

High Frequency Ceramic Solutions

868/915 MHz Impedance Matched/Balun/LPF Integrated Component for T.I.
CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L and CC430

P/N 0896BM15A0001

Detail Specification: 09/09/2011

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General Specifications

Part Number	0896BM15A0001
Frequency (MHz)	863 - 928 MHz
Unbalanced Impedance	50 Ω
Differential Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L and CC430
Insertion Loss	1.5 dB max.
Return Loss	9.5 dB min.
Attenuation (min.)	25 @ 1726 - 1856MHz
	35 min.@ 2589 - 2784MHz
	35 min.@ 3452 - 3712MHz
	35 min.@ 4315 - 4640MHz

Phase Difference	180° $\pm$ 10
Amplitude Difference	1.5 dB max.
Operating Temperature	-40 to +85°C
Power Rating	1W max.
Storage Conditions	+5 to +35°C, Humidity 45 - 75%RH
Storage Period	18 months max sealed. 1 week max after opened*
Reel quantity	4000 pcs
Moisture Sensitivity Level	1

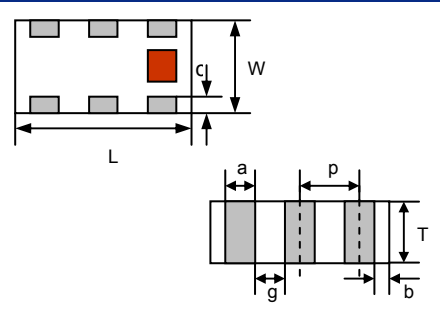
*For more info go to
www.johansontechnology.com/silverleads

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 $\pm$ 0.004/-0.008	0.30 $\pm$ 0.1/-0.20
g	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
p	0.026 $\pm$ 0.002	0.65 $\pm$ 0.05

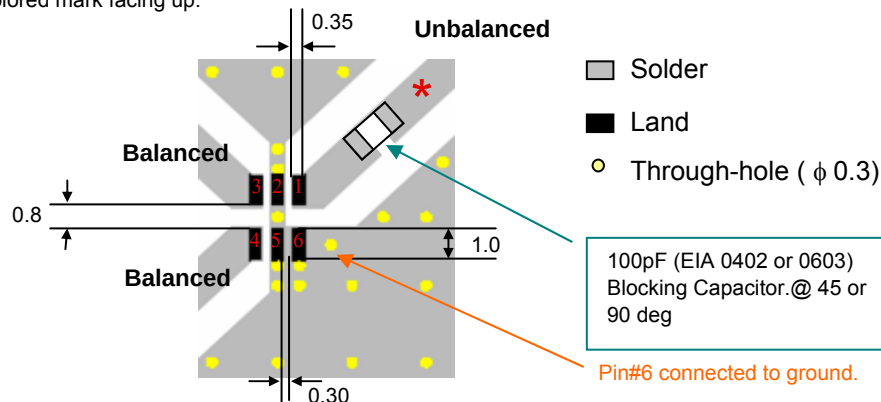


Mounting Considerations

* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Mount device with colored mark facing up.

Pin reference



Units: mm

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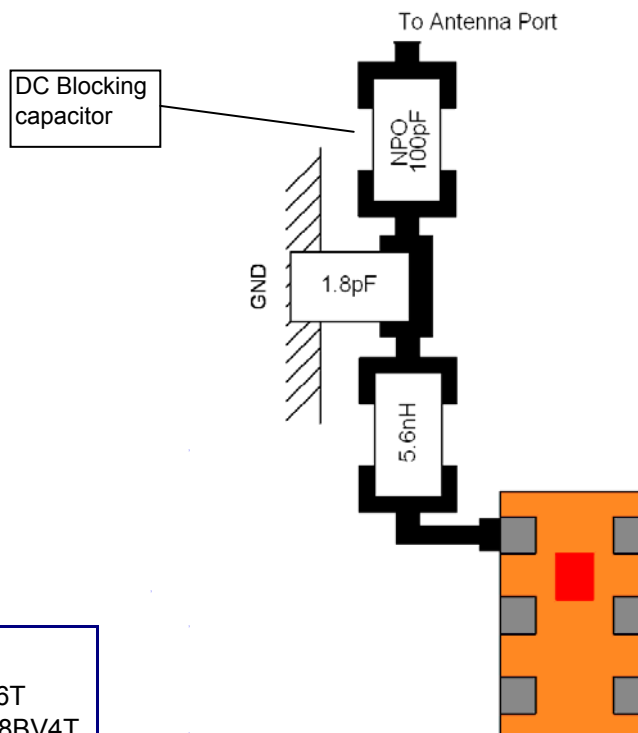
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Typical Electrical Performance (T=25°C)

Note:

Additional output filtering may be required depending on output power in order to comply with FCC and/or ETSI regulations

Mount device with colored mark facing up.



