

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 and CC430**

Detail Specification: 09/09/2011

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General Specifications

Part Number	0868BM15C0001
Operating Frequency	863 - 873 (MHz)
Unbalanced Impedance	50 Ω
Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L and CC430 Chipsets
Attenuation*	10 dB min. @ 699MHz
	30 dB min. @ 1736MHz
	30 dB min. @ 2604MHz
	35 dB min. @ 3472MHz
	30 dB min. @ 4340MHz

Insertion Loss	2.1 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° \pm 15
Amplitude Difference	1.5 dB max.
Input Power	1W max.
Reel Quantity	4,000
Operating Temperature	-40 to +85°C
Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH, 18 months. 1 week max after opened**

* Band Pass Filtering

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

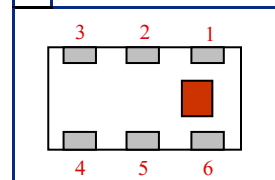
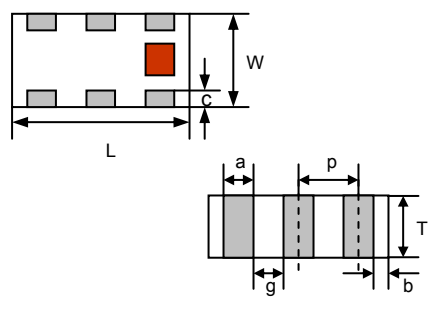
P/N	Packaging Style	Bulk	Suffix = S	Eg. 0868BM15C0001S
	Termination Style	T & R	Suffix = E	Eg. 0868BM15C0001E
	Evaluation Board	0868BM15C0001-EBSMA		
	Suffix	AgPt	Suffix = None	Eg. 0868BM15C0001(E or S)

Terminal Configuration

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

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/-0.008	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



***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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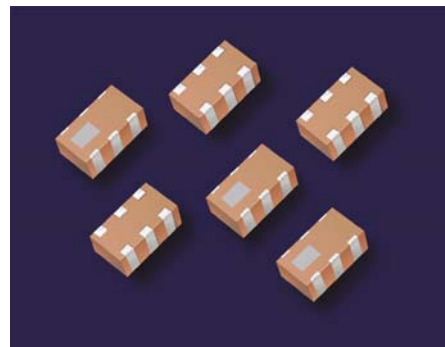
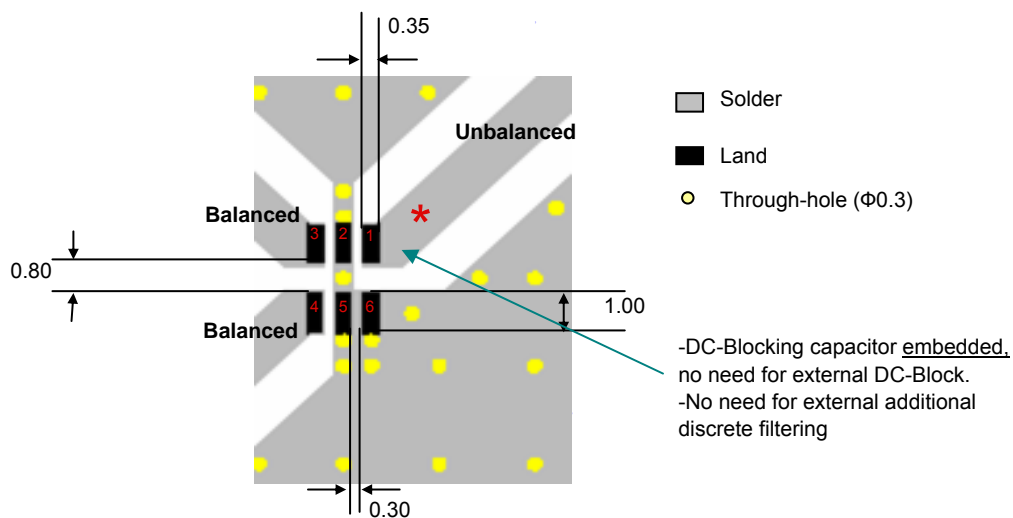
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Mounting Considerations

