

High Frequency Ceramic Solutions

915MHz Impedance Matched/Balun/BPF Integrated Component for T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430 **P/N 0915BM15A0001**

Detail Specification: 7/8/2014

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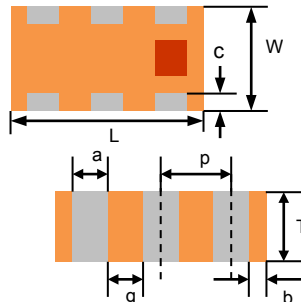
General Specifications			
Part Number	0915BM15A0001	Insertion Loss	2.0 dB max
Frequency (MHz)	902 - 928	Return Loss	9.5 dB min.
Unbalanced Impedance	50 Ω	Phase Difference	180° $\pm$ 15
Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430 Chipsets	Amplitude Difference	1.5 dB
		Input Power	1W max. (CW)
		Reel Quantity	4,000
Attenuation ¹	5 min. @ 745MHz	Operating Temperature	-40 to +105°C
	30 min. @ 1830MHz	Recommended Storage Conditions	+5 ~ +35 °C, Humidity 45~75%RH, 18 months. 1 week max after opened ²
	40 min. @ 2745MHz		
	45 min. @ 3660MHz		

¹Note: Band Pass Filtering included

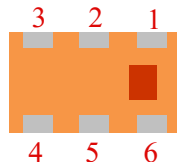
²For more info go to www.johansontechnology.com/silverlead

Part Number Explanation				
P/N Suffix	Packing Style	Bulk	Suffix = S	Eg. 0915BM15A0001S
		T & R	Suffix = E	Eg. 0915BM15A0001E
	Termination style	AgPt	Suffix = None	Eg. 0915BM15A0001(E or S)
	Evaluation Board	0915BM15A0001-EBSMA		

Mechanical Dimensions		
	In	mm
L	0.079 $\pm$ 0.004	2.00 $\pm$ 0.10
W	0.049 $\pm$ 0.004	1.25 $\pm$ 0.10
T	0.028 $\pm$ 0.004	0.70 $\pm$ 0.10
a	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
b	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
c	0.012 $\pm$ 0.004/-0.008	0.30 $\pm$ 0.1/-0.2
g	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
p	0.026 $\pm$ 0.002	0.65 $\pm$ 0.05



Terminal Configuration			
No.	Function	No.	Function
1	Unbalanced Port	4	Balanced Port ³
2	GND	5	GND
3	Balanced Port ³	6	GND



³Balanced ports are DC-Blocked from pins 1-2-5-6. Blocking capacitor is embedded, no need for external DC-Blocking cap at GND pins or unbalanced

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Ver 2.2

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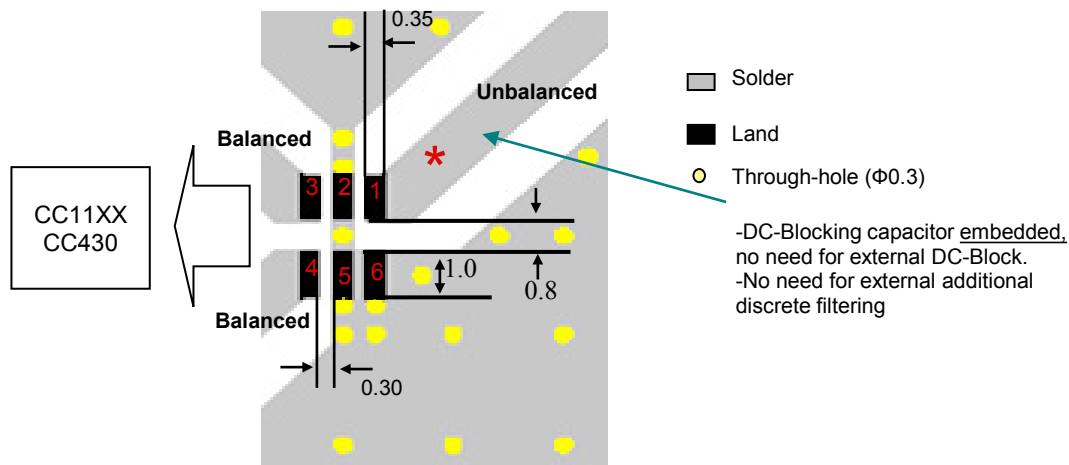
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Mounting Considerations

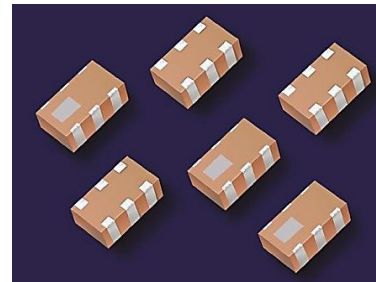
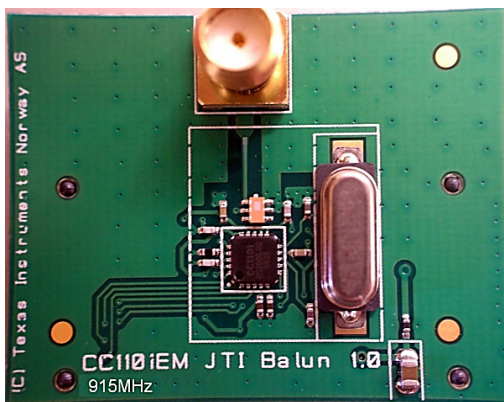
Mount these devices with brown mark facing up. Units: mm

* Line width should be designed to provide 50 Ω impedance matching characteristics.

