

# High Frequency Ceramic Solutions

**863-928MHz ISM Balun-Filter Integrated passive**

**P/N 0896FB15A0100**

Detail Specification: 11/10/2010

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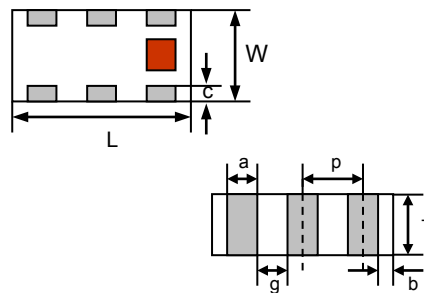
## General Specifications

<b>Part Number</b>	0896FB15A0100	<b>Attenuation (dB)</b>	30 min. @1726~1856MHz
<b>Frequency (MHz)</b>	863 - 928		30 min. @2589~2784MHz
<b>Unbalanced Impedance</b>	50 $\Omega$		30 min. @3452~3712MHz
<b>Balanced Impedance</b>	100 $\Omega$	<b>Power Rating</b>	1W max.
<b>Insertion Loss</b>	1.5 dB max.	<b>Reel Quantity</b>	4000
<b>Return Loss</b>	11.7 dB min.	<b>Operating Temp.</b>	-40 to +85 °C
<b>VSWR @ BW</b>	1.7 max.	<b>Storage Conditions</b>	+5 to +35°C, RH 45 to 75%
<b>Phase Difference</b>	180° $\pm$ 15	<b>Storage Period</b>	12 mos. max.*
<b>Amplitude Difference</b>	2.0 dB max.		

\* - 1 yr shelf life in bag; 1 week shelf life out of bag; Vacuum reseal unused reel. More info: [www.johansontechnology.com/silverleads](http://www.johansontechnology.com/silverleads)

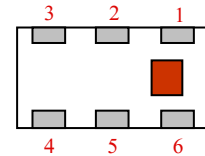
## Mechanical Dimensions

	In	mm
<b>L</b>	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
<b>W</b>	0.049 $\pm$ 0.008	1.25 $\pm$ 0.20
<b>T</b>	0.028 $\pm$ 0.004	0.70 $\pm$ 0.10
<b>a</b>	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
<b>b</b>	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
<b>c</b>	0.012 +.004/-0.008	0.30 +0.1/-0.2
<b>g</b>	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
<b>p</b>	0.026 $\pm$ 0.002	0.65 $\pm$ 0.05



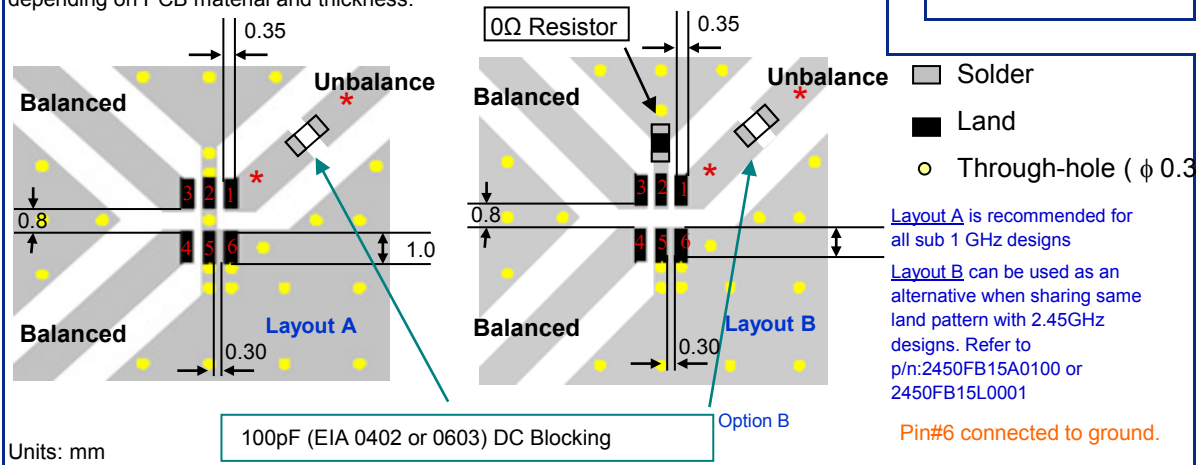
## Terminal Configuration

No.	Function
<b>1</b>	Unbalanced Port
<b>2</b>	GND
<b>3</b>	Balanced Port
<b>4</b>	Balanced Port
<b>5</b>	GND
<b>6</b>	GND