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

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

Pin assignment reference



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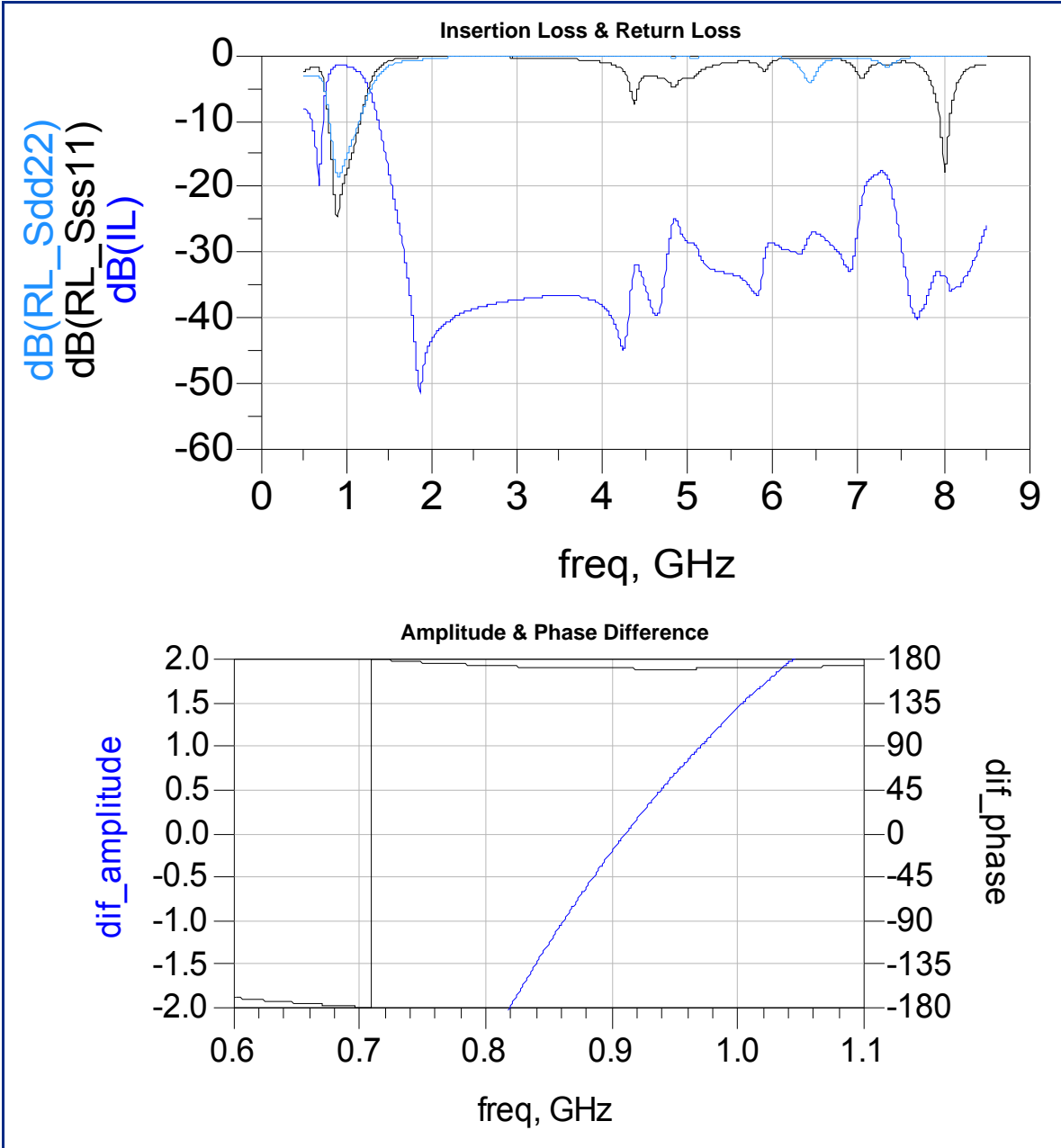
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Typical Electrical Performance (T=25°C)



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