Pin assignment reference



To obtain application notes, information how to implement this component, or obtain gerber files, go to: www.johansontechnology.com/ti
or contact our Apps Engineering Team at:
www.johansontechnology.com/component/techquestion/?Itemid=407



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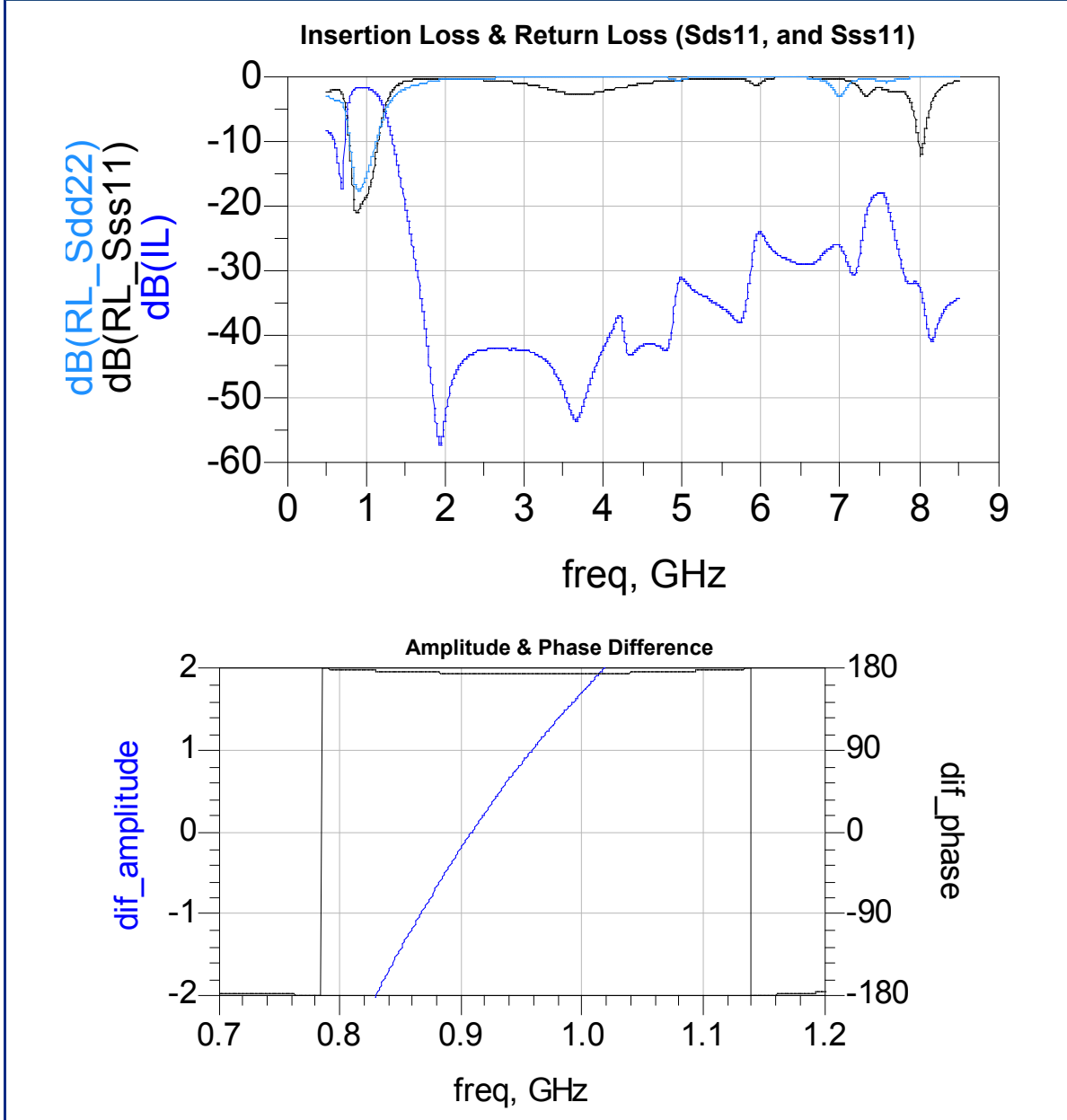
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Typical Electrical Performance (T=25°C)



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RoHS Compliance

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Soldering Information

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Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

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Pad metalization information

www.johansontechnology.com/silverleads

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

Application Notes, Layout Files, and more

www.johansontechnology.com/ti.html

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