

# Preliminary High Frequency Ceramic Solutions

## 896 MHz Balun/Filer Combination

P/N 0896FB15A0100

Detail Specification: 10/24/08

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### General Specifications

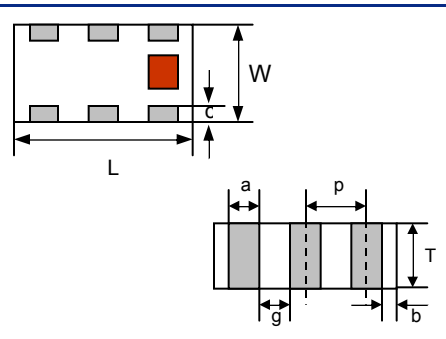
Part Number	0896FB15A0100
Frequency (MHz)	863 - 928
Unbalanced Impedance	50 $\Omega$
Balanced Impedance	100 $\Omega$
Insertion Loss	1.5 dB max.
Return Loss	11.7 dB min.
VSWR @ BW	1.7 max.
Phase Difference	180° $\pm$ 15
Amplitude Difference	2.0 dB max.

Attenuation (dB)	30 min. @ 1726~1856MHz
	30 min. @ 2589~2784MHz
	30 min. @ 3452~3712MHz
Power Rating	1W max.
Reel Quantity	4000
Operating Temp.	-40 to +85 °C
Storage Conditions	+5 to +35°C, RH 45 to 75%
Storage Period	12 mos. max.*

\* - 1 yr shelf life in bag; 1 week shelf life out of bag;  
Vacuum reseal unused reel

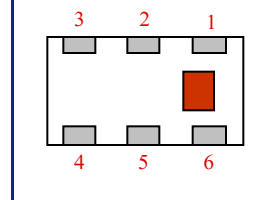
### Mechanical Dimensions

	In	mm
L	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
W	0.049 $\pm$ 0.008	1.25 $\pm$ 0.20
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



### Terminal Configuration

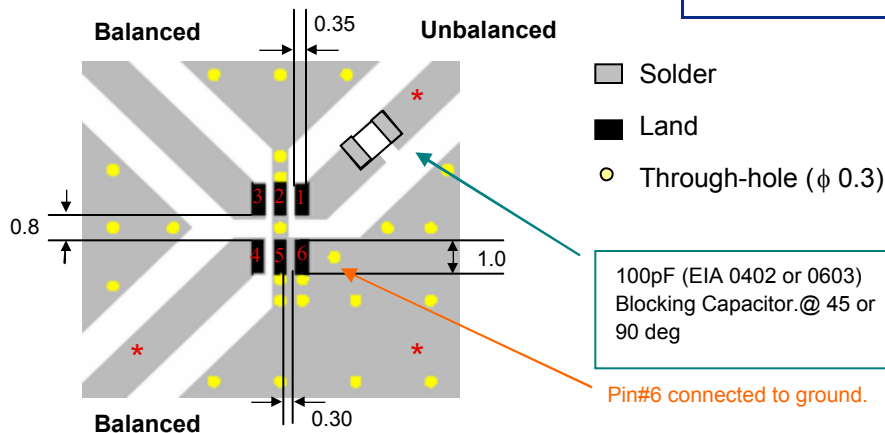
No.	Function
1	Unbalanced Port
2	GND
3	Balanced Port
4	Balanced Port
5	GND
6	GND



### Mounting Considerations

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

# Pin reference



Units: mm

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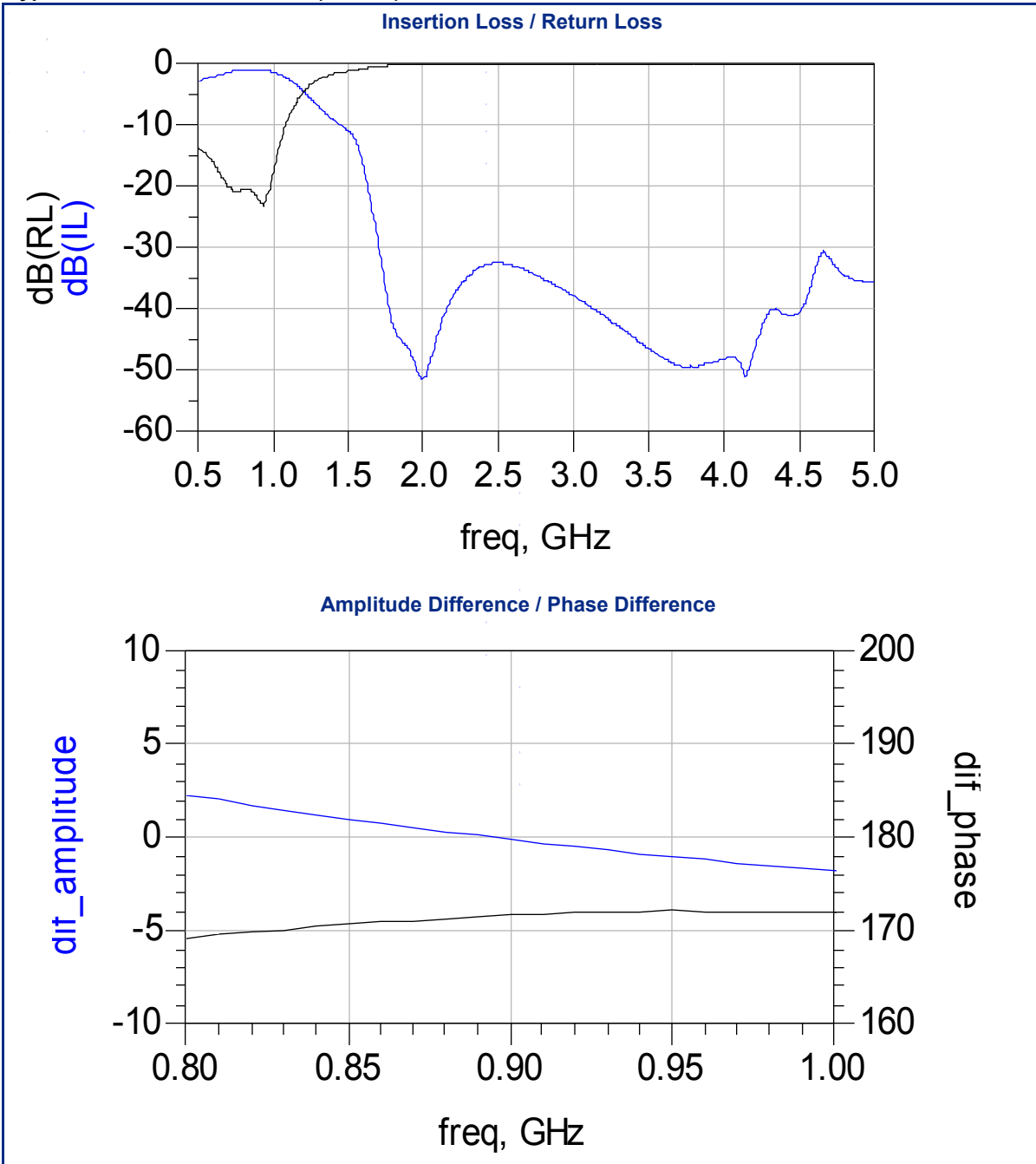
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Typical Electrical Performance (T=25°C)



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