

"High Frequency Ceramic Solutions"

2.45 GHz Balun / Filter Combination

P/N 2450FB39K001

Detail Specification: 12/19/05

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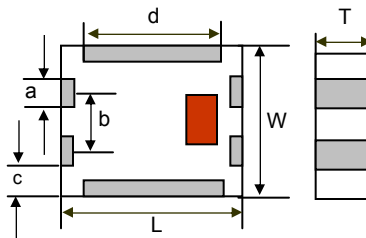
General Specifications

Part Number	2450FB39K001
Frequency (MHz)	2400~2500
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	22+j100 Conjugate match to CSR chipset
Insertion Loss	3.0 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° $\pm$ 8
Amplitude Difference	1.0 dB max.

Attenuation (dB)	45 min.@ 880~960MHz
	38 min.@1710~1880 MHz
	35 min.@1880~1990MHz
	20 min.@2110~2170MHz
	25 min.@4800~5000MHz
30 typ.@7200~7500MHz	
Operating and Storage Temp.	-40 to +85°C
Reel Quantity	3,000
Power Capacity	1.0 watt max.

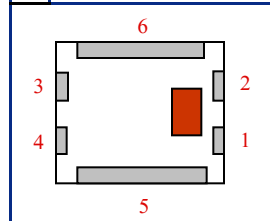
Mechanical Dimensions

	In	mm
L	0.098 $\pm$ 0.008	2.50 $\pm$ 0.20
W	0.079 $\pm$ 0.008	2.00 $\pm$ 0.20
T	0.043 $\pm$ 0.004	1.10 $\pm$ 0.10
a	0.016 $\pm$ 0.008	0.40 $\pm$ 0.20
b	0.031 $\pm$ 0.008	0.80 $\pm$ 0.20
c	0.012 $\pm$ 0.008	0.30 $\pm$ 0.1/-0.2
d	0.075 $\pm$ 0.008	1.90 $\pm$ 0.20



Terminal Configuration

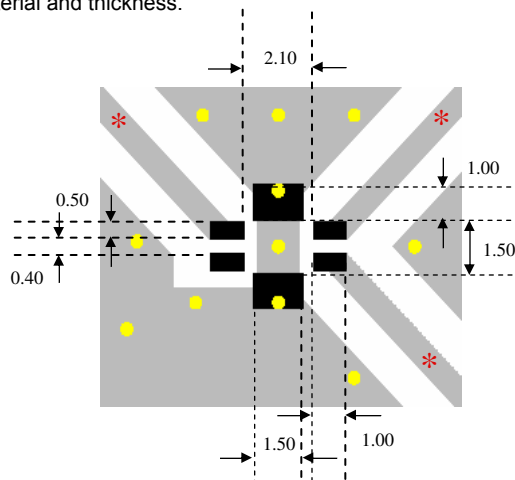
No.	Function
1	Unbalanced Port
2	DC
3	Balanced Port
4	Balanced Port
5	GND
6	GND



Mounting Considerations

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

Units: mm



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

Johanson Technology, Inc. reserves the right to make design changes without notice.
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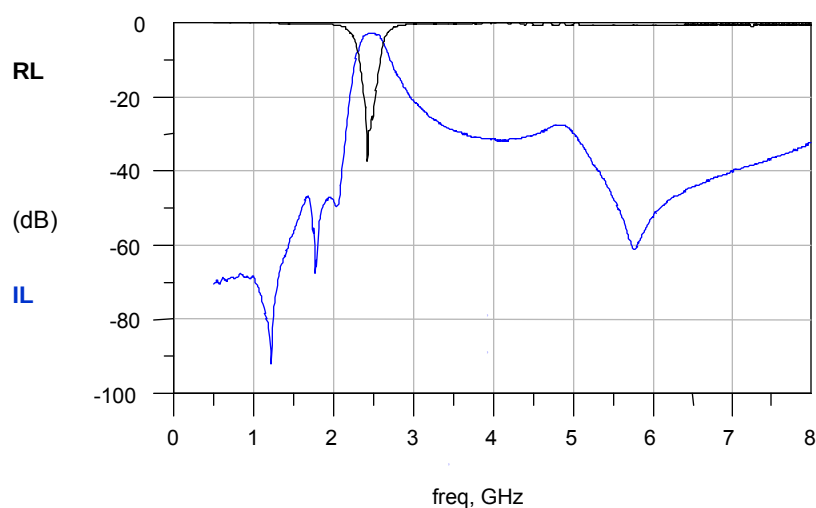
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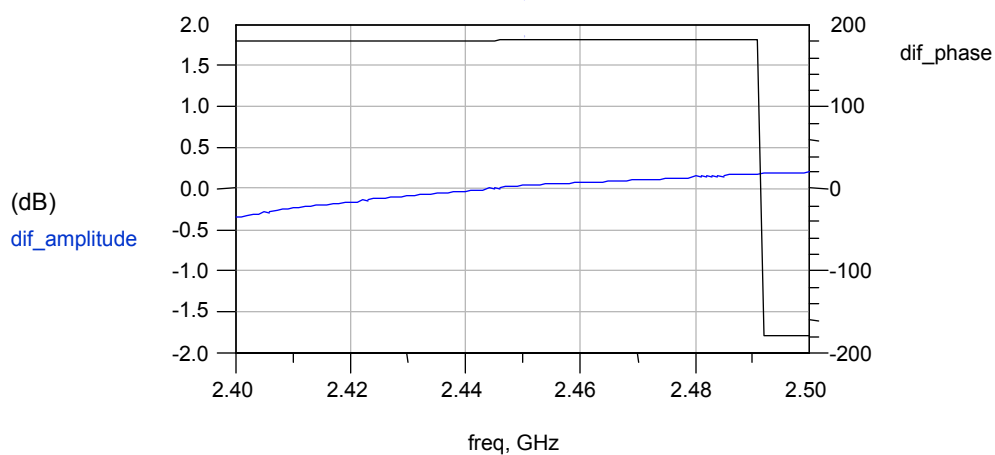
Typical Electrical Performance (T=25°C)

* Note: The balanced ports (pins 3 & 4) are terminated with a balanced impedance of $22-j100$.

Insertion Loss / Return Loss



Amplitude Difference / Phase Difference



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