

High Frequency Ceramic Solutions

2.45 GHz, conjugate match for CSR Chipsets BC 04, 05

P/N 2450FB15K0003

Detail Specification: 07/02/08

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General Specifications

Part Number	2450FB15K0003
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	Conjugate match to CSR BC04, BC05 (20-j50)
Insertion Loss	3 dB max.
Return Loss	9.54 dB min.
Phase Difference	180° $\pm$ 10
Amplitude Difference	1.5 dB max.

Attenuation (dB)	48 min. @ 880~960MHz
	30 min. @ 1710~1880 MHz
	25 min. @ 1880~1990MHz
	20 min. @ 4800~5000MHz
	20 min. @ 7200~7500MHz
Operating and Storage Temp.	+5 to +35°C, Hum. 45 to 75%RH
Storage Period	12 mos. 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 $\pm$ 0.004/-0.008	0.30 $\pm$ 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

Case size/type 43-3

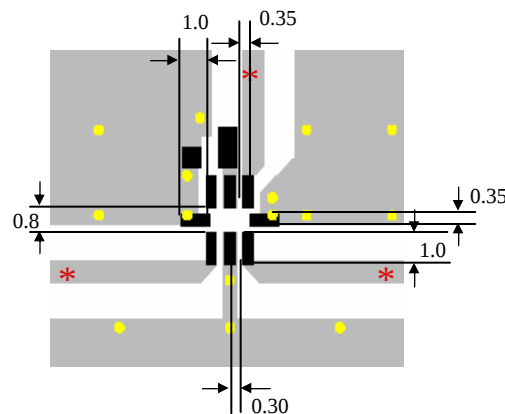
Terminal Configuration

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.



Units: mm

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

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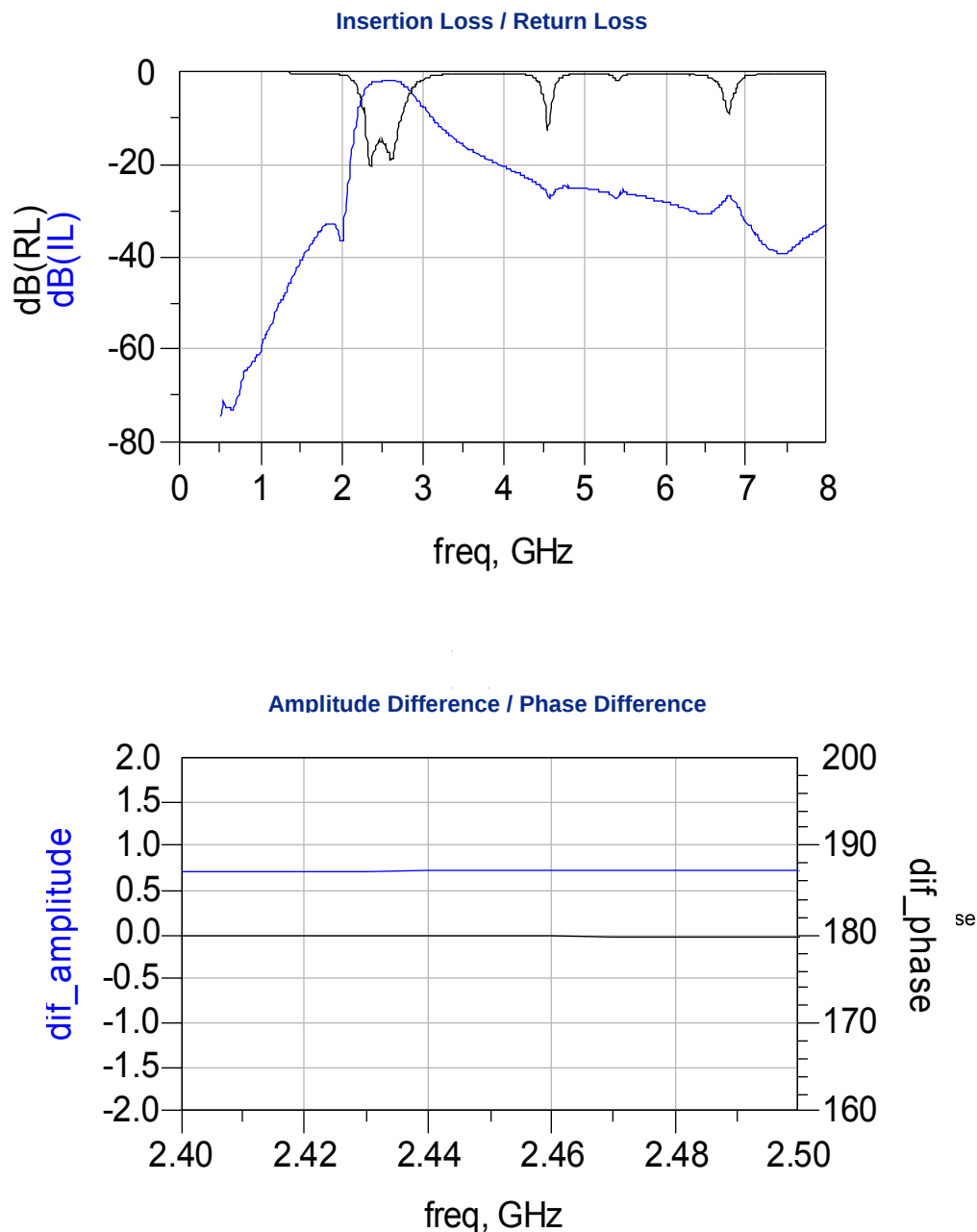
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Typical Electrical Performance (T=25°C)



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