

"High Frequency Ceramic Solutions"

**915MHz Impedance Matched/Balun/BPF Integrated Component for T.I. P/N 0915BM15A0001
CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L and CC430**

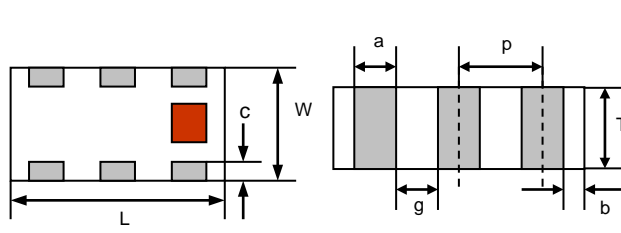
Detail Specification: 11/26/12

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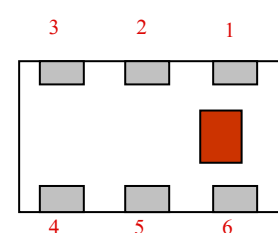
General Specifications			
Part Number	0915BM15A0001	Return Loss	9.5 dB min.
Frequency (MHz)	902 - 928 Mhz	Phase Difference	180° ± 15
Unbalanced Impedance	50 Ω	Amplitude Difference	1.5 dB
Balanced Impedance	Impedance-Matched to T.I. CC110X, CC111X, CC113X and CC115X, CC110L, CC113L, CC115L and CC430 Chipsets	Power Rating	1W max.
		Reel Quantity	4,000
Attenuation ¹	5 min. @ 745 MHz	Operating Temperature	-40 to +85°C
	30 min. @ 1830 MHz	Recommended Storage Conditions	+5 ~ +35 °C, Humidity 45~75%RH, 18 months. 1 week max after opened ²
	40 min. @ 2745 MHz		
	45 min. @ 3660 MHz		
Insertion Loss	2.0 dB max		

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	0868BM15C0001-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/-.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 ³
4	Balanced Port ³
5	GND
6	GND



¹Note: Band Pass Filtering included

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

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 port.



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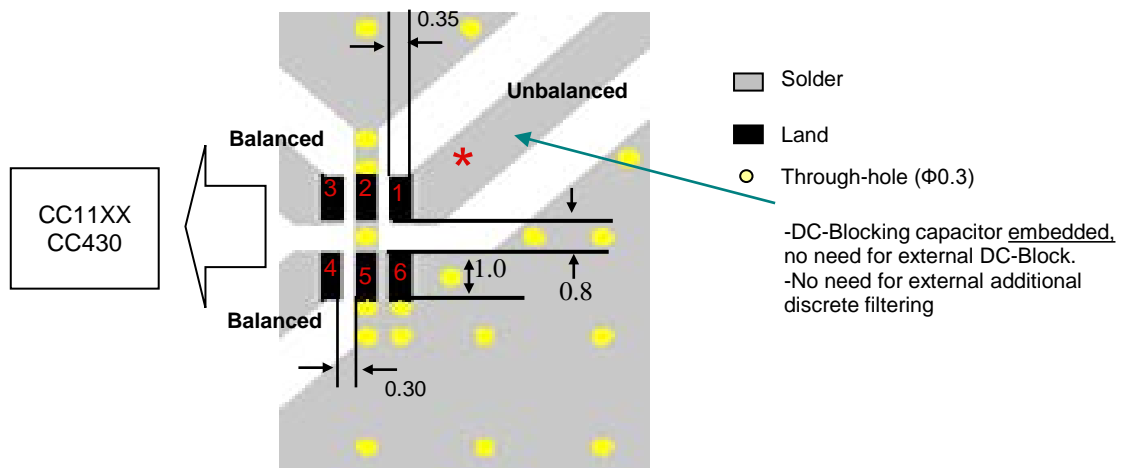
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Mounting Considerations

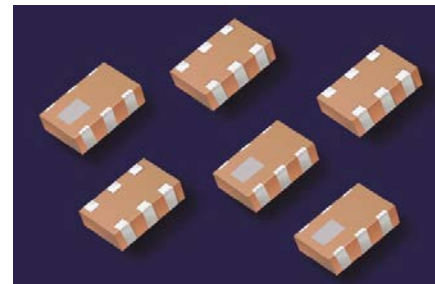
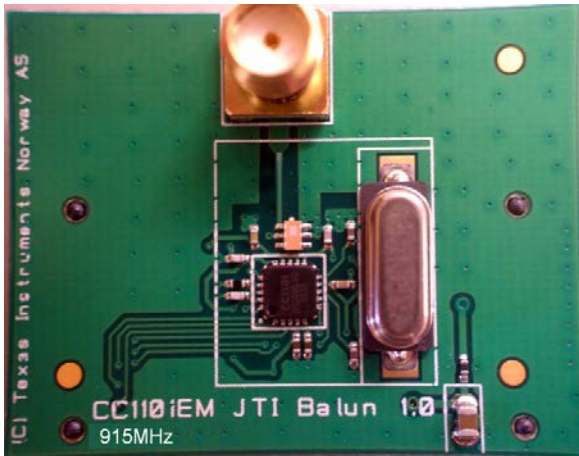
Mount these devices with brown mark facing up. Units: mm

