

# "High Frequency Ceramic Solutions"

## 2.45 GHz Balun / Filter Combination

P/N 2450FB15A050

Detail Specification: 12/14/05

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### General Specifications

Part Number	2450FB15A050
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 $\Omega$
Differential Balanced Imp.	50 $\Omega$
Insertion Loss	1.5 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° $\pm$ 10
Amplitude Difference	1.0 dB max.

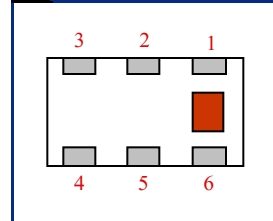
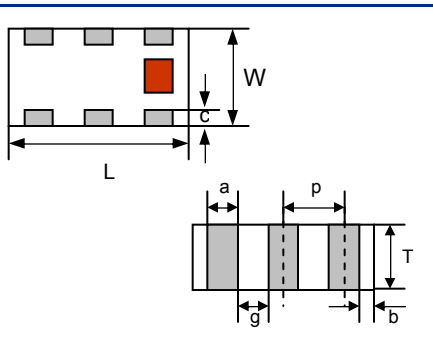
Attenuation (dB)	28 min. @ 2 x F0
	20 min. @ 3 X F0
Operating and Storage Temp.	-40 to +85°C
Reel Quantity	3,000
Power Capacity	1.0 watt max.

### Terminal Configuration

No.	Function
1	Unbalanced Port
2	GND; or DC Feed + RF GND
3	Balanced Port
4	Balanced Port
5	GND
6	NC

### 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	0.037 $\pm$ 0.004	0.95 $\pm$ 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

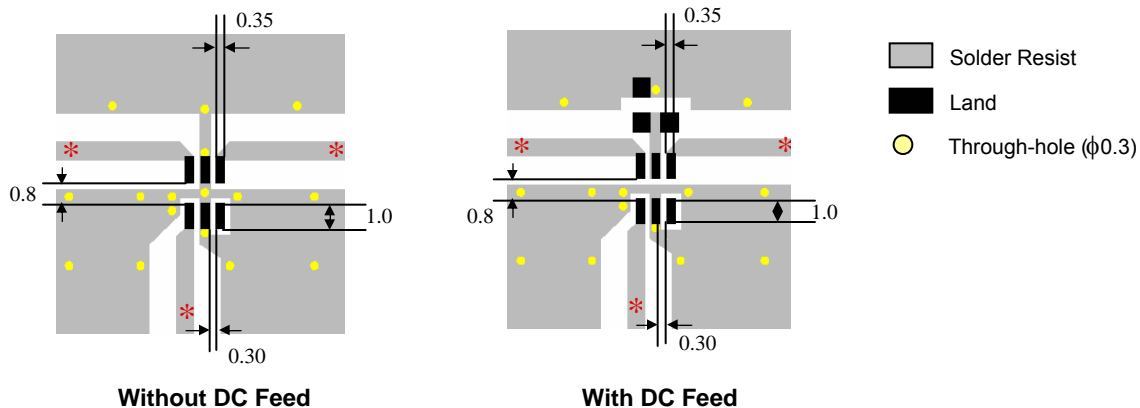


### Mounting Considerations

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

\*\* By-pass capacitor should be connected when feeding DC power.

Units: mm



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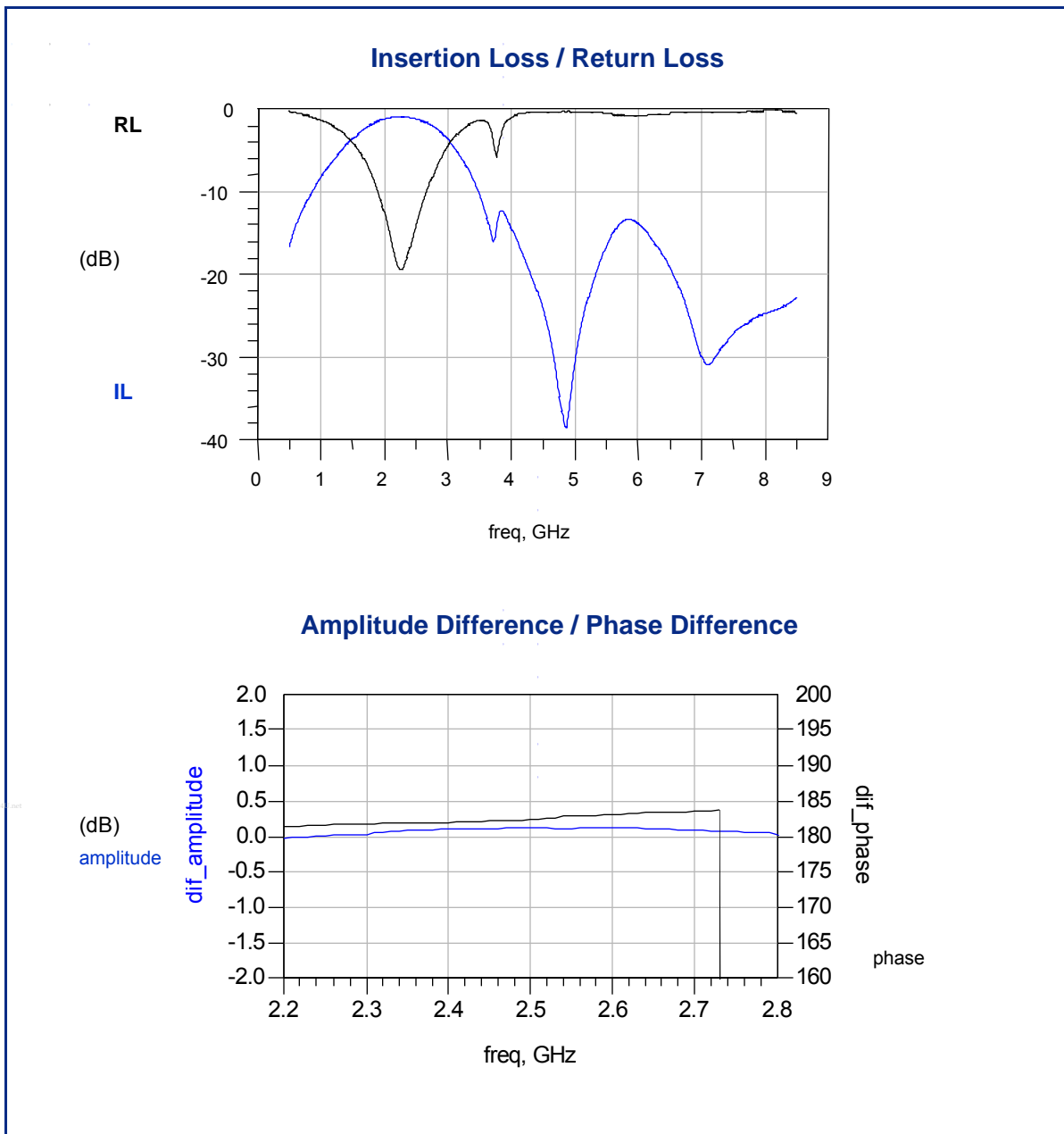
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### Typical Electrical Performance (T=25°C)



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931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

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