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

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° ± 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 Quanity	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		

[1]Note: Band Pass Filtering included

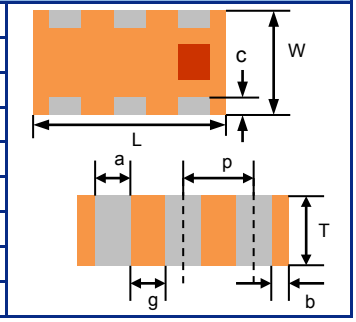
[2]For more info go to www.johansontechnology.com/silverleads

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		

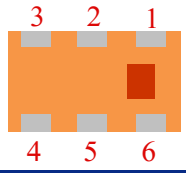
Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.028 ± 0.004	0.70 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 +.004/-.008	0.30 +0.1/-0.2
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 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



[3]Balanced 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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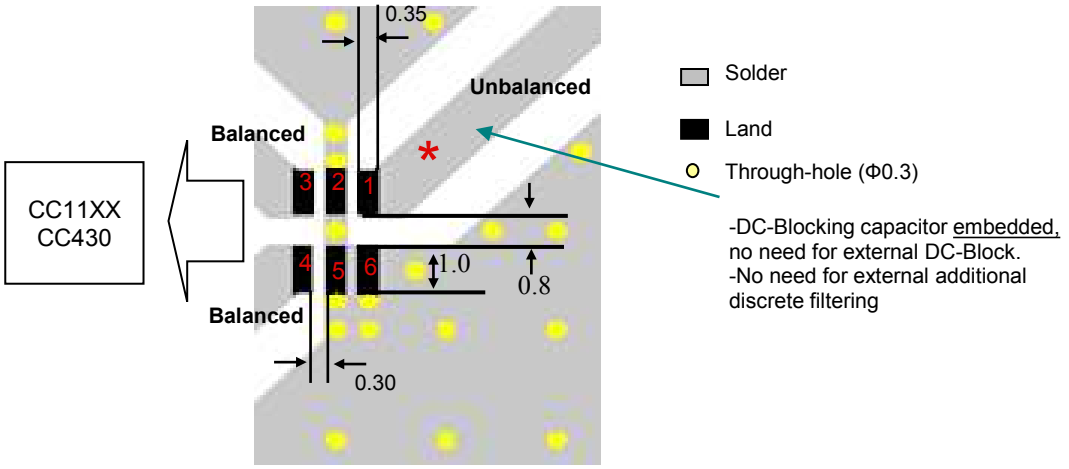
Mounting Considerations

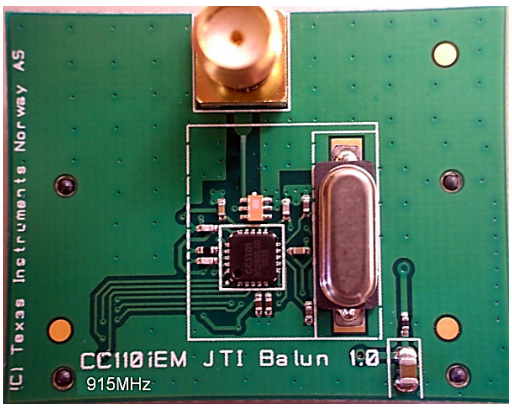
Mount these devices with brown mark facing up. Units: mm

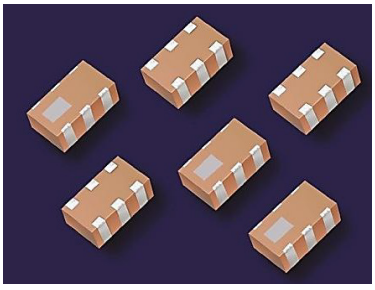
* Line width should be designed to provide 50 Ω impedance matching characteristics.

