"High Frequency Ceramic Solutions"

2.45 GHz Balun / Filter Combination — P/N 2450FB39B100

Detail Specification: 10/23/03

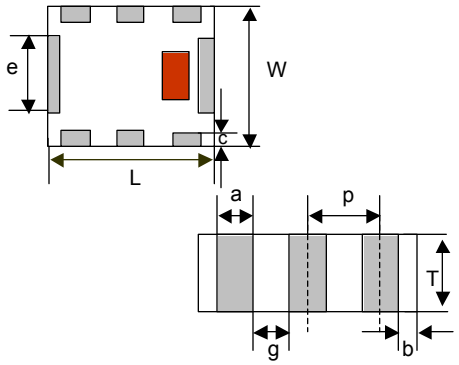
General Specifications

Part Number	2450FB39B100
Frequency (MHz)	2400~2500
Unbalanced Impedence	50 Ω
Differential Balanced Imp.	100 Ω
Insertion Loss	2.0 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° ± 10
Amplitude Difference	1.0 dB max.

Attenuation (dB)	35 min.@ 880~960MHz
	30 min.@1710~1910 MHz
	30 min.@4800~5000MHz
	25 min.@7200~7500MHz
Operating and Storage Temp.	-40 to +85°C
Reel Quantity	4,000
Power Capacity	1.0 watt max.

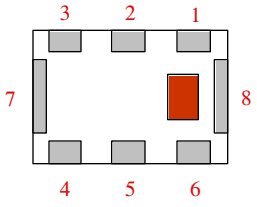
Mechanical Dimensions

	In	mm
L	0.098 ± 0.008	2.50 ± 0.20
W	0.079 ± 0.008	2.00 ± 0.20
T	0.047 ± 0.004	1.20 ± 0.10
a	0.016 ± 0.004	0.40 ± 0.10
b	0.014 ± 0.004	0.35 ± 0.10
c	0.012 +.004/-.008	0.30 +0.1/-0.2
e	0.039 ± 0.004	1.00 ± 0.10
g	0.012 ± 0.004	0.30 ± 0.10
p	0.028 ± 0.004	0.70 ± 0.10



Terminal Configuration

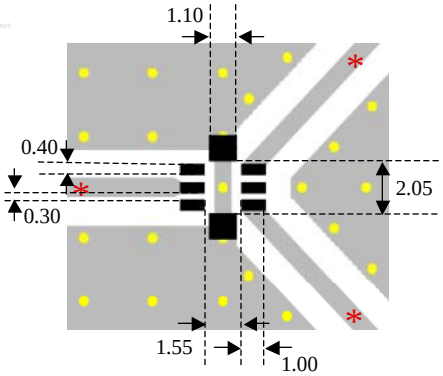
No.	Function
1	NC
2	Unbalanced Port
3	Open or DC Feed
4	Balanced Port
5	NC
6	Balanced Port
7	GND
8	GND



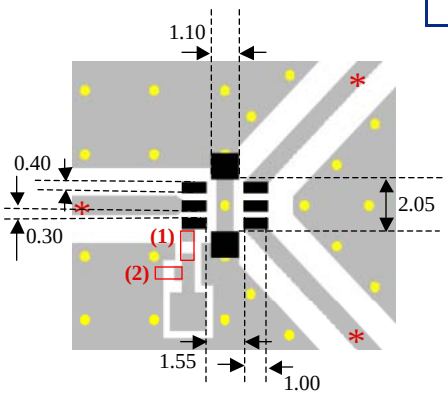
Mounting Considerations

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

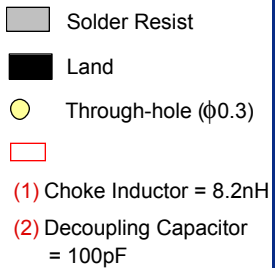
Units: mm



Without DC Feed



With DC Feed



JOHANSON TECHNOLOGY

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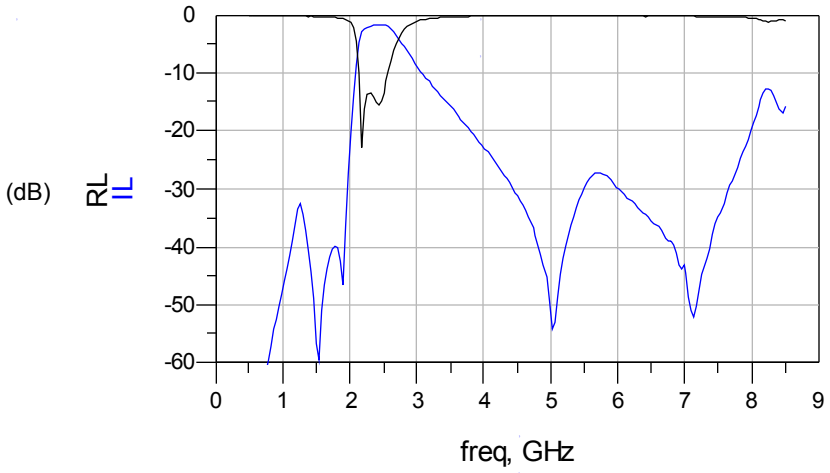
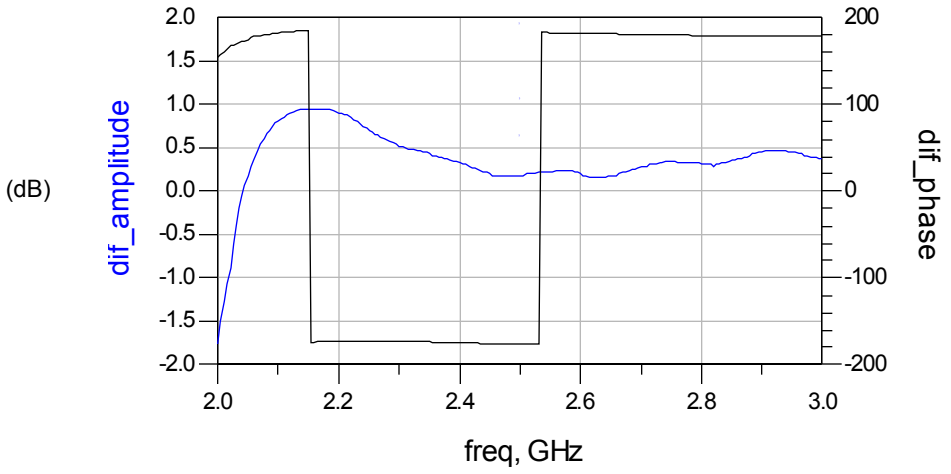
Detail Specification: 10/23/03

Typical Electrical Performance (T=25°C)

Insertion Loss / Return Loss



Amplitude Difference / Phase Difference



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