

High Frequency Ceramic Solutions

2.45 GHz Balun / Filter Combination

P/N 2450FB15K0004

Detail Specification: 07/17/09

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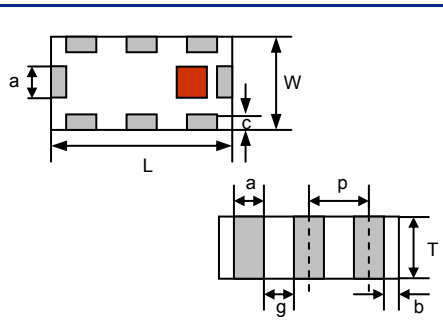
General Specifications

Part Number	2450FB15K0004
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	Conjugate match to CSR BC03, BC04
Insertion Loss	3.2 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° \pm 10
Amplitude Difference	1.5 dB max.

Attenuation (dB)	48 min.@ 880~960MHz
	30 min.@1710~1880 MHz
	30 min.@1880~1990MHz
	20 min.@4800~5000MHz
	20 min.@7200~7500MHz
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Hum. 45 to 75%RH, 12 mos. Max
Power Capacity	1 Watt max.
Reel Quantity	4000

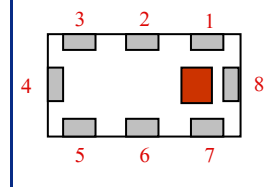
Mechanical Dimensions

	In	mm
L	0.079 \pm 0.008	2.00 \pm 0.20
W	0.049 \pm 0.008	1.25 \pm 0.20
T	0.028 \pm 0.004	0.70 \pm 0.10
a	0.012 \pm 0.004	0.30 \pm 0.10
b	0.008 \pm 0.004	0.20 \pm 0.10
c	0.012 +.004/- .008	0.30 +0.1/-0.2
g	0.014 \pm 0.004	0.35 \pm 0.10
p	0.026 \pm 0.002	0.65 \pm 0.05



Terminal Configuration

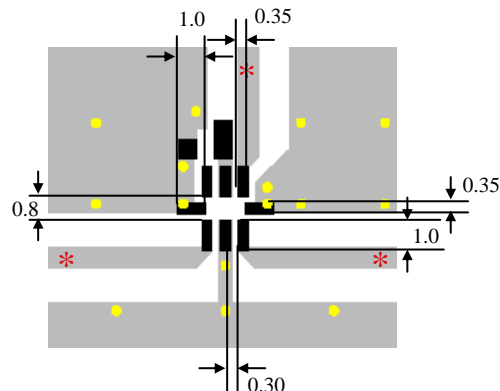
No.	Function
1	Unbalanced Port
2	NC or DC Feed
3	NC
4	GND
5	Balanced Port
6	GND
7	Balanced Port
8	GND



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)

Units: mm

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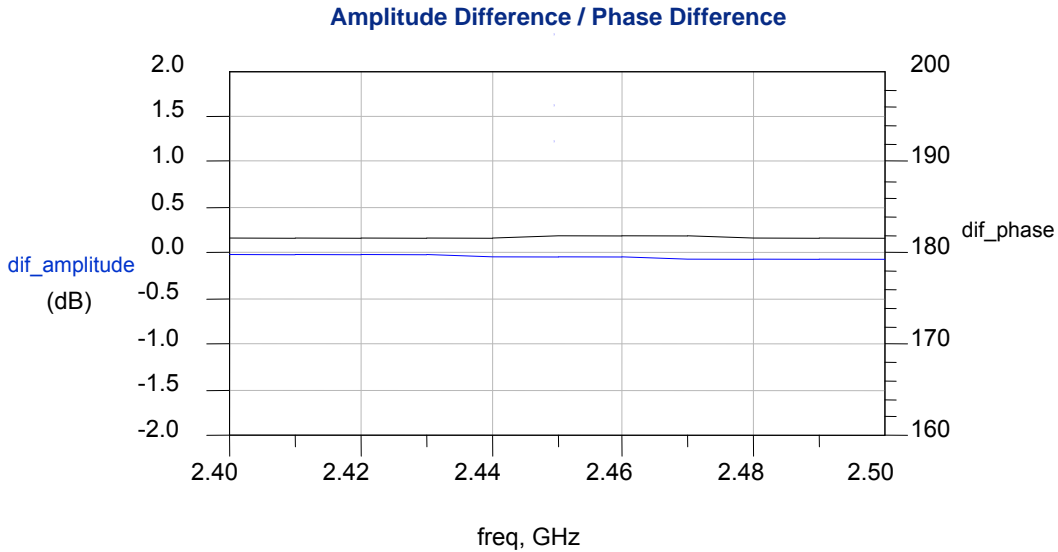
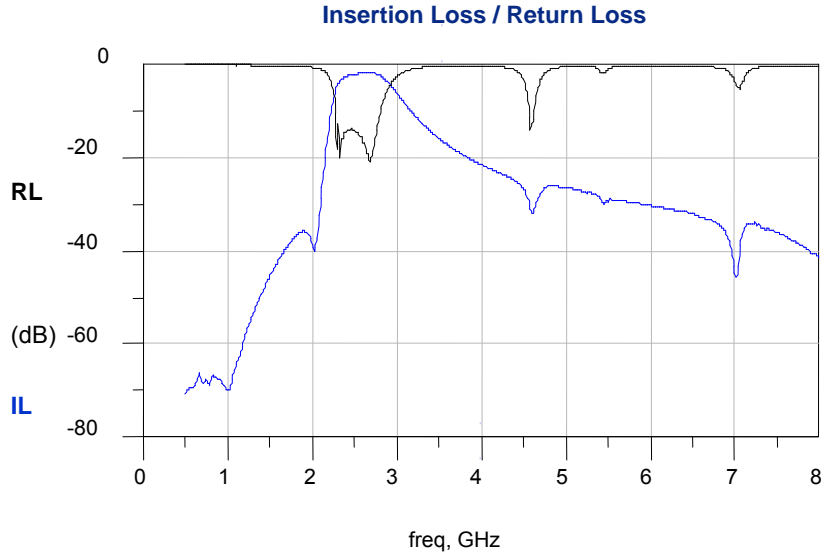
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Typical Electrical Performance (T=25°C)

* Note: The balanced ports (pins 5 & 7) are terminated with a balanced impedance of $28 - j 64$.



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