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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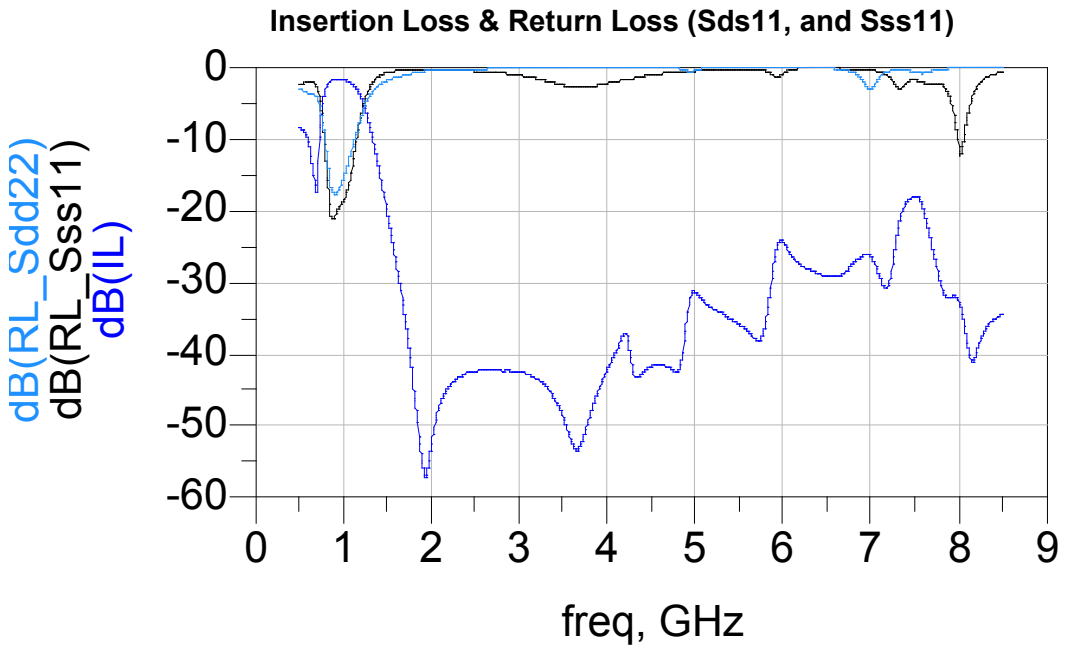
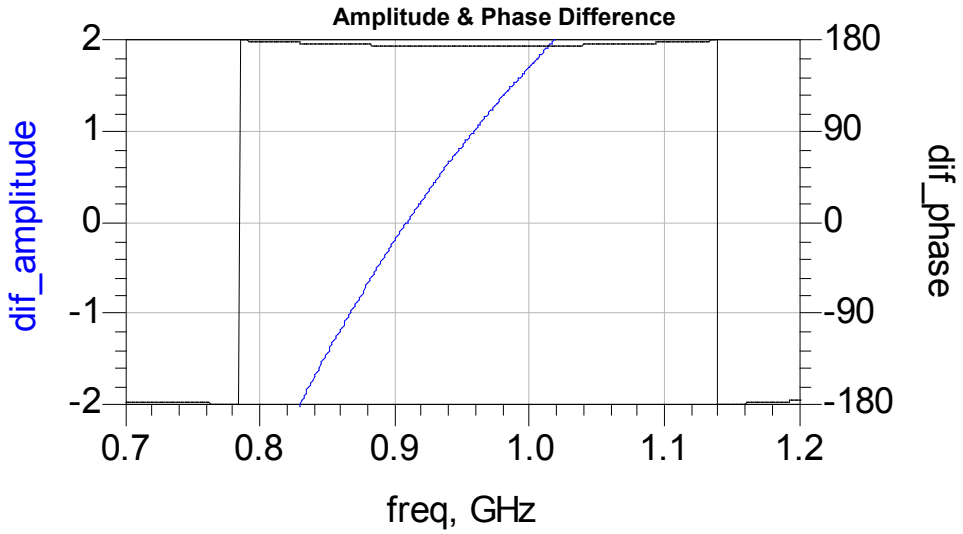
Typical Electrical Performance (T=25°C)





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Soldering Information
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Antenna layout and tuning techniques
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Recommneded Storage Condition and Max Shelf Life
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Application Notes, Layout Files, and more
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