

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

Page 1 of 4

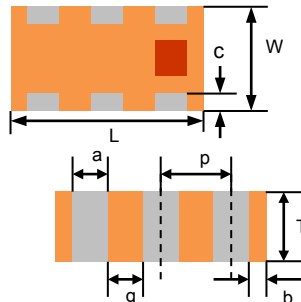
General Specifications			
Part Number	0915BM15A0001	Insertion Loss	2.0 dB max
Frequency (MHz)	902 - 928	Return Loss	9.5 dB min.
Unbalanced Impedance	50 Ω	Phase Difference	180° $\pm$ 15
Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430 Chipsets	Amplitude Difference	1.5 dB
		Input Power	1W max. (CW)
		Reel Quantity	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		

¹Note: Band Pass Filtering included

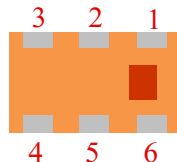
²For more info go to www.johansontechnology.com/silverleads

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 $\pm$ 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/-0.2
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 ³
2	GND	5	GND
3	Balanced Port ³	6	GND



³Balanced 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

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 2.2

2014 Johanson Technology, Inc. All Rights Reserved

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

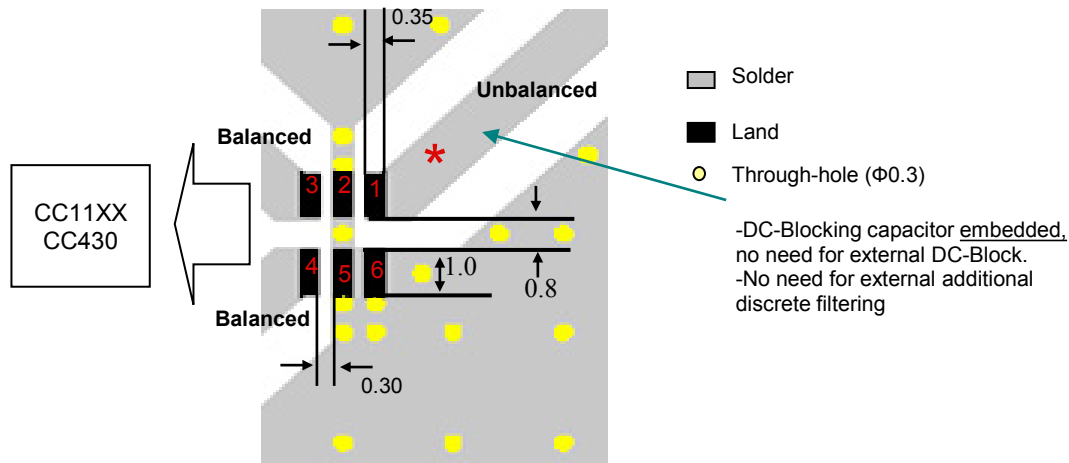
Page 2 of 4

Mounting Considerations

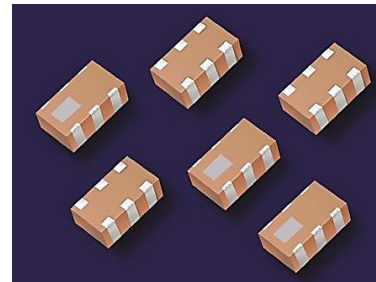
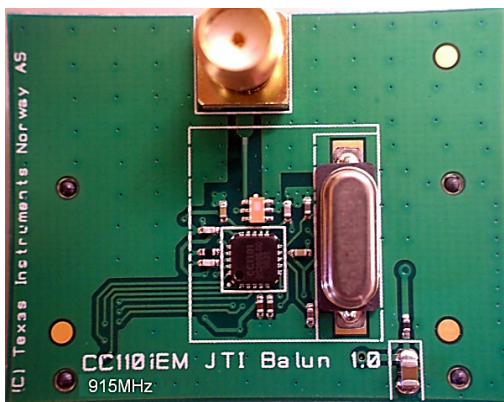
Mount these devices with brown mark facing up. Units: mm

