

PRELIMINARY

2.45 GHz Balun / Filter Combination

P/N 2450FB15K0001

Detail Specification: 05/11/06

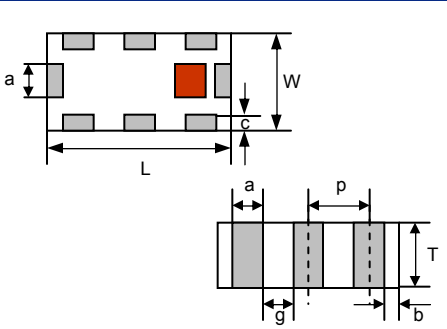
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General Specifications

Part Number	2450FB15K0001	Attenuation (dB)	45 min.@ 880~960MHz
Frequency (MHz)	2400~2500		30 min.@1710~1880 MHz
Unbalanced Impedance	50 Ω		30 min.@1880~1990MHz
Differential Balanced Imp.	Conjugate match to CSR BC03, BC04		20 min.@2110~2170MHz
Insertion Loss	3.8 dB max.		30 min.@4800~5000MHz
Return Loss	9.5 dB min.		20 typ.@7200~7500MHz
Phase Difference	180° ± 10	Operating and Storage Temp.	-40 to +85°C
Amplitude Difference	1.5 dB max.	Reel Quantity	4,000
		Power Capacity	1.0 watt max.

Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.028 ± 0.004	0.70 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 +.004/-0.008	0.30 +0.1/-0.2
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05



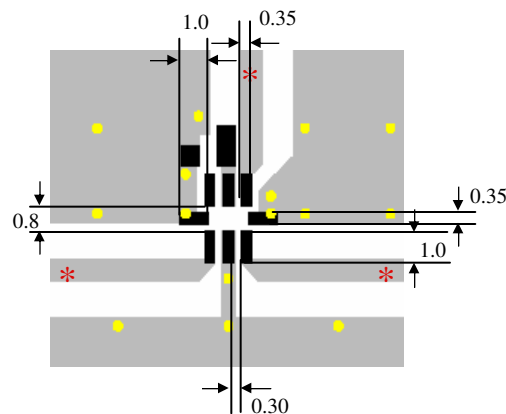
Terminal Configuration

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

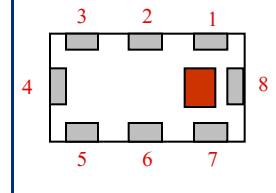
Mounting Considerations

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

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



Units: mm



- Solder Resist
- Land
- Through-hole (φ0.3)

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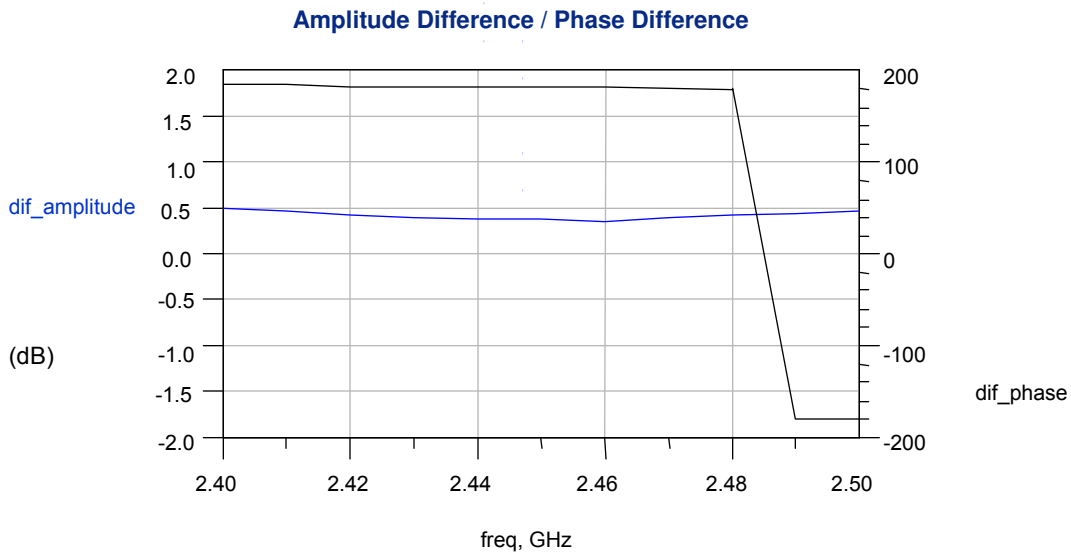
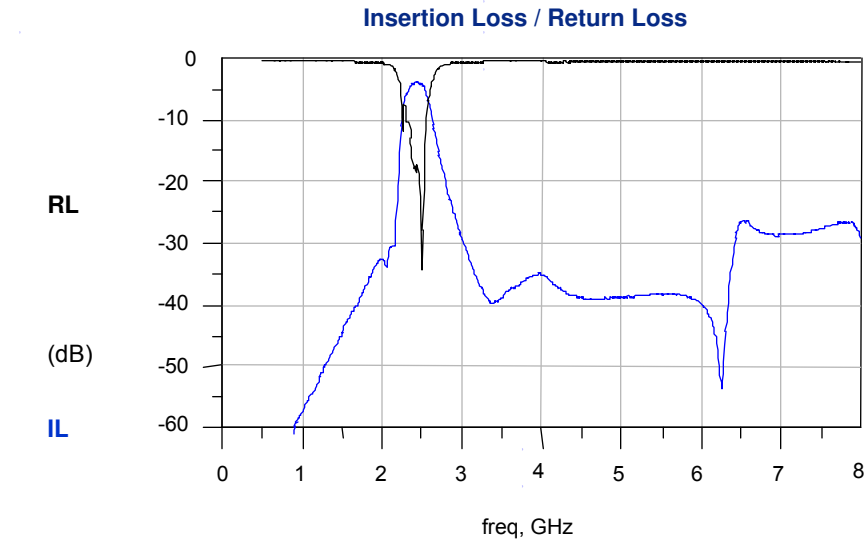
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Typical Electrical Performance (T=25°C)

* Note: The balanced ports (pins 5 & 7) are terminated with a balanced impedance of $22-j*84$.



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