

"High Frequency Ceramic Solutions"

Preliminary

2.45 GHz Balun / Filter Combination, conjugate match for MTK chipset P/N 2450FB15M0001

Detail Specification: 12/03/08

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General Specifications

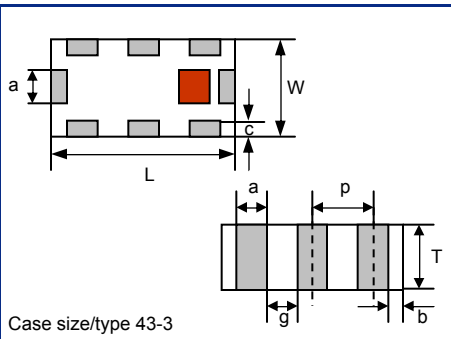
Part Number	2450FB15M0001
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Balanced Impedance	Conjugate match to MTK chipset
Insertion Loss	3 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° \pm 15
Amplitude Difference	2.0 dB max.

Attenuation (dB)	40 min.@ 880~960MHz
	35 min.@1710~1880 MHz
	25 min.@1880~1990MHz
	35 min.@4800~5000MHz
	25 min.@7200~7500MHz
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Humidity: 45-75%RH, 12 mos. Max
Input Power	1 Watt max.
Reel Quantity	4,000

Mechanical Dimensions

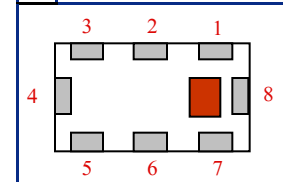
	In	mm
L	0.079 \pm 0.008	2.00 \pm 0.20
W	0.049 \pm 0.008	1.25 \pm 0.20
T	0.028 \pm 0.004	0.70 \pm 0.10
a	0.012 \pm 0.004	0.30 \pm 0.10
b	0.008 \pm 0.004	0.20 \pm 0.10
c	0.012 +.004/-0.008	0.30 +0.1/-0.2
g	0.014 \pm 0.004	0.35 \pm 0.10
p	0.026 \pm 0.002	0.65 \pm 0.05

Case size/type 43-3



Terminal Configuration

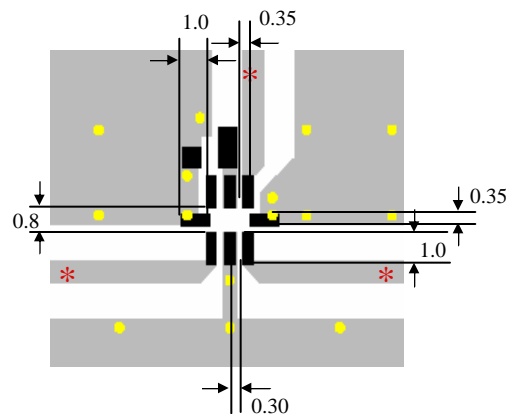
No.	Function
1	Unbalanced Port
2	NC or DC Feed
3	NC
4	GND
5	Balanced Port
6	GND
7	Balanced Port
8	GND



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.



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

Units: mm

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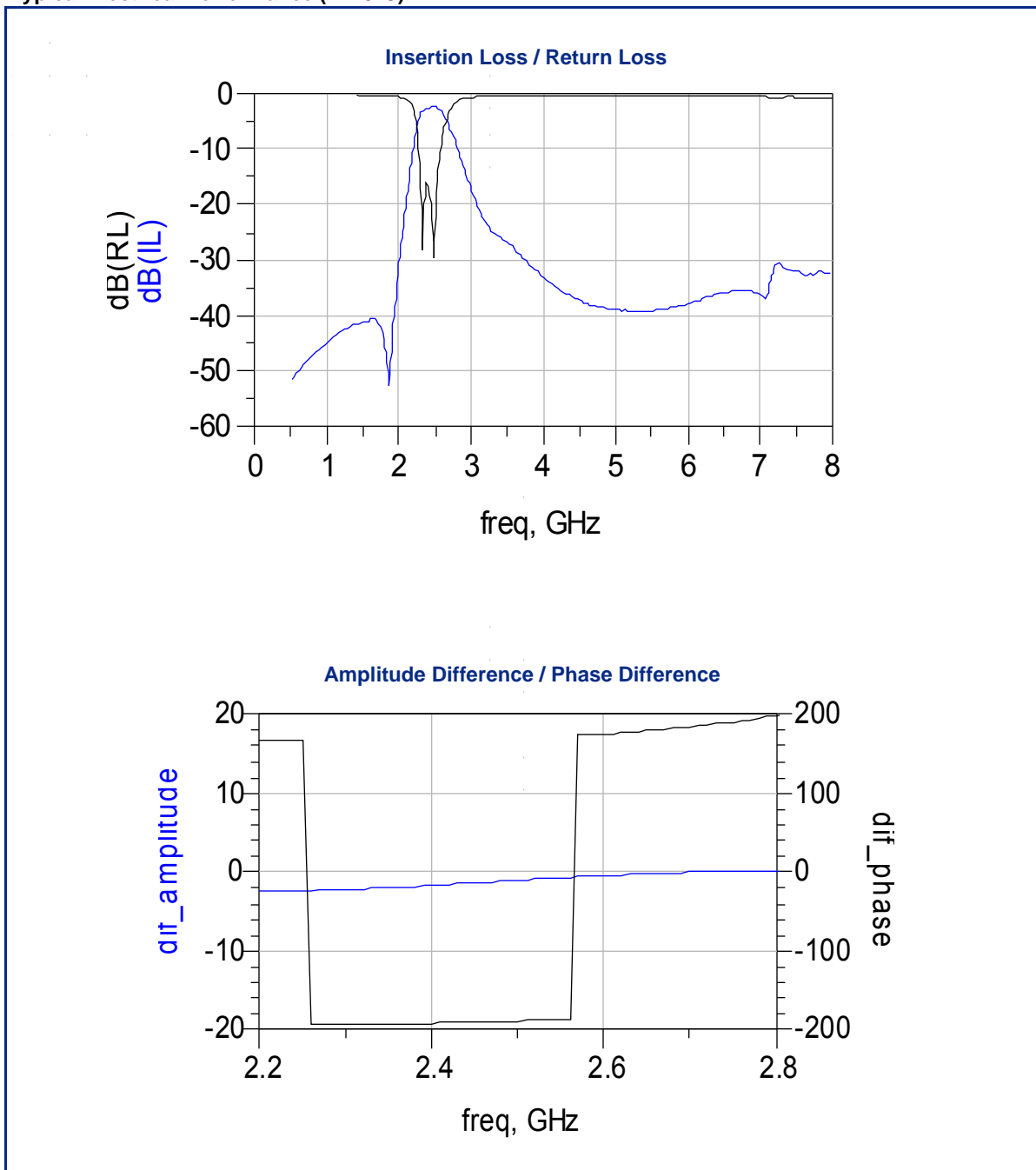
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Typical Electrical Performance (T=25°C)



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