

High Frequency Ceramic Solutions

868MHz Impedance Matched/Balun/BPF Integrated Component for T.I. CC110X, P/N 0868BM15C0001
CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430

Detail Specification: 09/09/2011

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General Specifications

Part Number	0868BM15C0001	Insertion Loss	2.1 dB max.
Operating Frequency	863 - 873 (MHz)	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 max.
		Input Power	1W max. (CW)
Attenuation*	10 dB min. @ 699MHz	Reel Quantity	4,000
	30 dB min. @ 1736MHz	Operating Temperature	-40 to +85°C
	30 dB min. @ 2604MHz	Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH, 18 months. 1 week max after opened**
	35 dB min. @ 3472MHz		
	30 dB min. @ 4340MHz		

* Band Pass Filtering

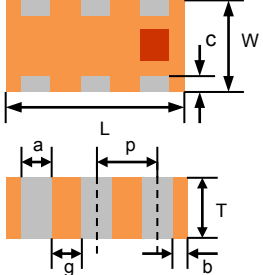
**For more info go to www.johansontechnology.com/silverleads

Part Number Explanation

P/N Suffix	Packing Style	Bulk	Suffix = S	Eg. 0868BM15C0001S
		T & R	Suffix = E	Eg. 0868BM15C0001E
	Termination style	AgPt	Suffix = None	Eg. 0868BM15C0001 (E or S)
	Evaluation Board	0868BM15C0001-EBSMA		

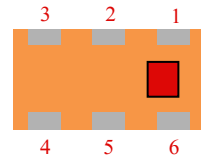
Mechanical Dimensions

	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 +.004/-.008	0.30 +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***
2	GND	5	GND
3	Balanced Port***	6	GND



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

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Detail Specification: 09/09/2011

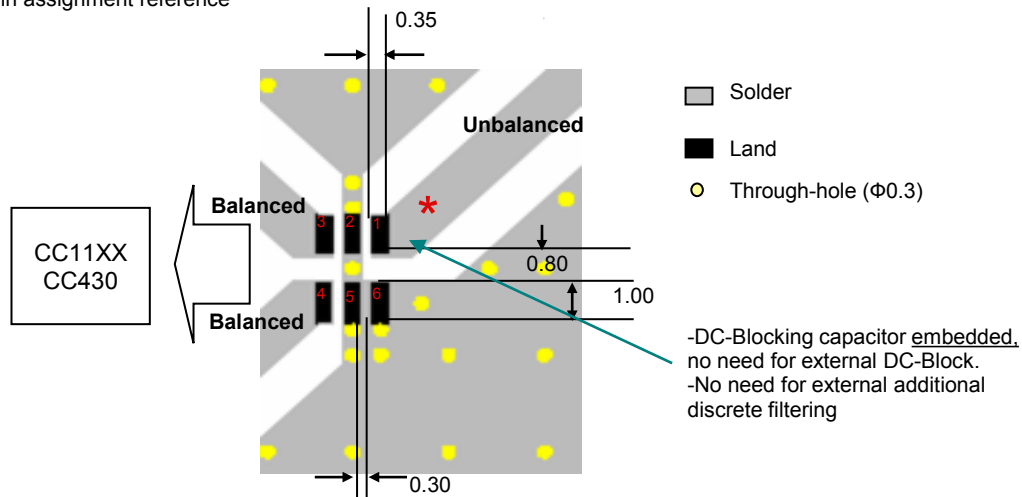
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Mounting Considerations

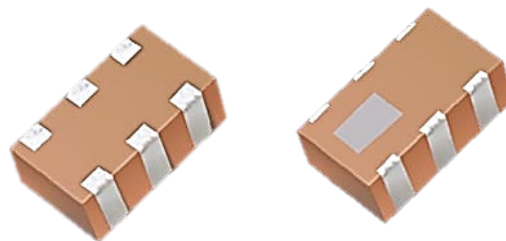
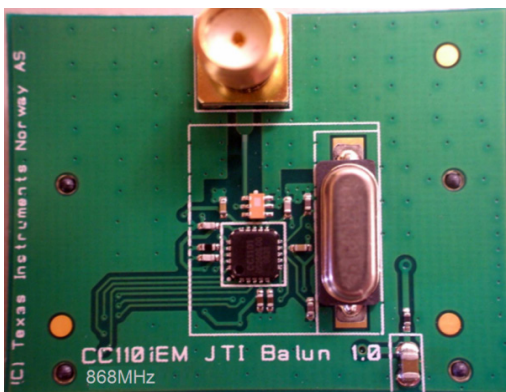
Mount these devices with brown mark facing up. Units: mm

