

High Frequency Ceramic Solutions

433 MHz Impedance Matched/Balun/LPF Integrated Component for T.I. CC110X, P/N 0433BM15A0001
 CC111X, CC113X and CC115X, CC110L, CC113L, CC115L and CC430

Detail Specification: 09/09/2011

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General Specifications

Part Number	0433BM15A0001
Frequency (MHz)	430 - 435
Unbalanced Impedance	50 Ω
Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L and CC430 Chipsets
Attenuation (dB)	34 min. @ 2Fo
	35 min. @ 3Fo
	35 min. @ 4Fo
	35 min. @ 5Fo

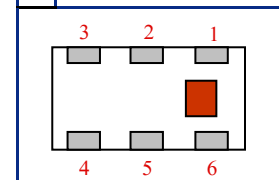
Insertion Loss	1.9 dB max
Return Loss	9.5 dB min.
Phase Difference	180° \pm 10
Amplitude Difference	1.5 dB
Input Power	1W max.
Reel Quantity	4,000
Operating Temperature	-40 to +85°C
Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH, 18 months. 1 week max after opened*

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

P/N	Packaging Style	Bulk	Suffix = S	Eg. 0433BM15A0001S
		T & R	Suffix = E	Eg. 0433BM15A0001E
Suffix	Termination Style	AgPt	Suffix = None	Eg. 0433BM15A0001(E or S)
	Evaluation Board	0433BM15A0001-EBSMA		

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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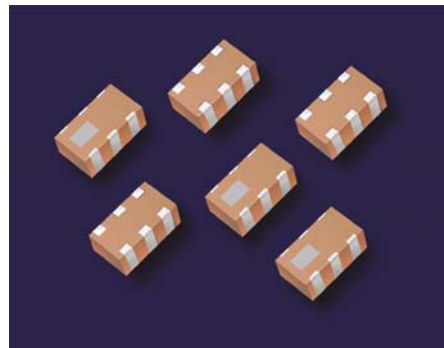
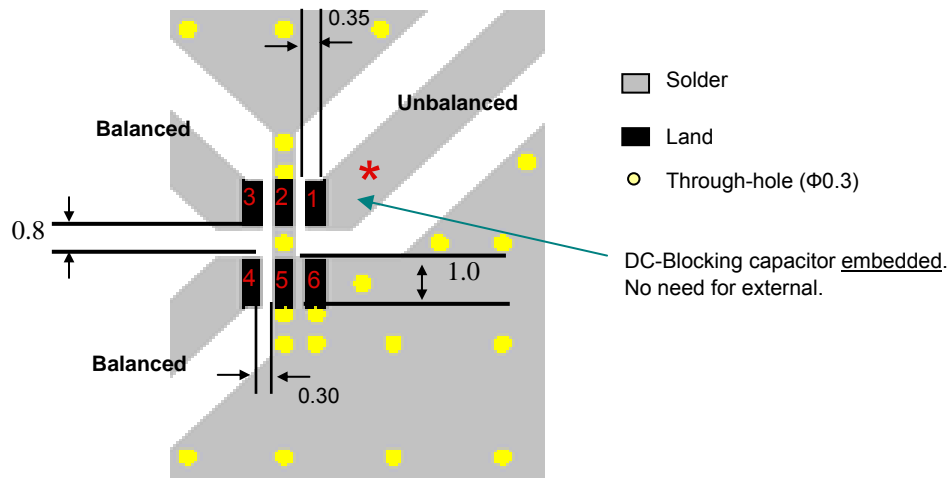
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Mounting Considerations

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

* Line width should be designed to provide 50 Ω impedance matching characteristics.

Pin assignment reference



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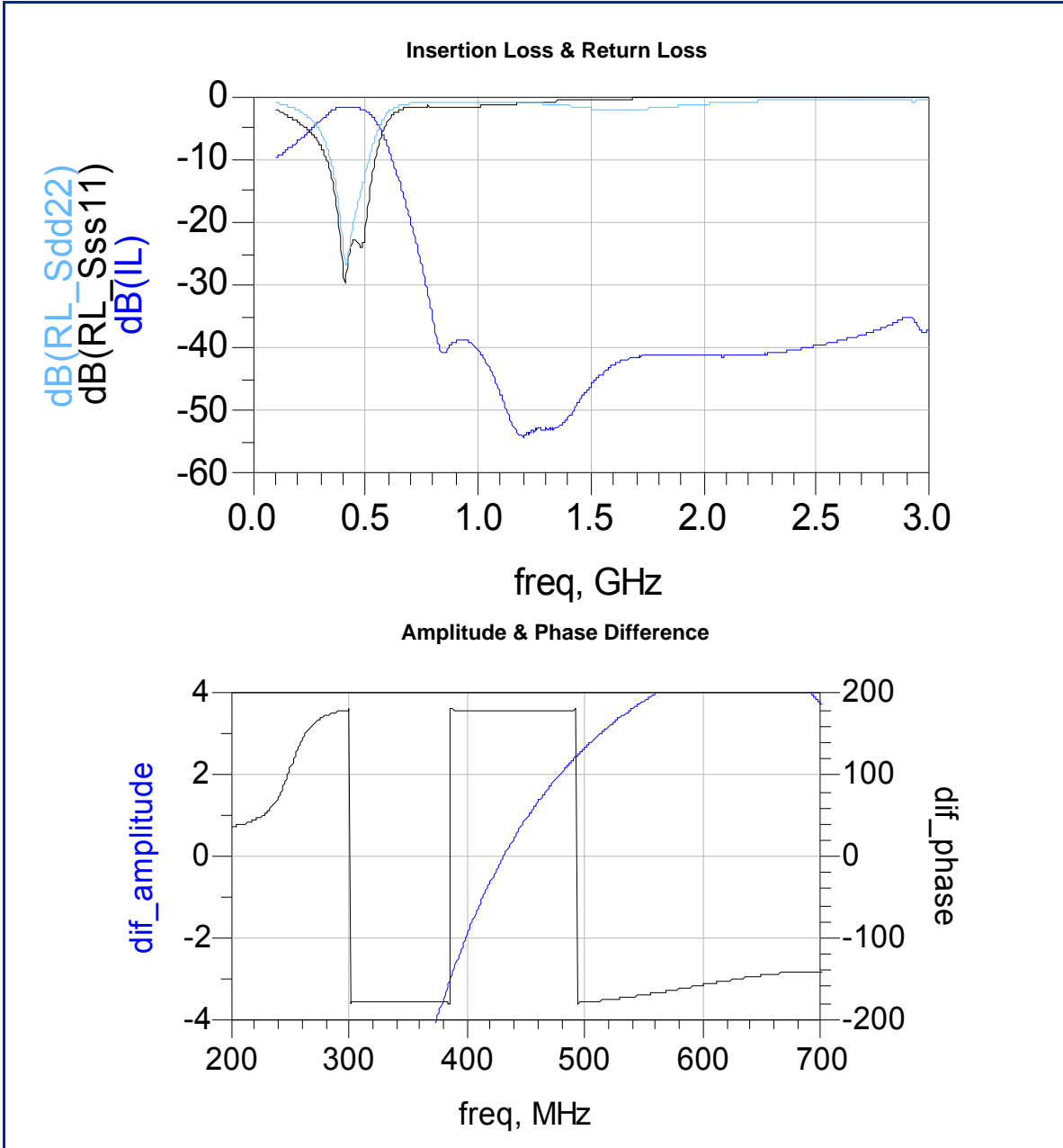
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Typical Electrical Performance (T=25°C)



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