

High Frequency Ceramic Solutions

2.45 GHz Balun / Filter Combination

P/N 2450FB14K0001

Detail Specification: 02/12/07

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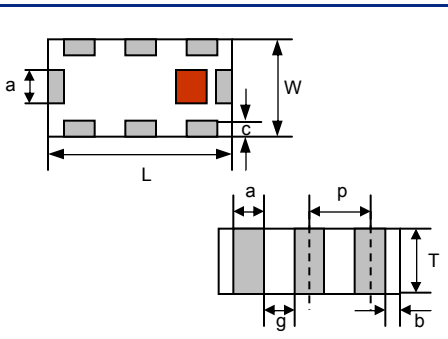
General Specifications

Part Number	2450FB14K0001
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	Conjugate match to CSR BC03, BC04
Insertion Loss	3.5 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° $\pm$ 10
Amplitude Difference	1.5 dB max.

Attenuation (dB)	45 min. @ 880~960MHz
	25 min. @ 1710~1880 MHz
	10 min. @ 2100 - 2170MHz
	25 min. @ 4800~5000MHz
	20 min. @ 7200~7500MHz
Operating and Storage Temp.	-40 to +85°C
Reel Quantity	4000
Power Capacity	1.0 watt max.

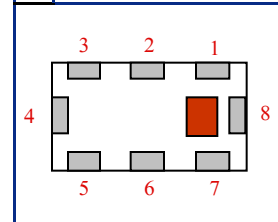
Mechanical Dimensions

	In	mm
L	0.063 $\pm$ 0.004	1.60 $\pm$ 0.10
W	0.031 $\pm$ 0.004	0.80 $\pm$ 0.10
T	0.024 $\pm$ 0.004	0.60 $\pm$ 0.10
a	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
b	0.008 +.004/-.006	0.20 +0.1/-0.15
c	0.006 $\pm$ 0.004	0.15 $\pm$ 0.10
g	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
p	0.020 $\pm$ 0.002	0.50 $\pm$ 0.05



Terminal Configuration

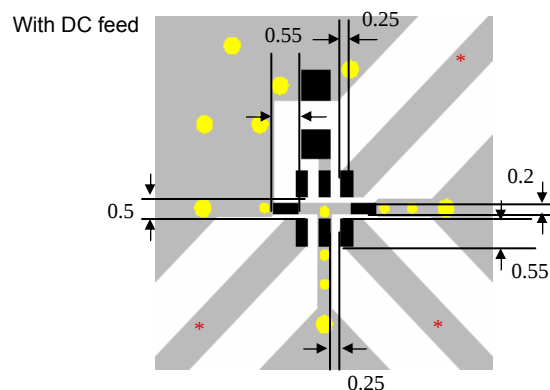
No.	Function
1	Unbalanced Port
2	NC or DC Feed
3	NC
4	GND
5	Balanced Port
6	GND
7	Balanced Port
8	GND



Mounting Considerations

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

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



- Solder Resist
- Land
- Through-hole (ϕ 0.3/0.2)

Units: mm

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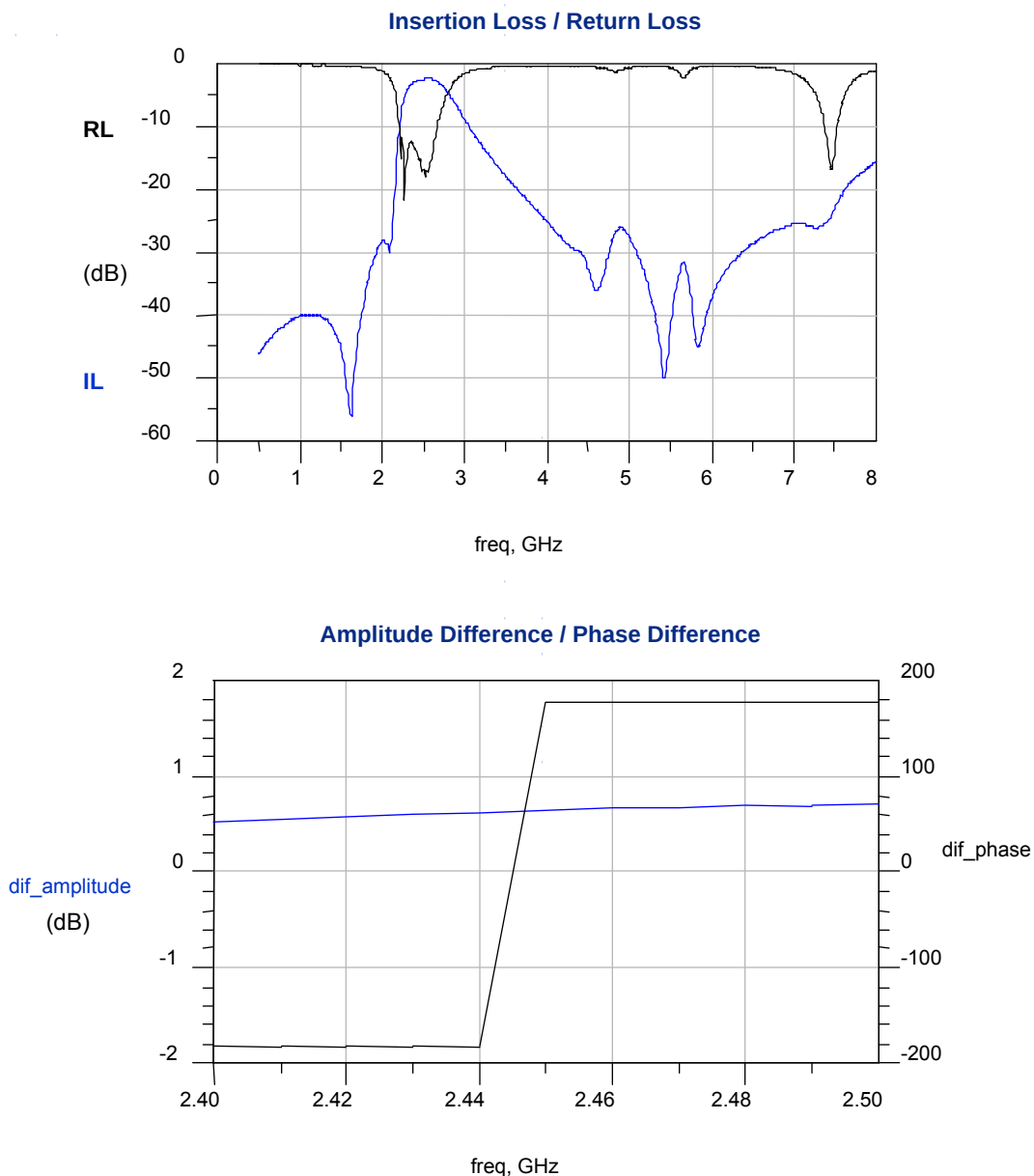
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Typical Electrical Performance (T=25°C)

* Note: The balanced ports (pins 5 & 7) are terminated with a balanced impedance of $28+j64$.



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