* Unbalanced trace/port must exhibit a 50Ω characteristic impedance

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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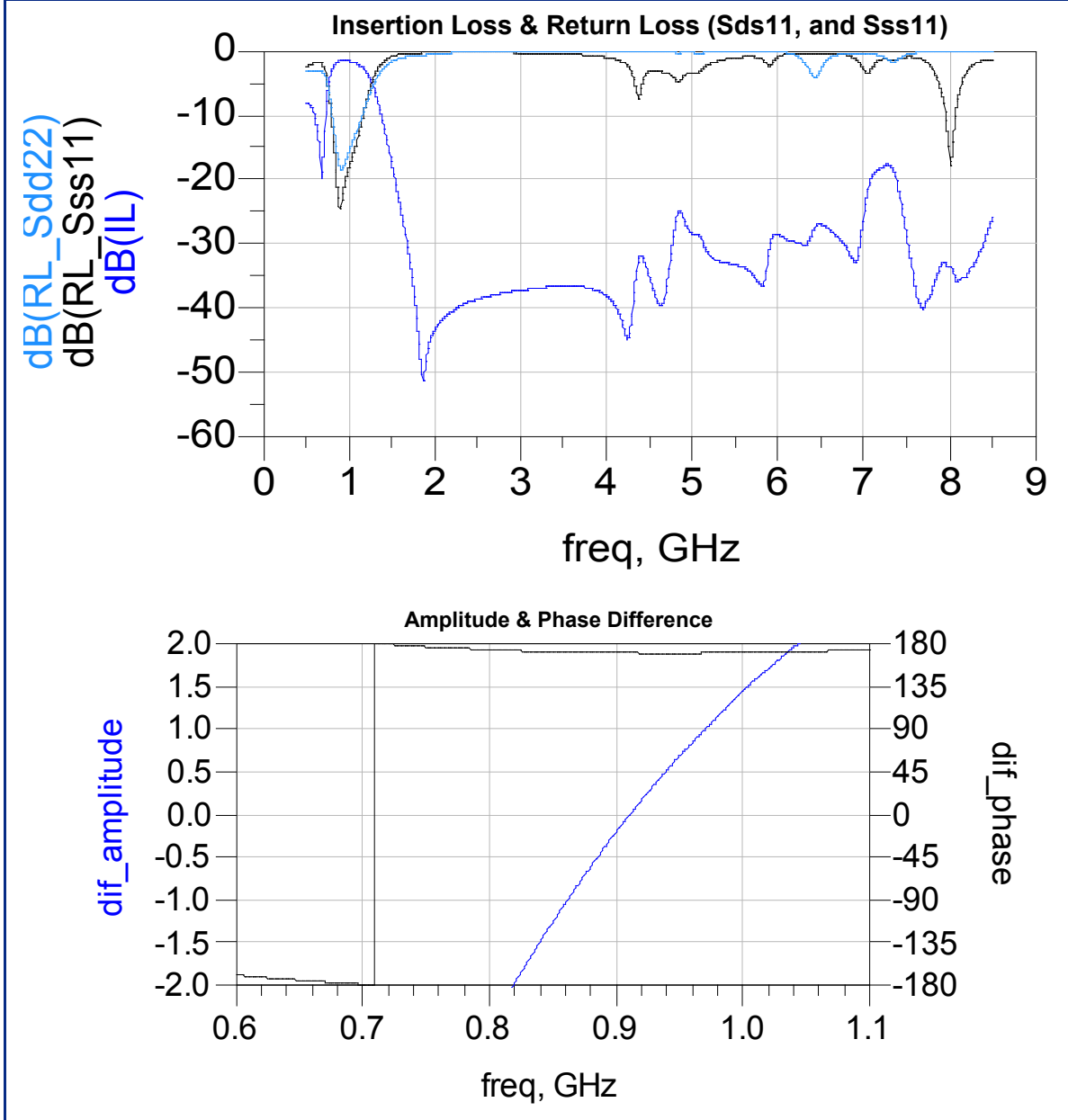
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Typical Electrical Performance (T=25°C)



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RoHS Compliance

www.johansontechnology.com/technical-notes/rohs-compliance.html

Packaging information

www.johansontechnology.com/ipcpackaging.html

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques

www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services

www.johansontechnology.com/ipcantennaservices

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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