Component P/N:
5.6nH Inductor: L-07C5N6SV6T
1.8pF Capacitor: 500R07S1R8BV4T

P/N Suffix	Packaging Style	Bulk	Suffix = S	Eg. 0896BM15A0001S
		T & R	Suffix = E	Eg. 0896BM15A0001E
	Termination Style	AgPt	Suffix = None	Eg. 0896BM15A0001(E or S)
	Evaluation Board	0896BM15A0001-EBSMA		



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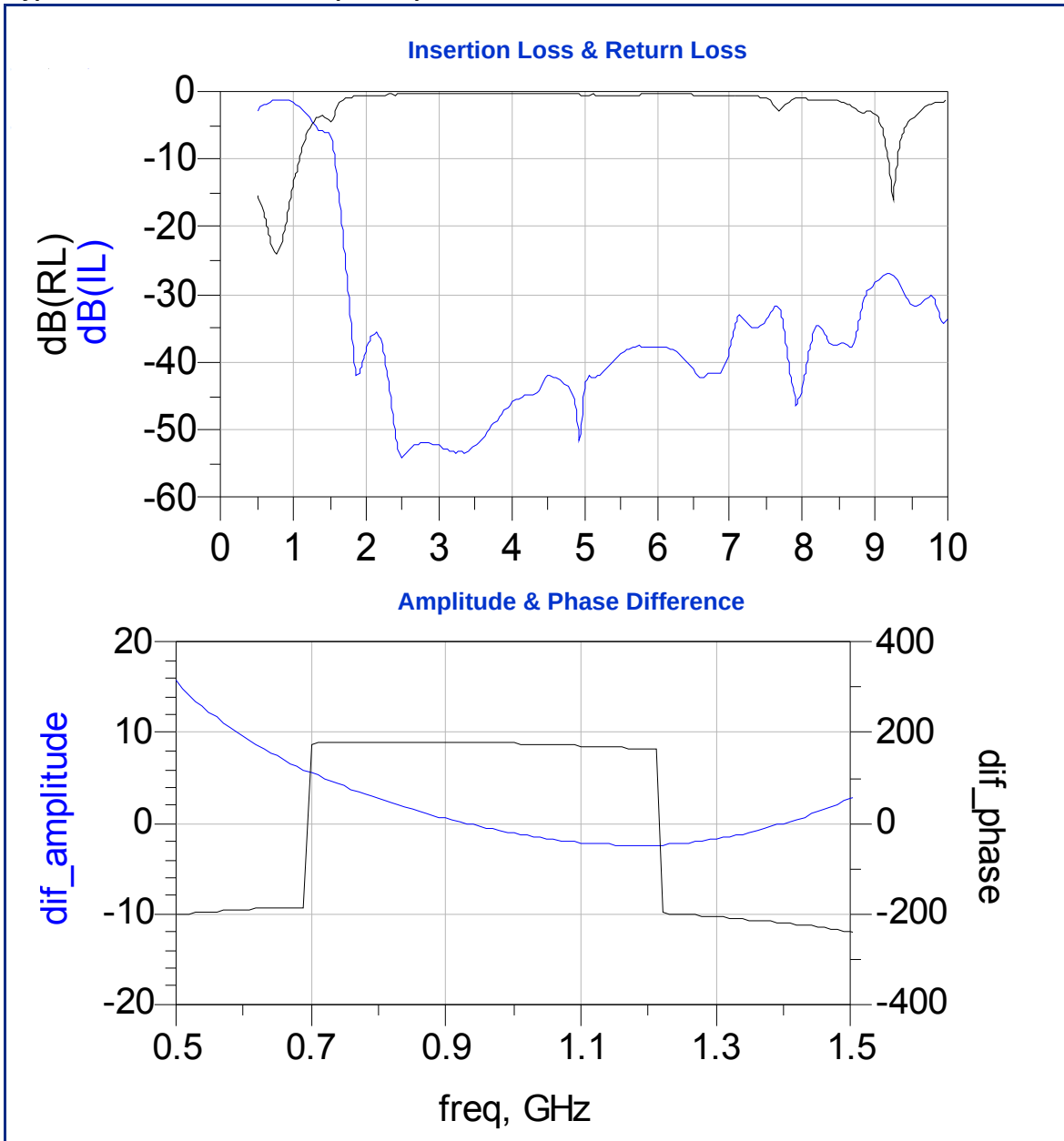
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