## Mounting Considerations

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



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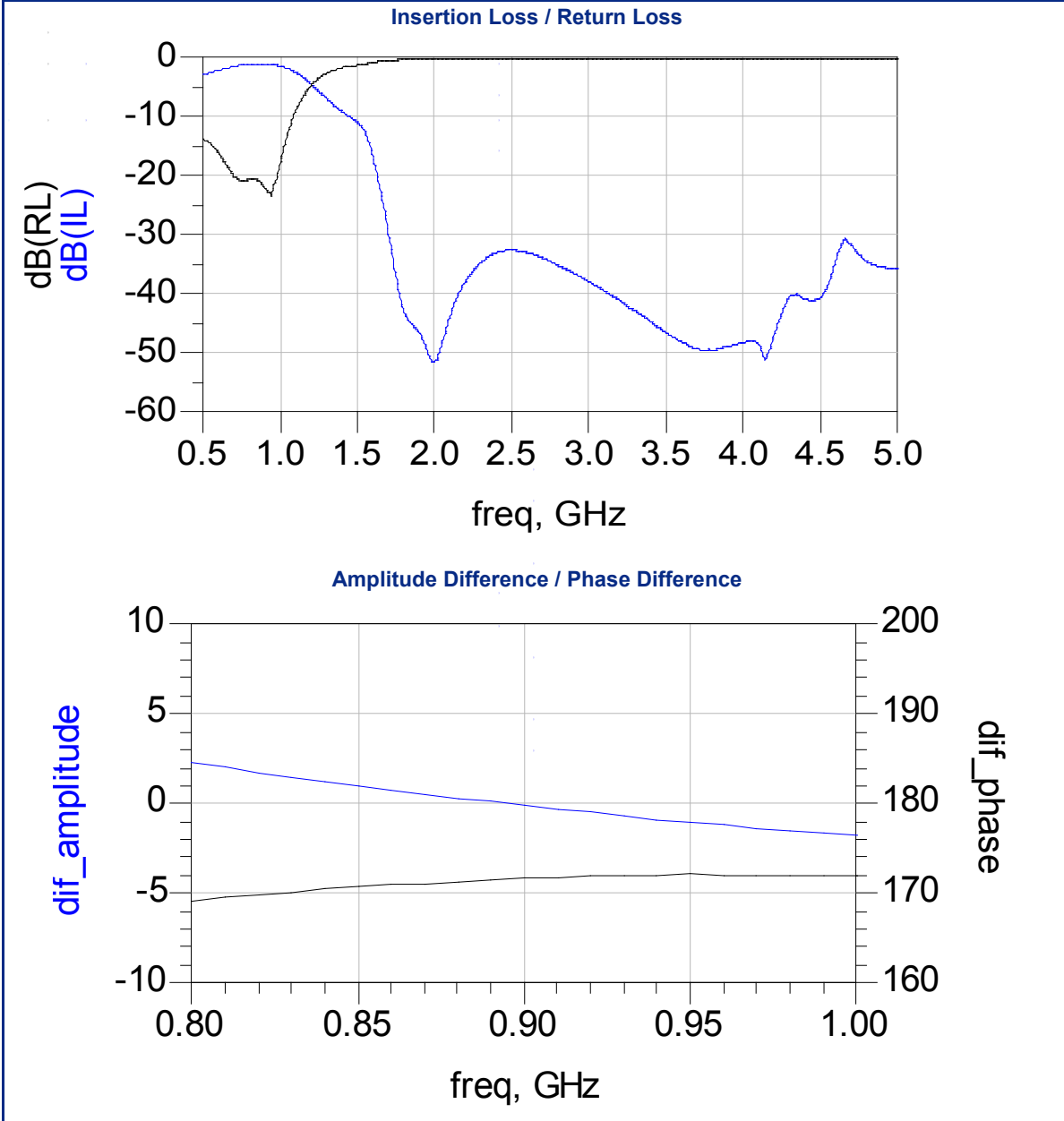
[www.johansontechnology.com](http://www.johansontechnology.com)

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Ver. 3.0

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Typical Electrical Performance (T=25°C)



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