

# PRELIMINARY

## 2.45GHz Balun/Filter Combination

**P/N 2450FB39C100**

Detail Specification: 06/05/07

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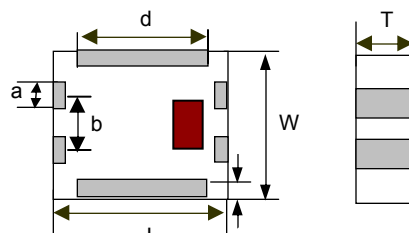
### General Specifications

<b>Part Number</b>	2450FB39C100
<b>Frequency (MHz)</b>	2400 - 2500
<b>Unbalanced Impedance</b>	50 $\Omega$
<b>Balanced Impedance</b>	100 $\Omega$
<b>Insertion Loss</b>	3.0 dB max.
<b>Return Loss</b>	9.5 dB min.
<b>Phase Difference</b>	180° $\pm$ 8
<b>Amplitude Difference</b>	1.0 dB max.

<b>Attenuation (dB)</b>	45 min. @ 880~960MHz
	38 min. @ 1710~1880 MHz
	35 min. @ 1880~1990 MHz
	20 min. @ 2110~2170 MHz
	30 min. @ 4800~5000MHz
<b>Operating + Storage Temp</b>	-40 to +85°C
<b>Reel Quantity</b>	3000
<b>Power Capacity</b>	1 watt max.
<b>MSL</b>	2

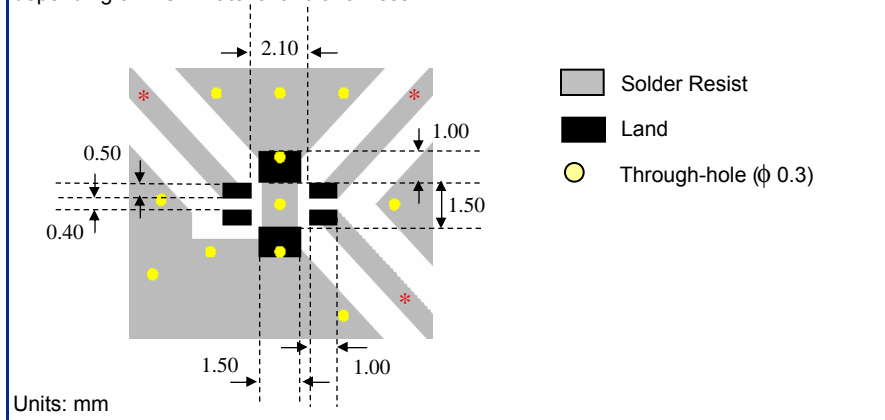
### Mechanical Dimensions

	In	mm
<b>L</b>	0.098 $\pm$ 0.008	2.50 $\pm$ 0.20
<b>W</b>	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
<b>T</b>	0.043 $\pm$ 0.004	1.10 $\pm$ 0.10
<b>a</b>	0.016 $\pm$ 0.008	0.40 $\pm$ 0.20
<b>b</b>	0.031 $\pm$ 0.008	0.80 $\pm$ 0.20
<b>c</b>	0.012 +.004/-0.008	0.30 +0.1/-0.2
<b>d</b>	0.075 $\pm$ 0.008	1.90 $\pm$ 0.20



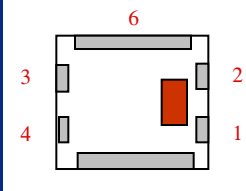
### Mounting Considerations

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



### Terminal Configuration

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



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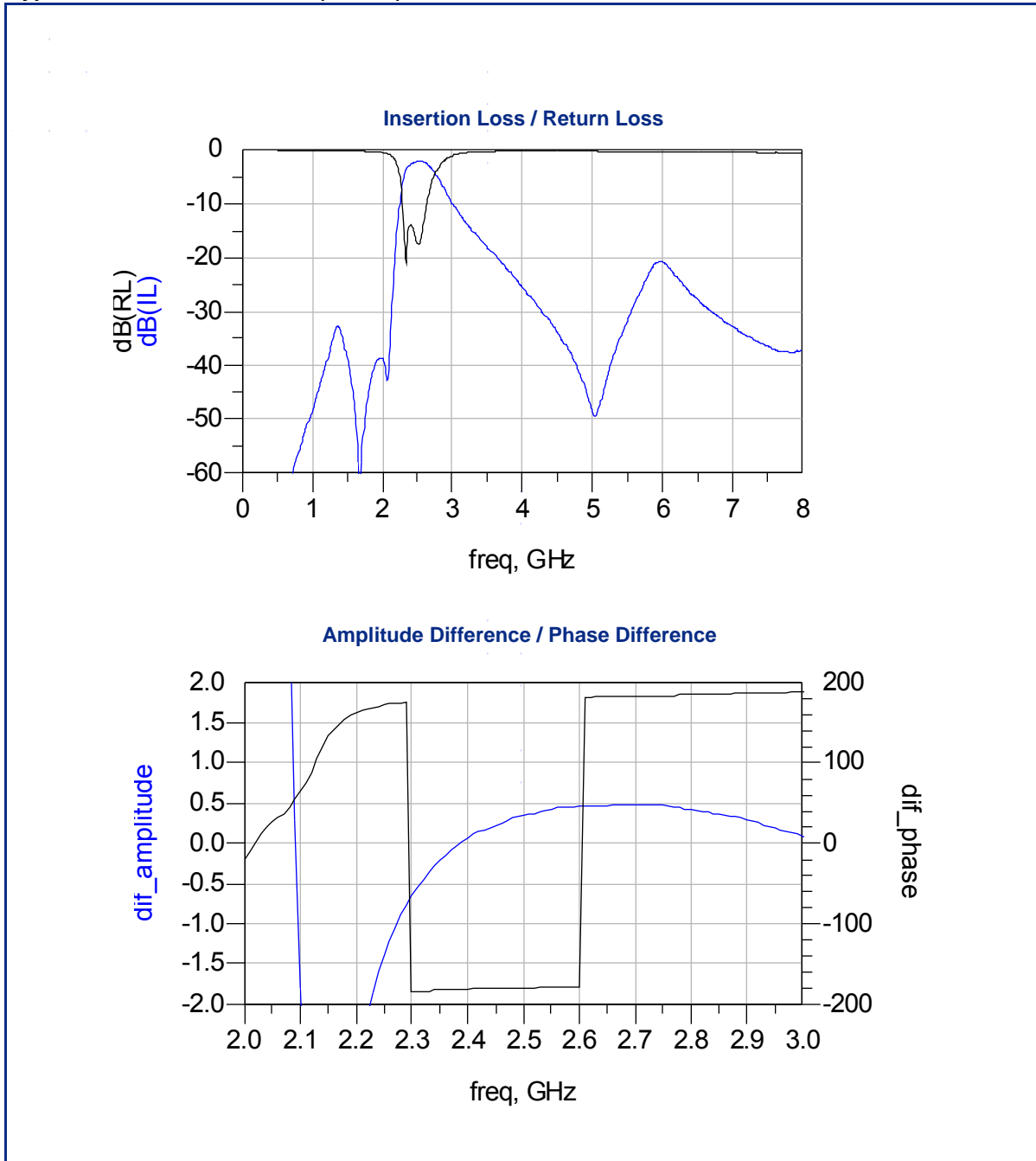
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## Typical Electrical Performance (T=25°C)



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