

"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: 2/10/2014

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General Specifications

Part Number	0896BM15A0001	Return Loss	9.5 dB min.
Frequency (MHz)	863 - 928 Mhz	Phase Difference	180° ± 10
Unbalanced Impedance	50 Ω	Amplitude Difference	1.5 dB max.
Differential Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L and CC430 Chipsets	Operating Temperature	-40 to +125°C
Insertion Loss 1	1.5 dB max (-40C to +85C)	Power Rating	1W max. (CW)
Insertion Loss 2	1.55 dB max (-40C to +125C)	Reel Quantity	4,000
Attenuation (min.)	25 min @ 1726 - 1856MHz	Recooended Storage Conditions	+5 ~ +35 °C, Humidity 45~75%RH
	35 min.@ 2589 - 2784MHz		
	35 min.@ 3452 - 3712MHz		
	35 min.@ 4315 - 4640MHz		
		Storage Period	18 months max sealed. 1 week max after opened*
		Moisture Sensitivity Level	1

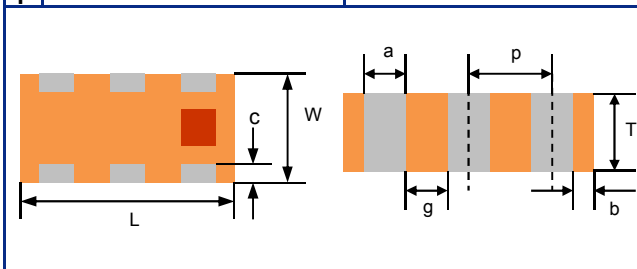
*For more info go to www.johansontechnology.com/silverleads

Part Number Explanation

P/N Suffix	Packing 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		

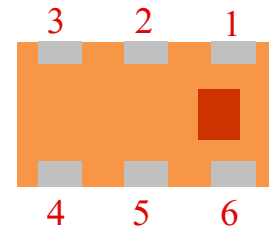
Mechanical Dimensions

	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/-0.008	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
1	Unbalanced Port
2	GND
3	Balanced Port
4	Balanced Port
5	GND
6	GND



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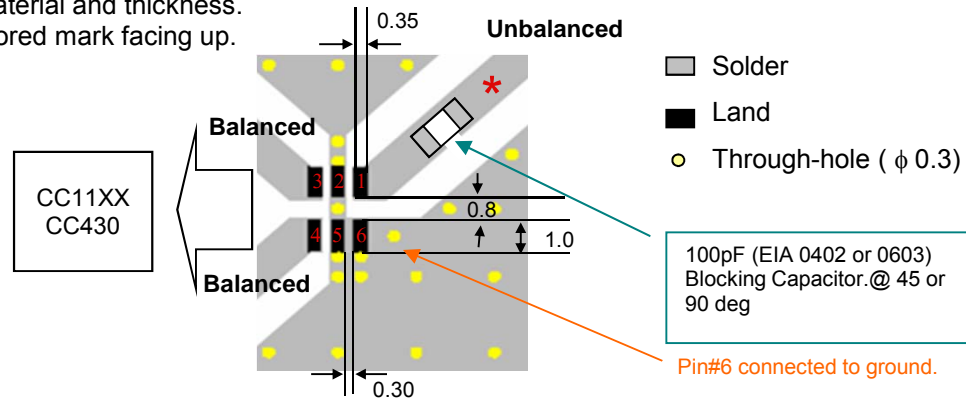
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Mounting Considerations

* Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.
 Mount device with colored mark facing up.

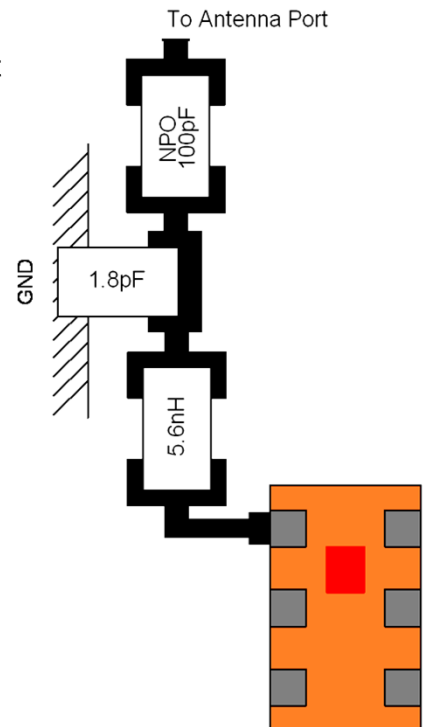
Pin reference



Units: mm

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.

