

"High Frequency Ceramic Solutions"

2.45 GHz Balun / Filter Combination

P/N 2450FB39A050

Detail Specification: 12/14/05

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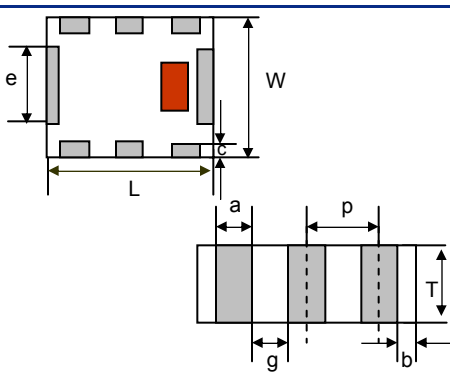
General Specifications

Part Number	2450FB39A050
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	50 Ω
Insertion Loss	2.0 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° $\pm$ 10
Amplitude Difference	1.0 dB max.

Attenuation (dB)	35 min. @ 880~960MHz
	30 min. @ 1710~1910 MHz
	30 min. @ 4800~5000MHz
	25 min. @ 7200~7500MHz
Operating and Storage Temp.	-40 to +85°C
Reel Quantity	3,000
Power Capacity	1.0 watt max.

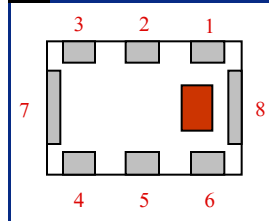
Mechanical Dimensions

	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 $\pm$ 0.004	0.40 $\pm$ 0.10
b	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
c	0.012 $\pm$ 0.004/-0.008	0.30 $\pm$ 0.1/-0.2
e	0.039 $\pm$ 0.004	1.00 $\pm$ 0.10
g	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
p	0.028 $\pm$ 0.004	0.70 $\pm$ 0.10



Terminal Configuration

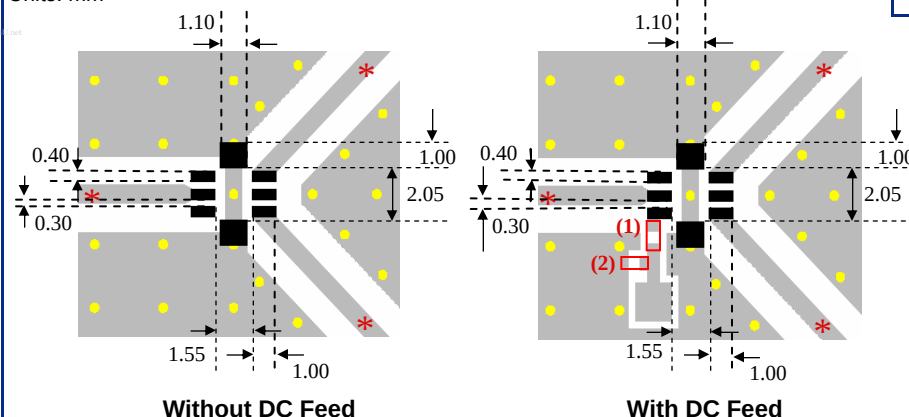
No.	Function
1	NC
2	Unbalanced Port
3	Open or DC Feed
4	Balanced Port
5	NC
6	Balanced Port
7	GND
8	GND



Mounting Considerations

Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Units: mm



- Solder Resist
- Land
- Through-hole ($\phi 0.3$)
- (1) Choke Inductor = 8.2nH
- (2) Decoupling Capacitor = 100pF

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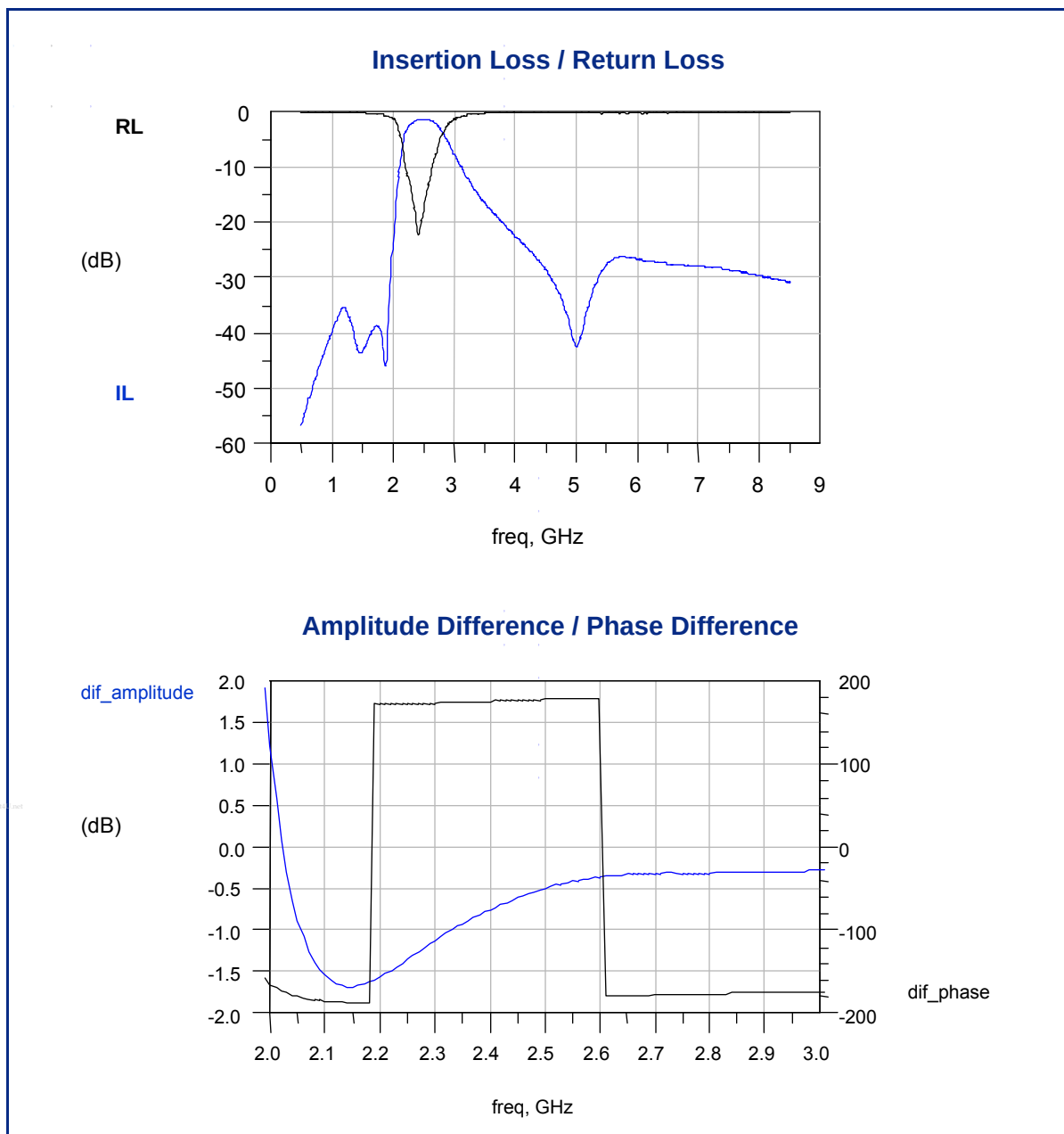
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Typical Electrical Performance (T=25°C)



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