

High Frequency Ceramic Solutions

Preliminary

896 MHz Balun/Matching Network for T.I. Chipset CC11XX

P/N 0896BM15A0001

Detail Specification: 10/24/08

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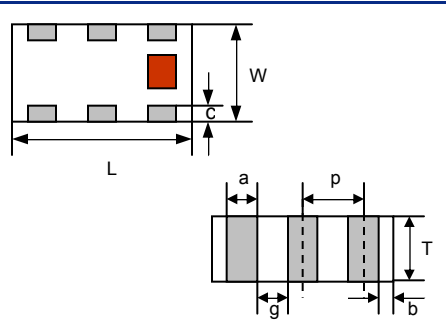
General Specifications

Part Number	0896BM15A0001
Frequency (MHz)	863 - 928 MHz
Unbalanced Impedance	50 Ω
Differential Balanced Impedance	Conj. match to T.I. CC11XX Chipset
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	12 mos. Max
Reel quantity	4000 pcs

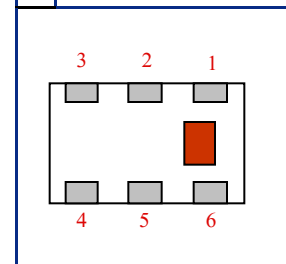
Mechanical Dimensions

	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/-0.20
g	0.014 \pm 0.004	0.35 \pm 0.10
p	0.026 \pm 0.002	0.65 \pm 0.05



Terminal Configuration

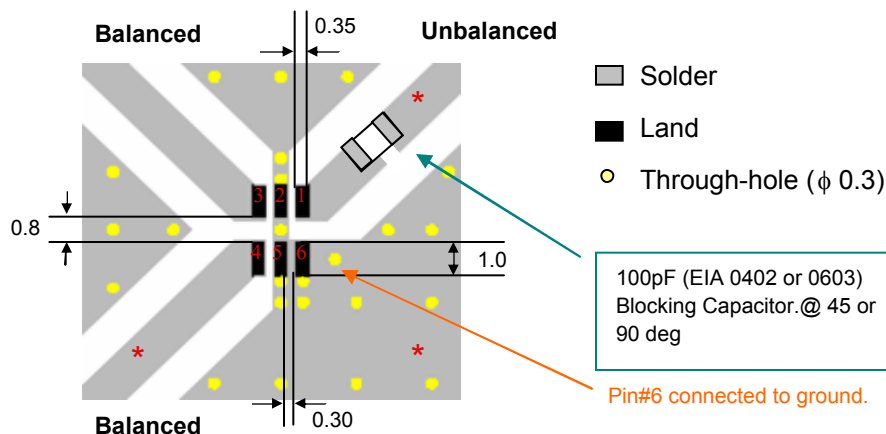
No.	Function
1	Unbalanced Port
2	GND
3	Balanced Port
4	Balanced Port
5	GND
6	GND



Mounting Considerations

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

Pin reference



Units: mm

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

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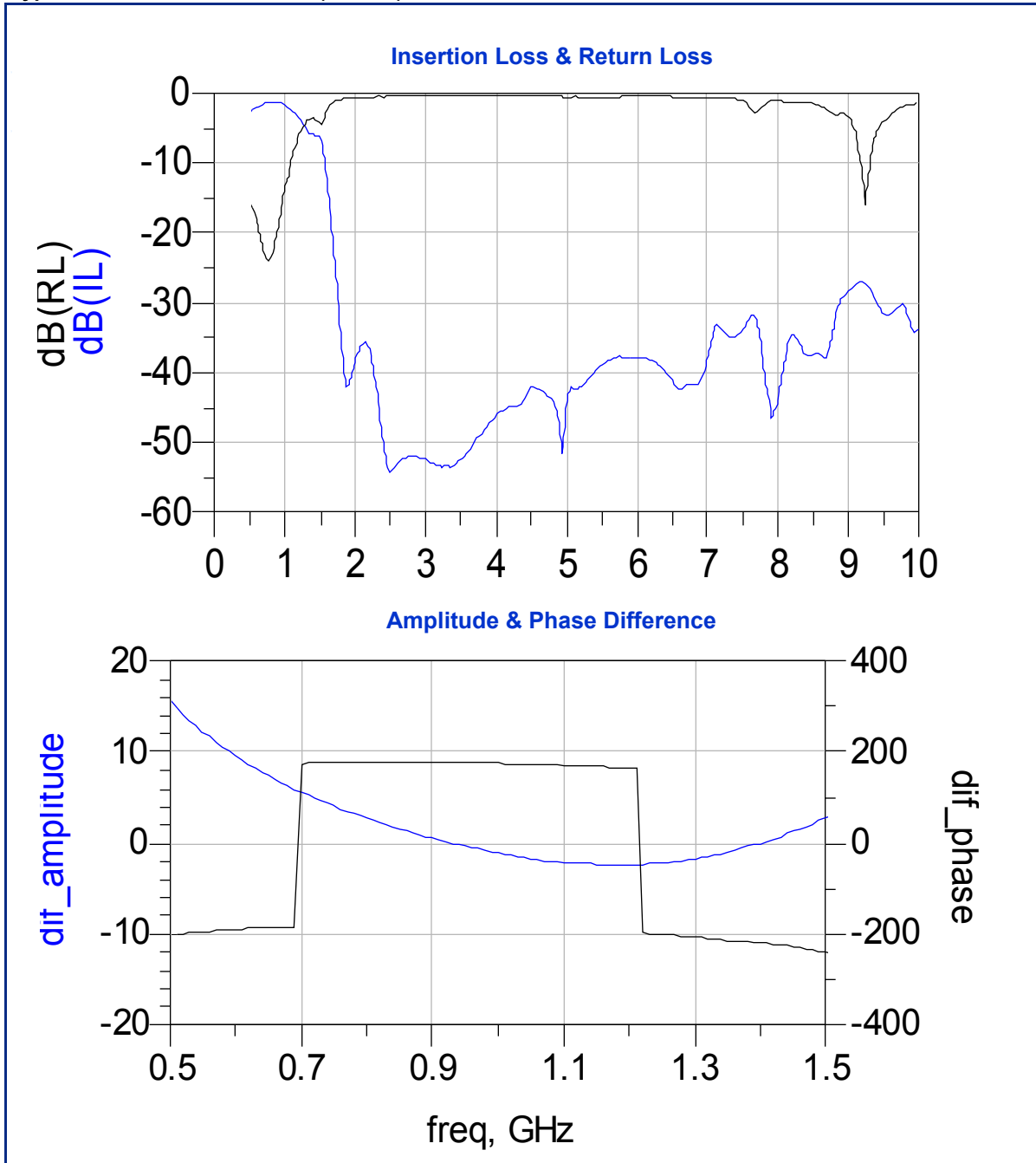
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Typical Electrical Performance (T=25°C)



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