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[0896FB15A0100E](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

High Frequency Ceramic Solutions

863-928MHz ISM Balun-Filter Integrated passive

P/N 0896FB15A0100

Detail Specification: 11/10/2010

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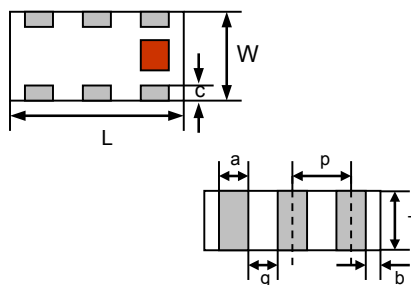
General Specifications

Part Number	0896FB15A0100		30 min.@1726~1856MHz
Frequency (MHz)	863 - 928	Attenuation (dB)	30 min.@2589~2784MHz
Unbalanced Impedence	50 Ω		30 min.@3452~3712MHz
Balanced Impedence	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° $\pm$ 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

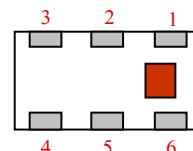
Mechanical Dimensions

	In	mm
L	0.079 $\pm$ 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 $\pm$ 0.004/-0.008	0.30 $\pm$ 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 Ω characteristic impedance, depending on PCB material and thickness.

Layout A

Layout B

Units: mm

100pF (EIA 0402 or 0603) DC Blocking

Option B

Pin#6 connected to ground.

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

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

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Preliminary *High Frequency Ceramic Solutions*

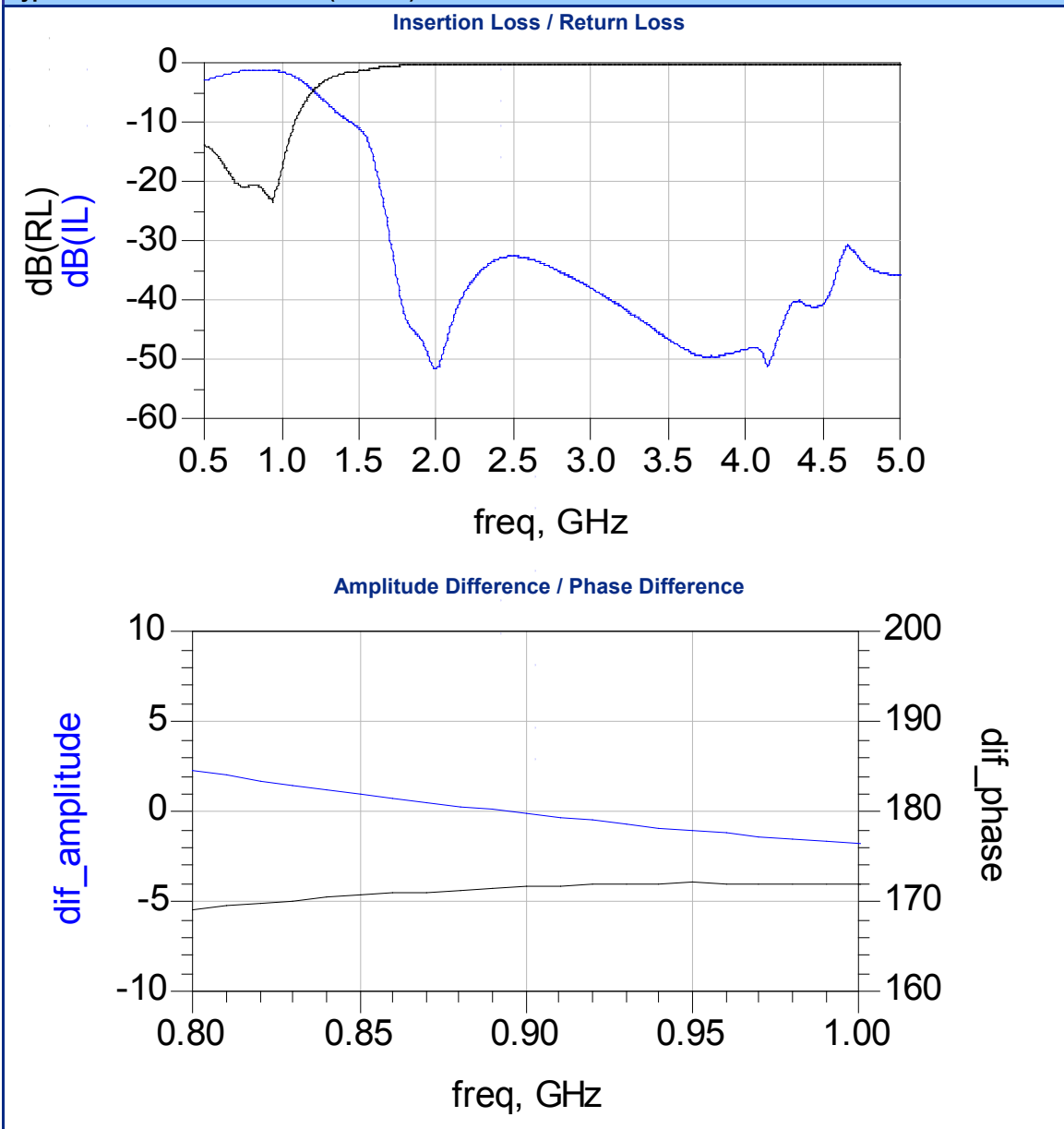
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Typical Electrical Performance (T=25°C)



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