



WIN*SOURCE*
ELECTRONICS

**THE DATASHEET OF
0896FB15A0100E**



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

Mechanical Dimensions		
	In	mm
L	0.079 ± 0.008	2.00 ± 0.20
W	0.049 ± 0.008	1.25 ± 0.20
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/-0.008	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
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.

Units: mm

100pF (EIA 0402 or 0603) DC Blocking

Option B

Legend:
 ■ Solder
 ■ Land
 ○ Through-hole (φ 0.3)

Layout A is recommended for all sub 1 GHz designs
 Layout B can be used as an alternative when sharing same land pattern with 2.45GHz designs. Refer to p/n:2450FB15A0100 or 2450FB15L0001

Pin#6 connected to ground.

Johanson Technology, Inc. reserves the right to make design changes without notice.
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High Frequency Ceramic Solutions

Preliminary

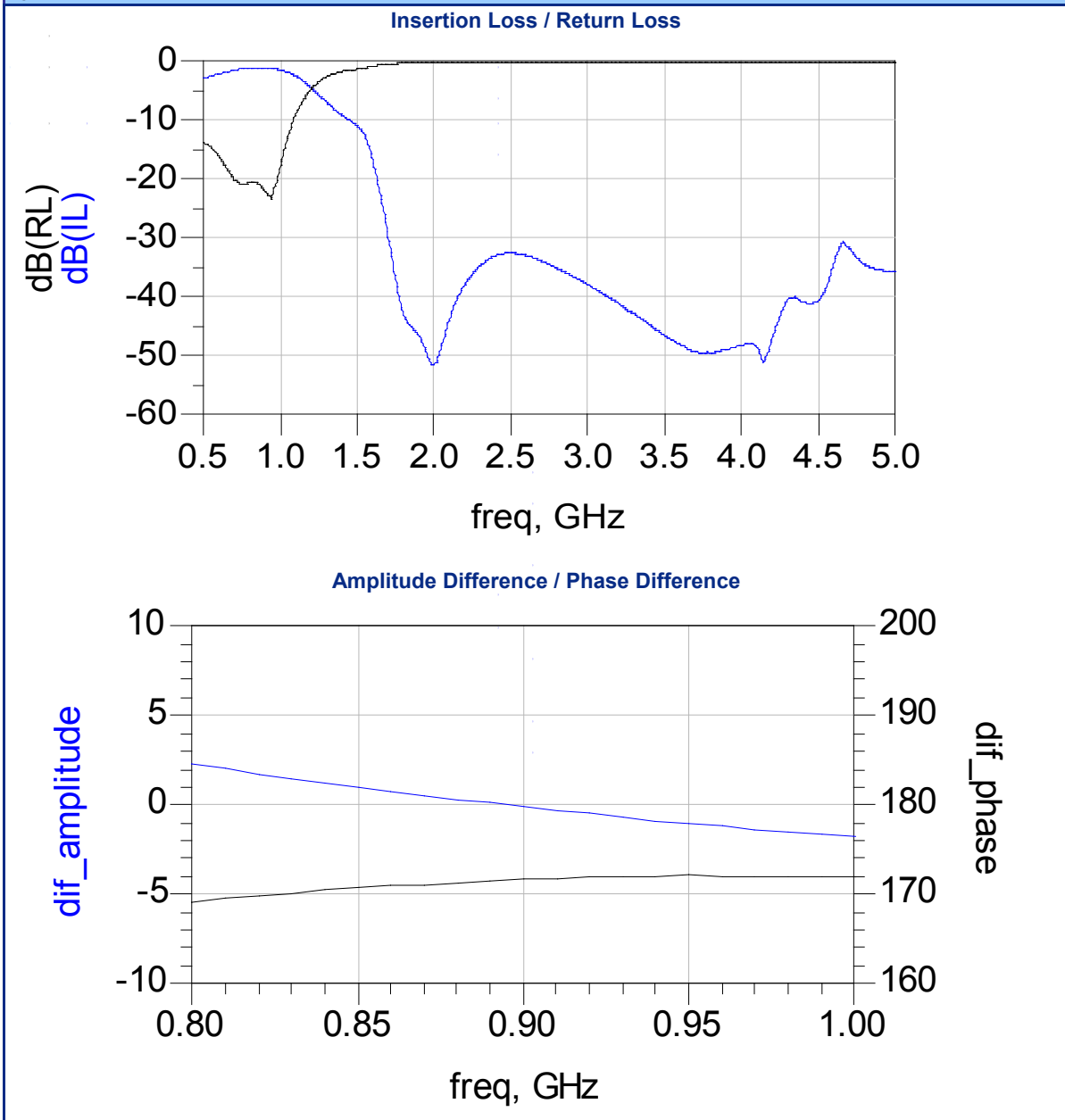
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Typical Electrical Performance (T=25°C)



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