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



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

Johanson Technology, Inc. reserves the right to make design changes without notice. Please confirm the specifications and delivery conditions when placing your order. All sales are subject to Johanson Technology, Inc. terms and conditions.



Ver 2.1

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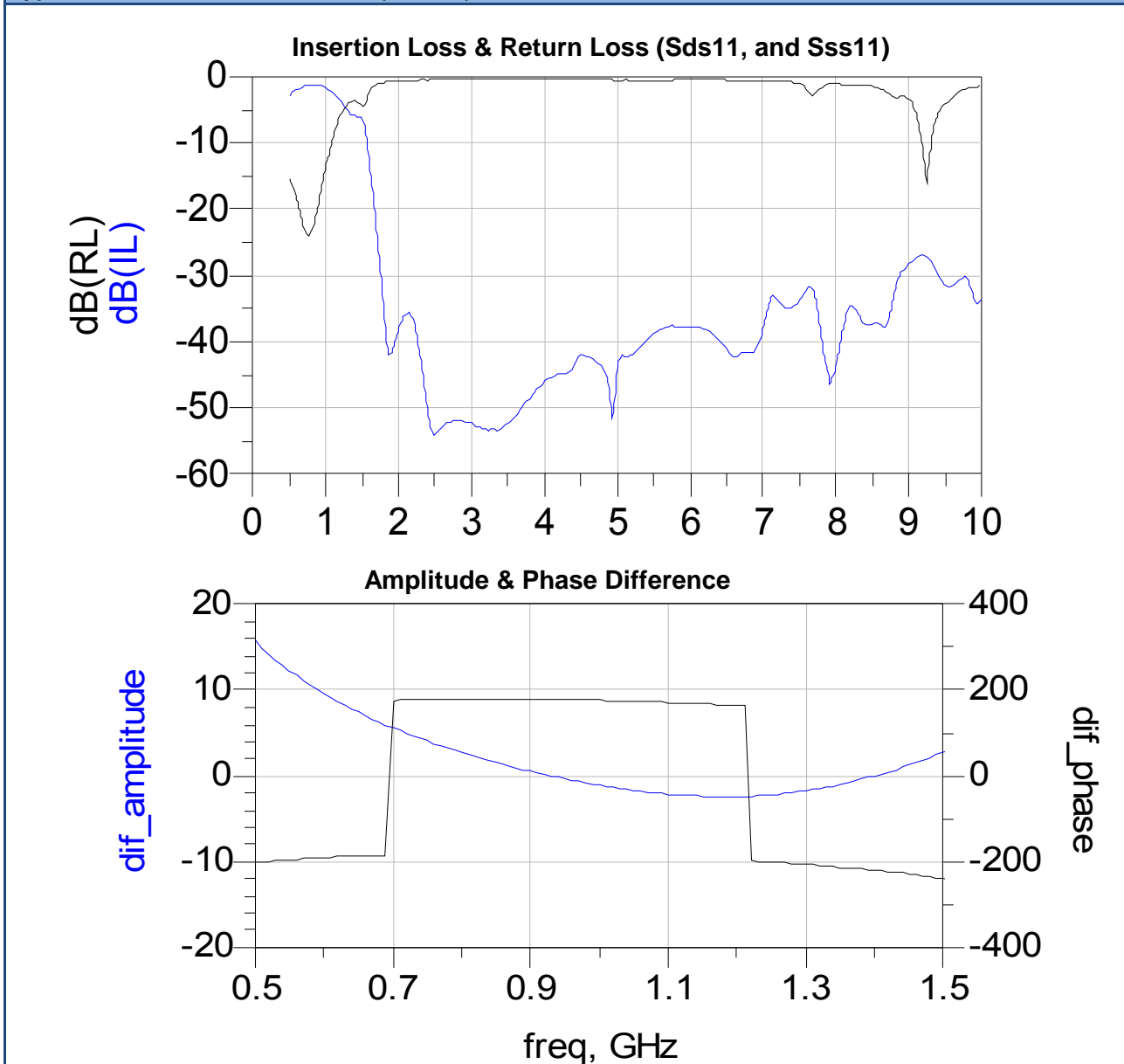
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Typical Electrical Characteristics (T=25°C)



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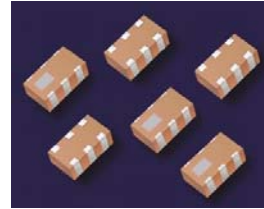
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Appearance



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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