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

Pin assignment reference



-DC-Blocking capacitor embedded,
 no need for external DC-Block.
 -No need for external additional
 discrete filtering



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Ver 1.6

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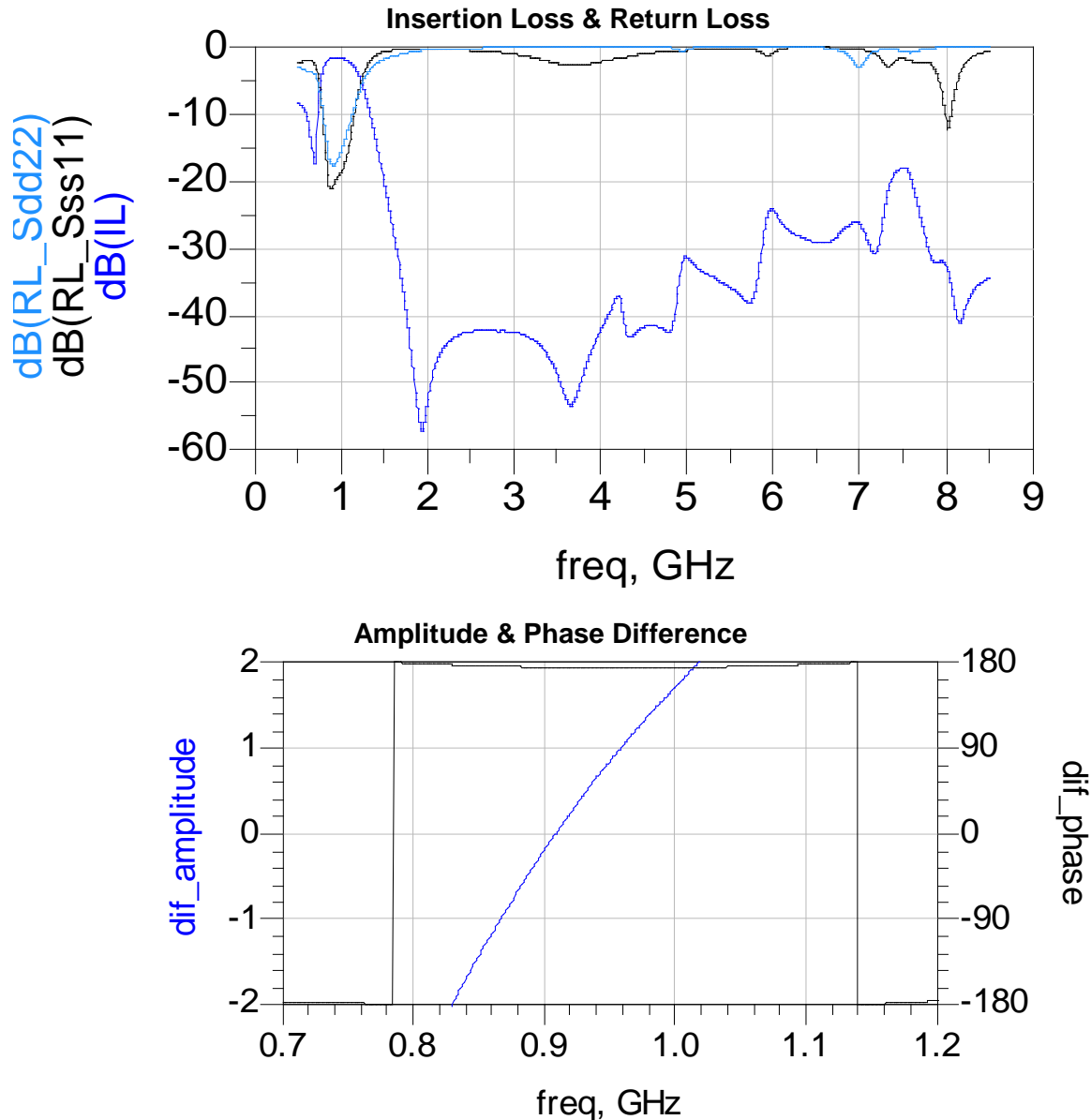
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Typical Electrical Characteristics (T=25°C)



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