

PRELIMINARY

3500 MHz Balun / Filter Combination

P/N 3500FB16A0100

Detail Specification: 07/10/06

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General Specifications

Part Number	3500FB16A0100
Frequency (MHz)	3400-3600
Unbalanced Impedance	50 Ω
Balanced Impedance	100 Ω
Insertion Loss	2.7 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° $\pm$ 10
Amplitude Difference	1.0 dB max.

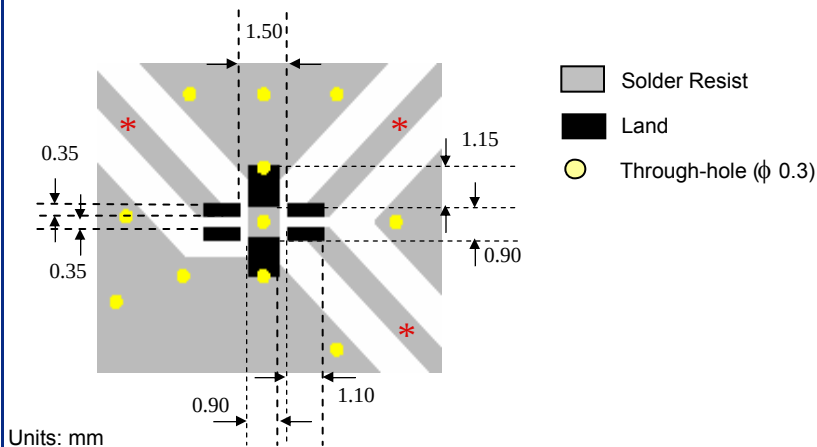
Attenuation (dB)	35 min.@660 ~ 720MHz	
	38 min.@1980 ~ 2160MHz	
	30min.@2640 ~ 2880MHz	
	17 min.@4620 ~ 5040MHz	
	27 min.@7250 ~ 7920MHz	
Operating and Storage Temp.		-40 to +85°C
Reel Quantity		4,000
Power Capacity		0.5 watt max.

Mechanical Dimensions

	In	mm	
L	0.079 $\pm$ 0.006	2.00 $\pm$ 0.15	
W	0.059 $\pm$ 0.006	1.50 $\pm$ 0.15	
T	0.035 $\pm$ 0.004	0.90 $\pm$ 0.10	
a	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10	
b	0.028 $\pm$ 0.006	0.70 $\pm$ 0.15	
c	0.010 $\pm$ 0.006	0.25 $\pm$ 0.15	
d	0.031 $\pm$ 0.006	0.80 $\pm$ 0.15	

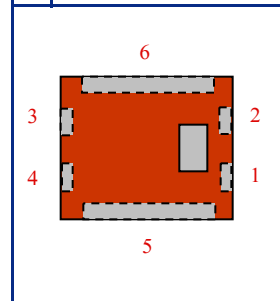
Mounting Considerations

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



Terminal Configuration

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



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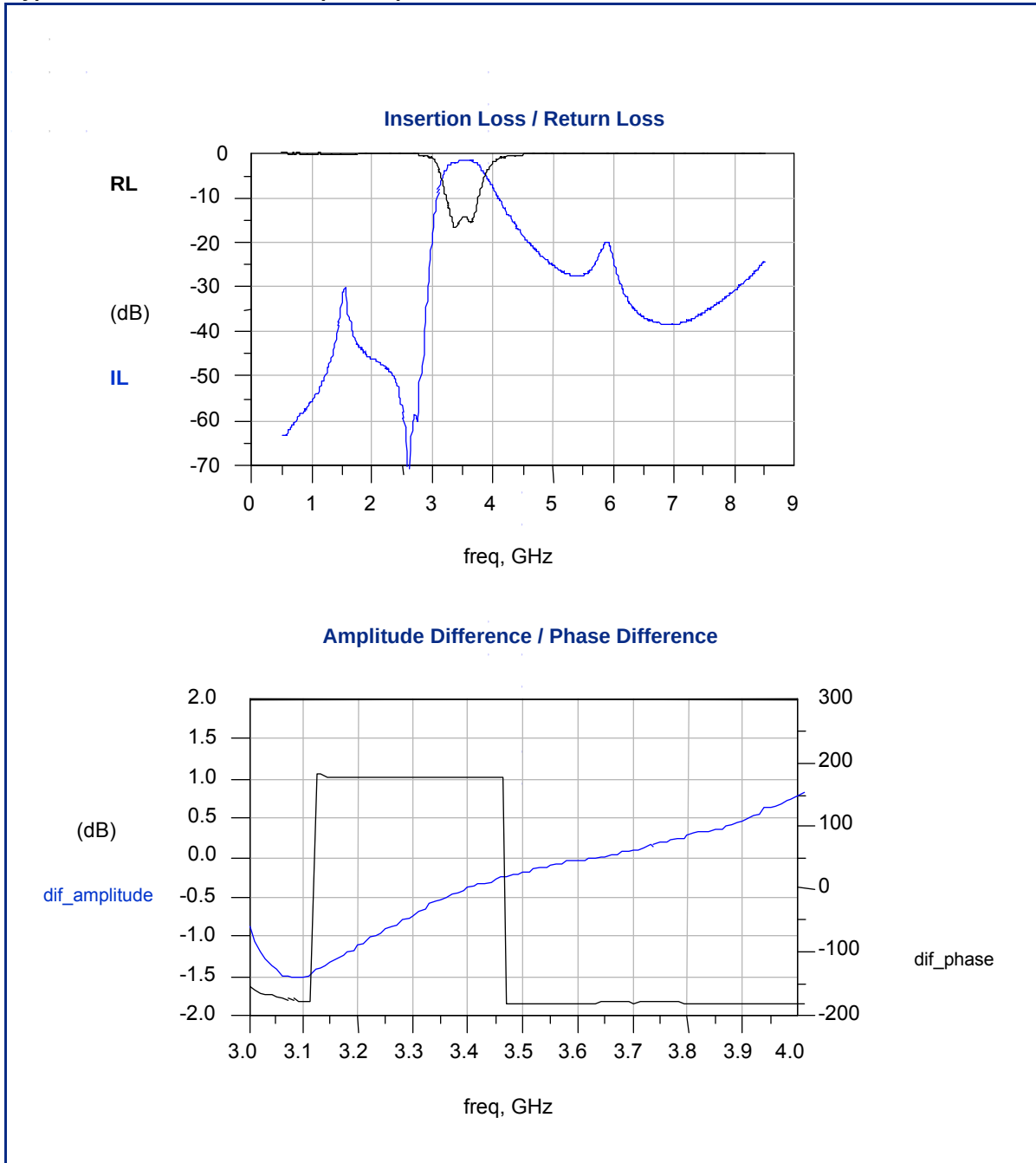
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Typical Electrical Performance (T=25°C)



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