

PRELIMINARY

2.45GHz Balun/Filter Combination

P/N 2450FB39C100

Detail Specification: 06/05/07

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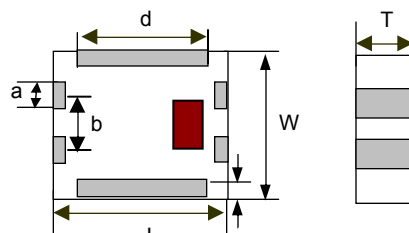
General Specifications

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

Attenuation (dB)	45 min.@ 880~960MHz
	38 min.@1710~1880 MHz
	35 min.@1880~1990 MHz
	20 min.@2110~2170 MHz
	30 min.@4800~5000MHz
	30 ref.@7200~7500MHz
Operating + Storage Temp	-40 to +85°C
Reel Quantity	3000
Power Capacity	1 watt max.
MSL	2

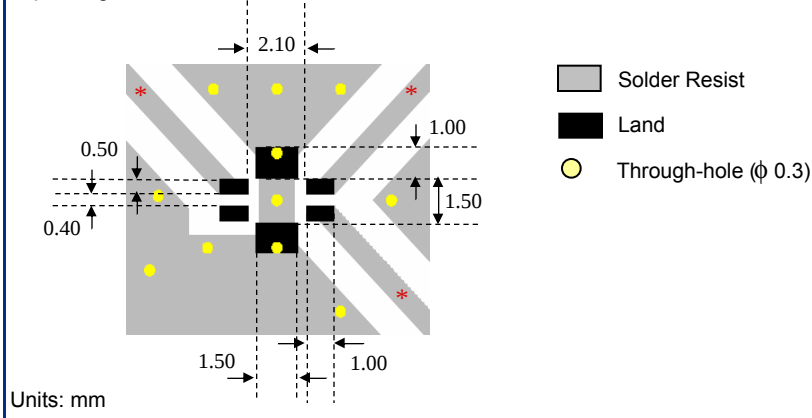
Mechanical Dimensions

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



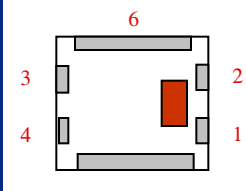
Mounting Considerations

* Line width should be designed to match 50 Ω 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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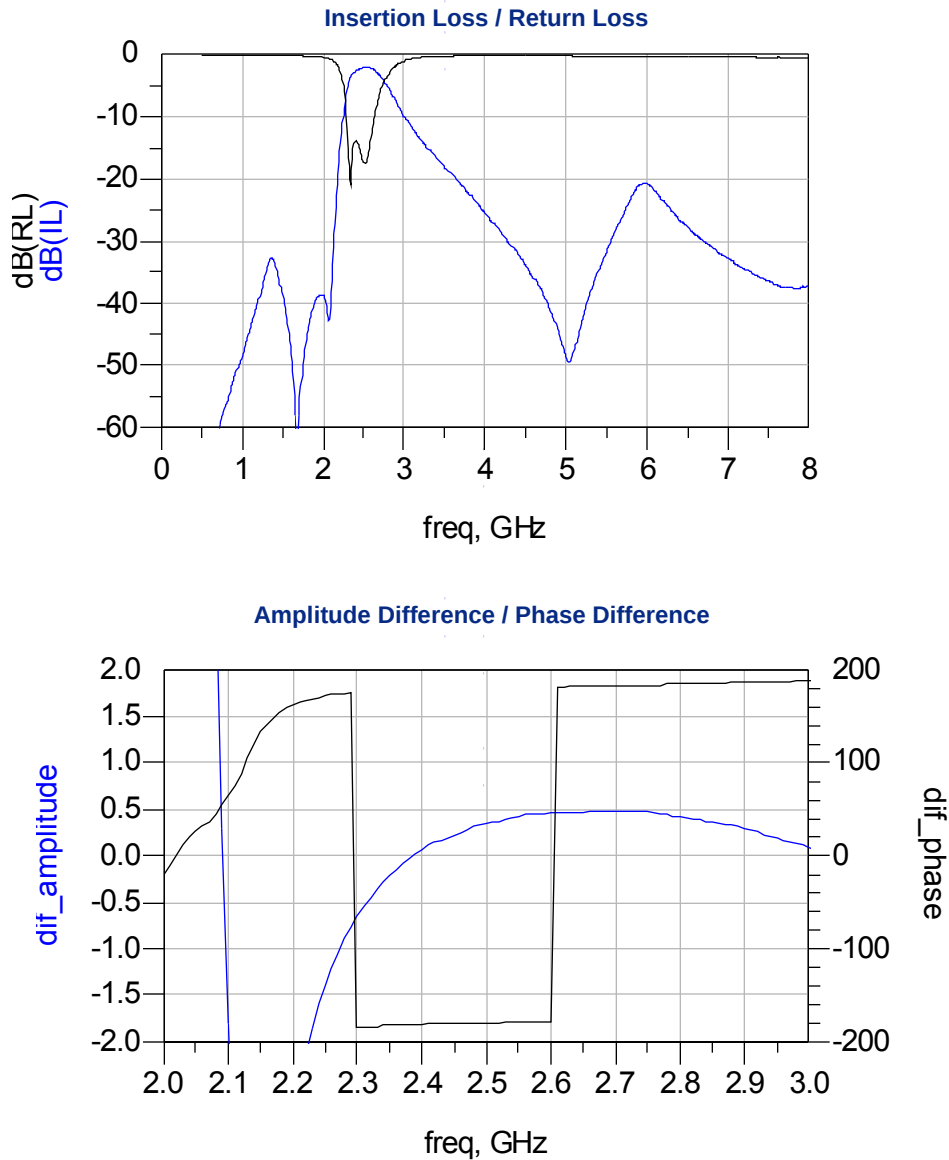
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Typical Electrical Performance (T=25°C)



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