

# PRELIMINARY

## 2.45 GHz Balun / Filter Combination

P/N 2450FB15K0001

Detail Specification: 05/11/06

Page 1 of 2

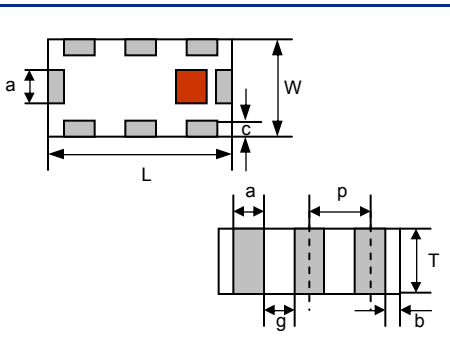
### General Specifications

Part Number	2450FB15K0001
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	Conjugate match to CSR BC03, BC04
Insertion Loss	3.8 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° ± 10
Amplitude Difference	1.5 dB max.

Attenuation (dB)	45 min. @ 880~960MHz
	30 min. @ 1710~1880 MHz
	30 min. @ 1880~1990MHz
	20 min. @ 2110~2170MHz
	30 min. @ 4800~5000MHz
20 typ. @ 7200~7500MHz	
Operating and Storage Temp.	-40 to +85°C
Reel Quantity	4,000
Power Capacity	1.0 watt max.

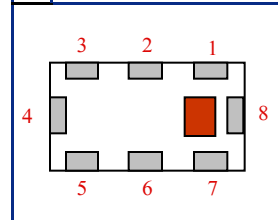
### Mechanical Dimensions

	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

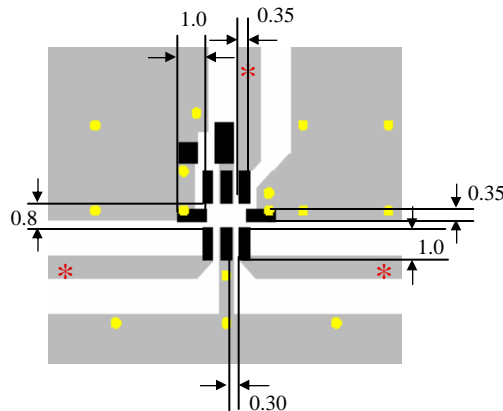
No.	Function
1	Unbalanced Port
2	NC or DC Feed
3	NC or DC Feed
4	GND
5	Balanced Port
6	GND
7	Balanced Port
8	GND



### 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.



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

Units: mm

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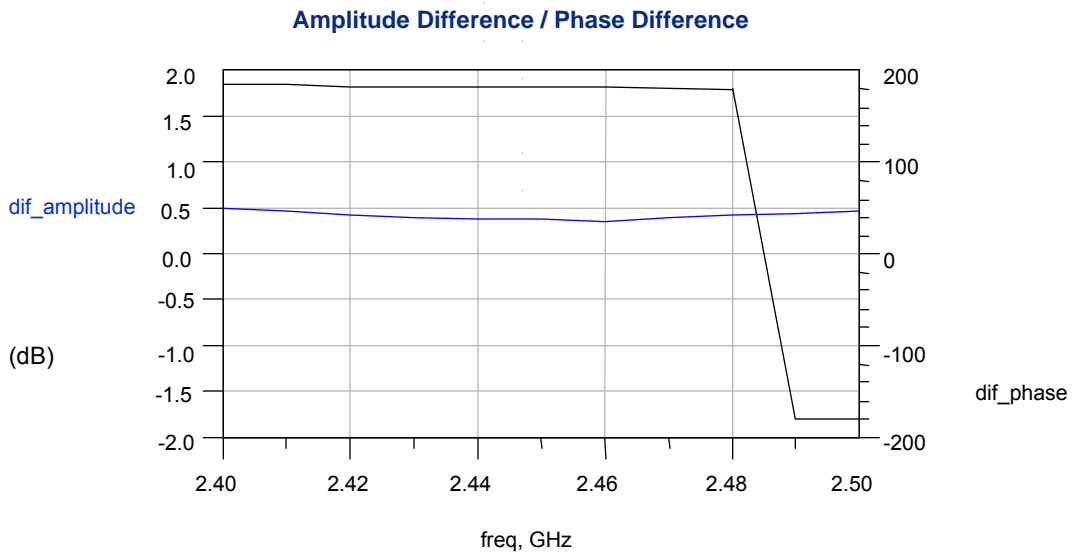
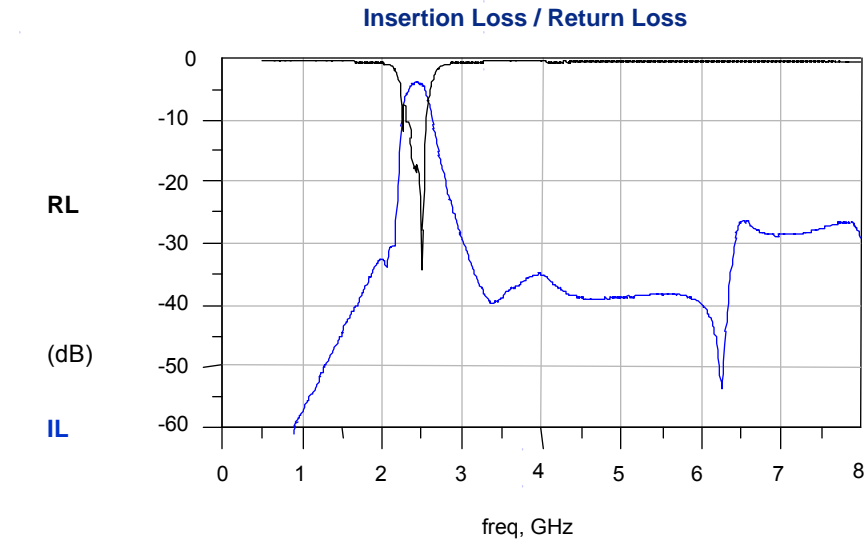
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Page 2 of 2

### 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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