

"High Frequency Ceramic Solutions"

Preliminary

2.45 GHz Balun/Filter Combination

P/N 2450FB39A0150

Detail Specification: 01/06/09

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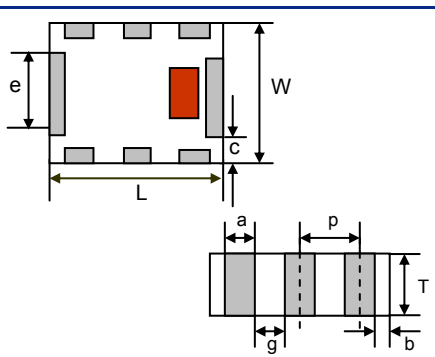
General Specifications

Part Number	2450FB39A0150
Frequency (MHz)	2400 - 2500
Unbalanced Impedance	50 Ω
Balanced Impedance	150 Ω
Insertion Loss	2.5 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
Reel Quantity	3000
Power Capacity	1 watt max.
Operating Temperature	-40 to +85°C
Storage Temperature	+5 ~ +35°C, Humidity 45~75%RH, 12 mos. Max

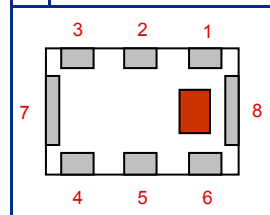
Mechanical Dimensions

	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 +.004/- .008	0.30 +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



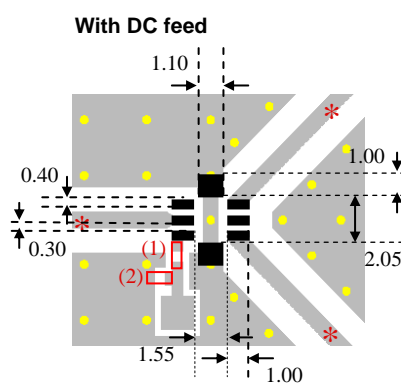
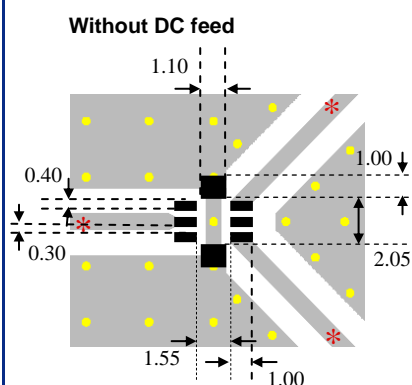
Terminal Configuration

No.	Function
1	NC
2	Unbalanced Port
3	NC 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.



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

Units: mm

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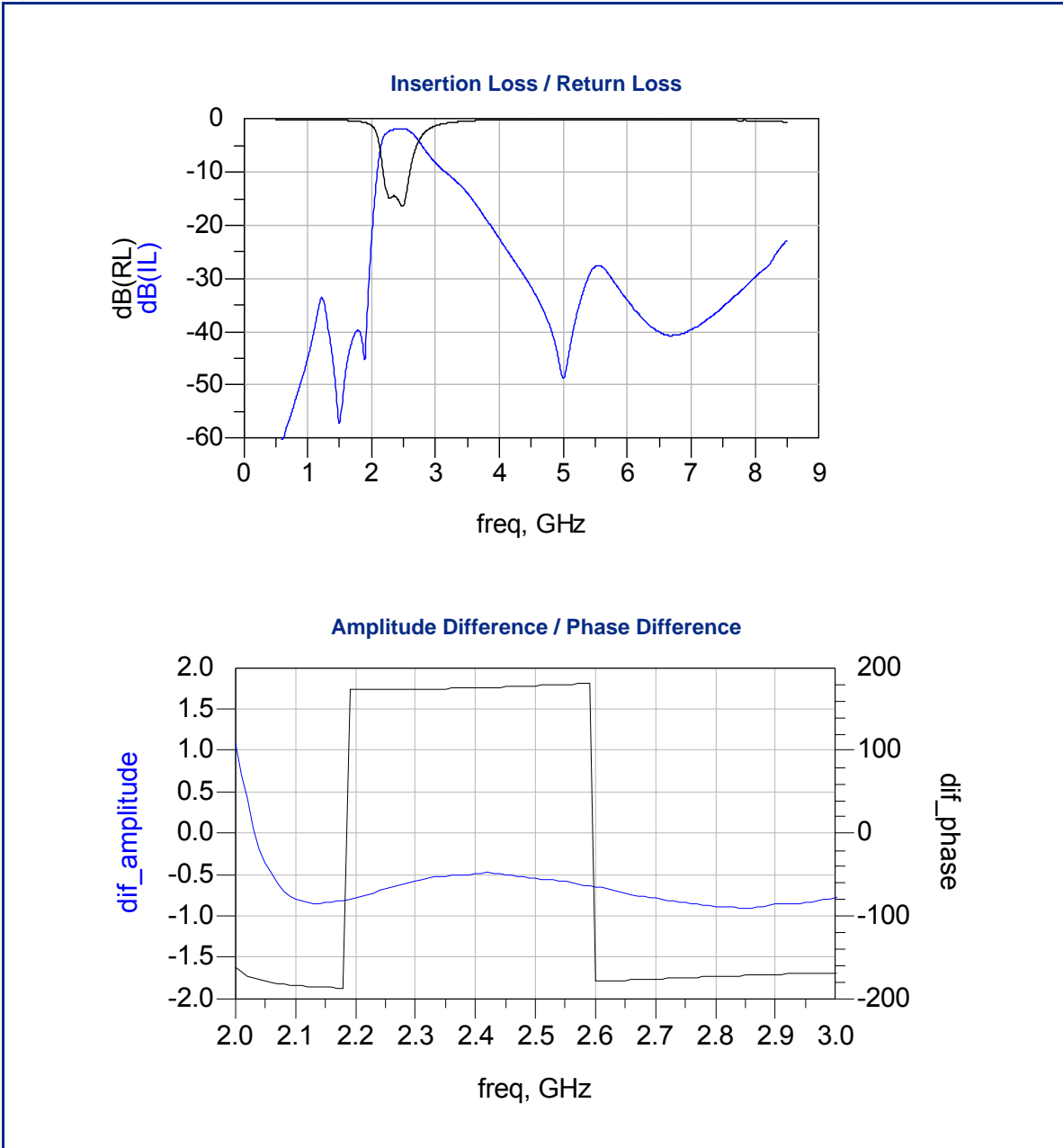


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Typical Electrical Performance (T=25°C)



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