* 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



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 2.2

2014 Johanson Technology, Inc. All Rights Reserved

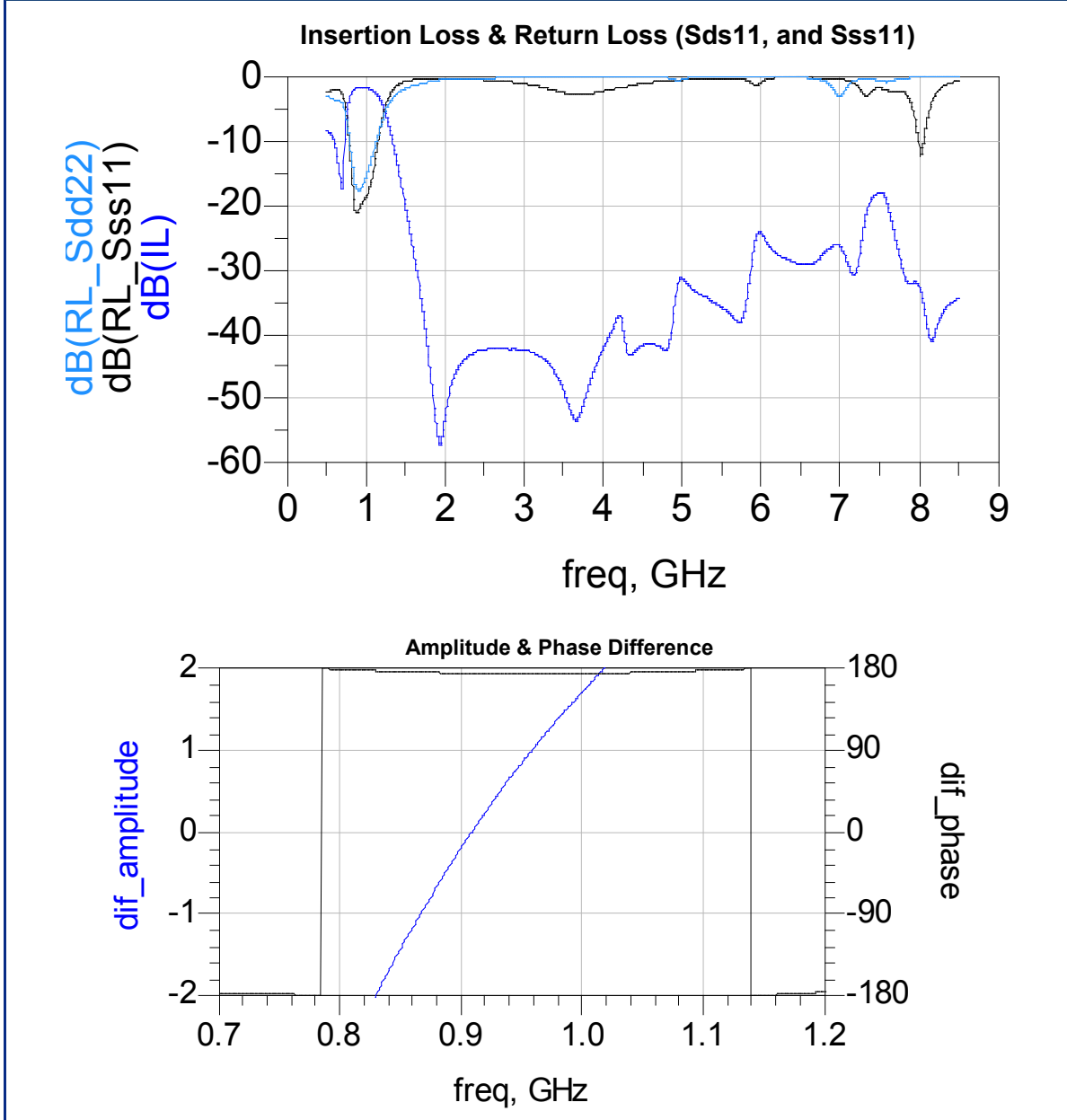
High Frequency Ceramic Solutions

915MHz Impedance Matched/Balun/BPF Integrated Component for T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L, CC430 and RF430

Detail Specification: 7/8/2014

Page 3 of 4

Typical Electrical Performance (T=25°C)



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 2.2

2014 Johanson Technology, Inc. All Rights Reserved

"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

Page 4 of 4

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

Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

Ver 2.2

2014 Johanson Technology, Inc. All Rights Reserved