5 for more details



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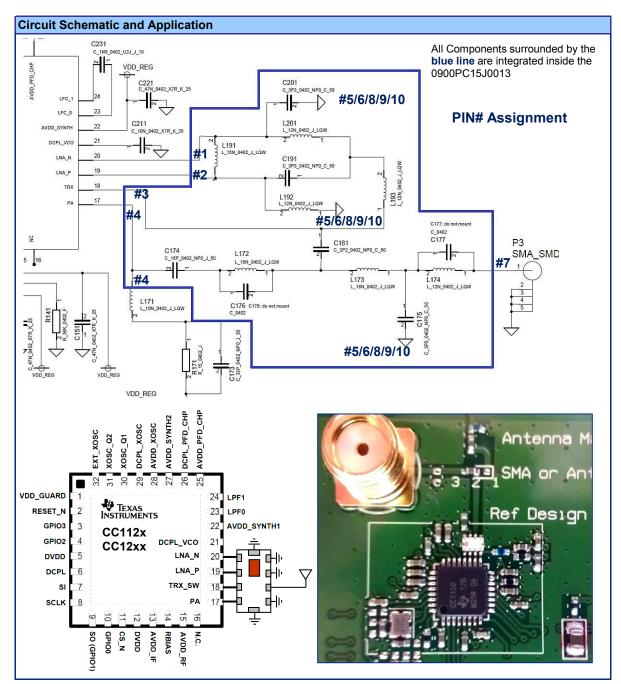
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868/915MHz Impedance Matched, Multi-Function, Integrated Ceramic Passive Component for Texas Instruments CC112x, CC117x & CC12xx Chipsets

P/N 0900PC15J0013

Detail Specification: 3/17/2016

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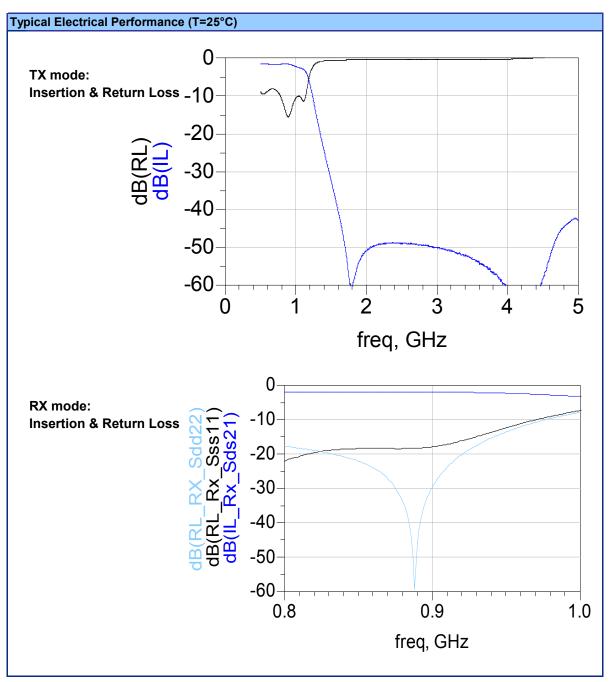
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Ver 4.4

868/915MHz Impedance Matched, Multi-Function, Integrated Ceramic Passive Component for Texas Instruments CC112x, CC117x & CC12xx Chipsets Detail Specification: 3/17/2016 P/N 0900PC15J0013

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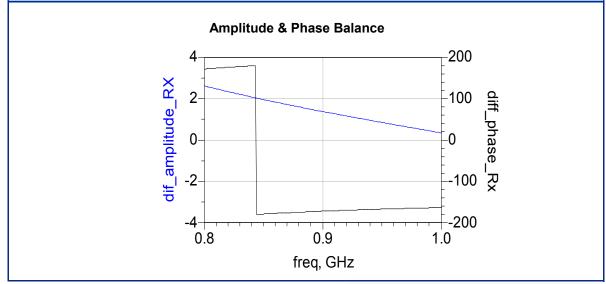
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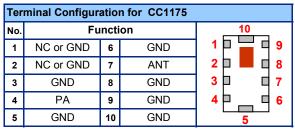
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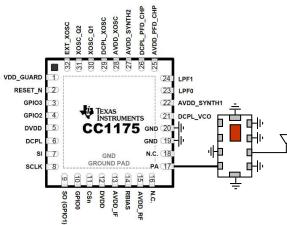
868/915MHz Impedance Matched, Multi-Function, Integrated Ceramic Passive Component for Texas Instruments CC112x, CC117x & CC12xx Chipsets Detail Specification: 3/17/2016 P/N 0900PC15J0013

4 of 5

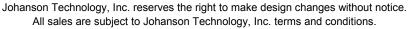
Typical Electrical Performance (T=25°C)













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Detail Specification: 3/17/2016

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Measuring Diagram Port 2* Port 3* Network Port Network Analyzer** Port 1 (50 Ω) Port 1 (50 Ω) GNDGND GND GND GND GND GND ĠND GN GŅD 8 1 2 GND (50Ω) **(50**Ω) Tx: RX: Port1: Antenna Port Port 1: Antenna Port Port1 Terminate impedance: 50ohm Port1 Terminate impedance: 50ohm Port2: PA Port Ports 2 and 3: Rx Balanced Port Port2 Terminate impedance: *Port 2 and 3 Terminate impedance : Complex Complex conjugate to impedance of TI conjugate to 1/2 x (Balance impedance of TI CC112X PA pin CC112X LNA N / LNA P pins) IL = S21 IL=Sds21 RL = S11 / S22 RL=Sss11 / Sdd22 **E5071B / C from Agilent 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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