

"High Frequency Ceramic Solutions"

3.5 GHz (ETSI Band) Balun/Filter Combination

P/N 3500FB39A0050

Detail Specification: 08/14/07

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General Specifications

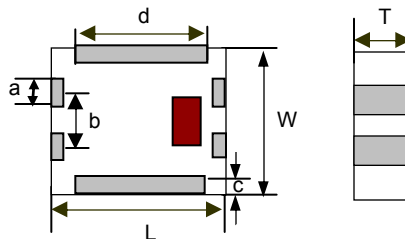
Part Number	3500FB39A0050
Frequency (MHz)	3400 - 3600
Unbalanced Impedance	50 Ω
Balanced Impedance	50 Ω
Insertion Loss	2.9 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° $\pm$ 12
Amplitude Difference	1.5 dB max.
Operating + Storage Temp.	-40 to +85°C
Reel Quantity	4000
Power Capacity	0.5 watt max.

Attenuation (dB)	35 min. @ 680~720MHz
	35 min. @ 1088~1152MHz
	45 min. @ 2040~2160MHz
	32 min. @ 2720~2880MHz
	15 min. @ 4080~4320MHz
	20 min. @ 4760~5040MHz
	25 min. @ 5440~5760MHz
	20 min. @ 7480~7920MHz
MSL	15 min. @ 8840~9360MHz
	2 *

* - 1 yr shelf life in bag; 1 week shelf life out of bag;
Vacuum reseal unused reel

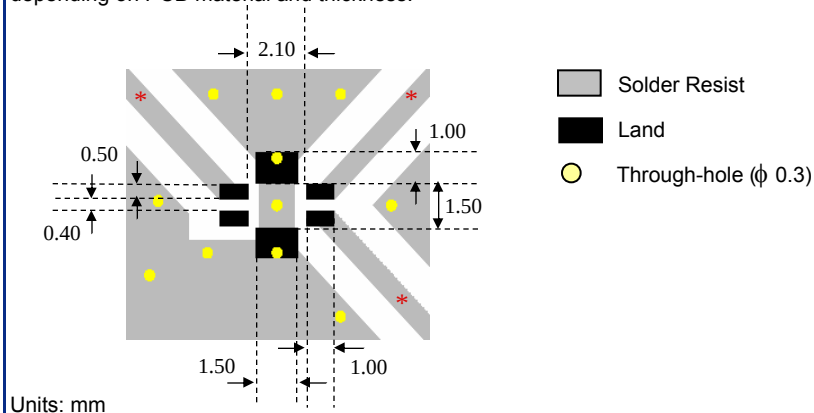
Mechanical Dimensions

	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 $\pm$ 0.004/-0.008	0.30 $\pm$ 0.1/-0.2
d	0.075 $\pm$ 0.008	1.90 $\pm$ 0.20



Mounting Considerations

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



Terminal Configuration

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

The diagram shows the terminal configuration of the component. It is a rectangular component with six terminals. Terminals 1 and 2 are on the right side, terminals 3 and 4 are on the left side, and terminals 5 and 6 are on the bottom side. The layout is shown with a central square pad and a cross-shaped pattern.

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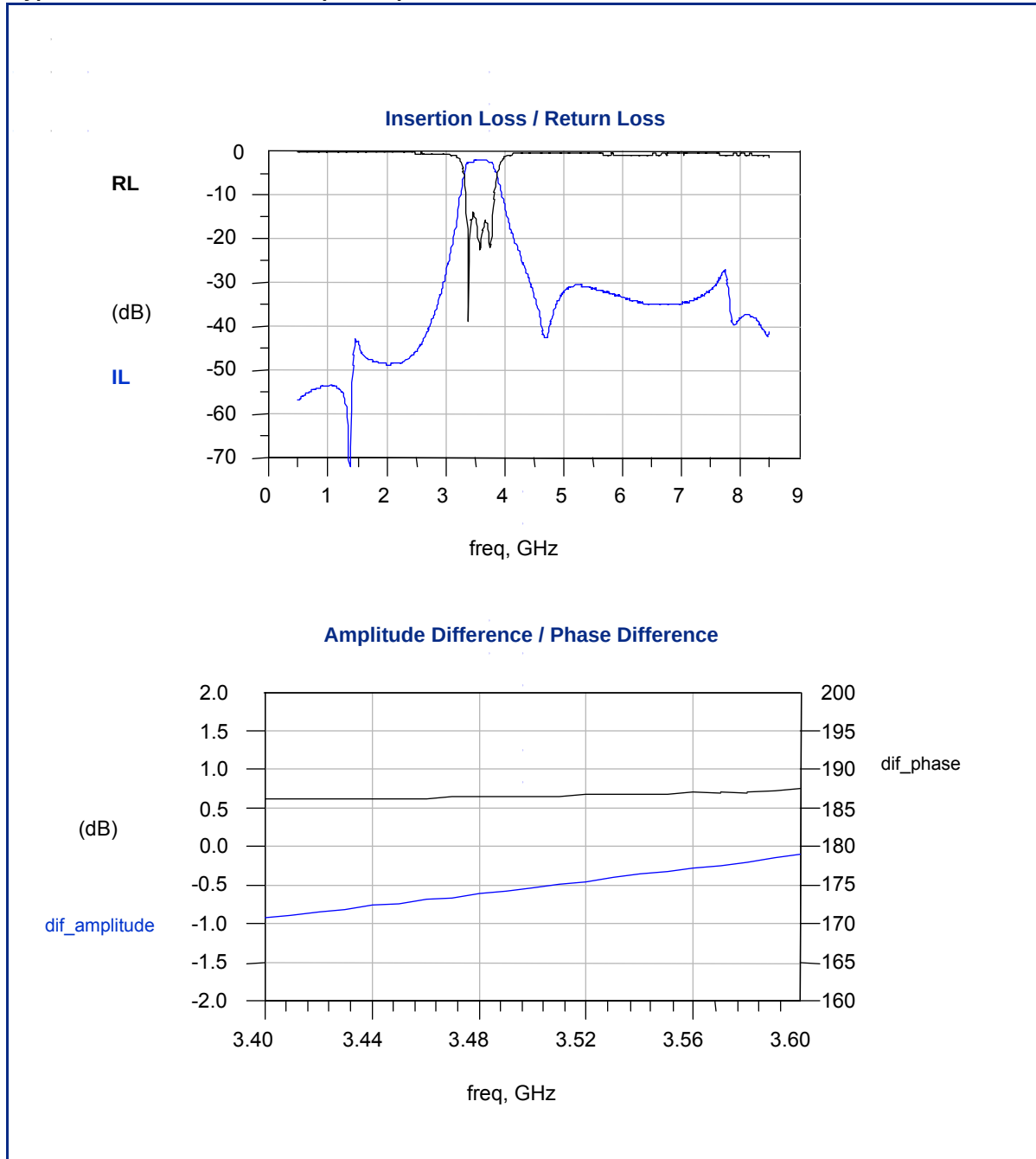
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Typical Electrical Performance (T=25°C)



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