

PRELIMINARY

3500 MHz Balun / Filter Combination

P/N 3500FB16A0100

Detail Specification: 07/10/06

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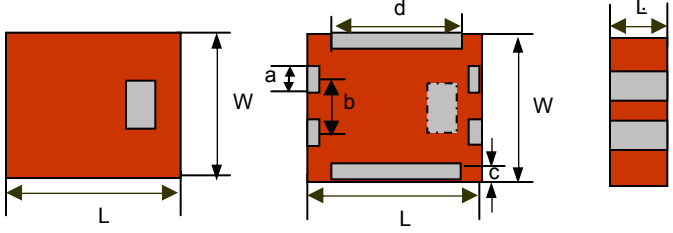
General Specifications

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° ± 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.

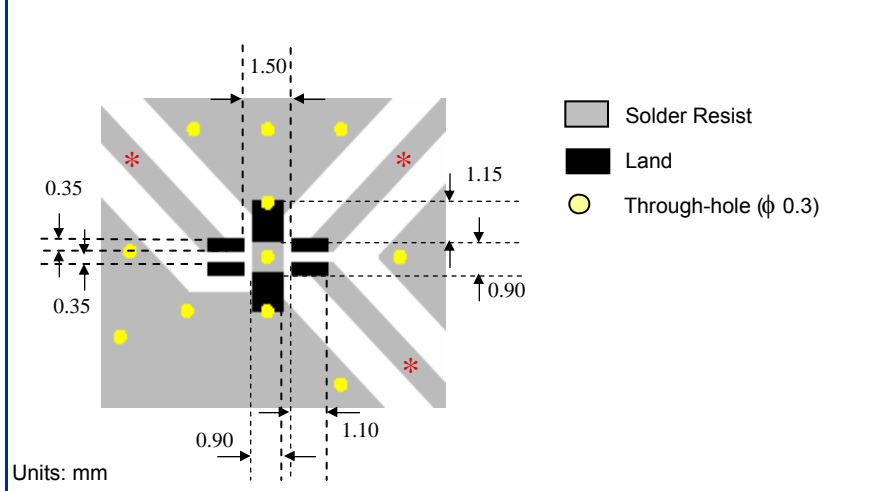
Mechanical Dimensions

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



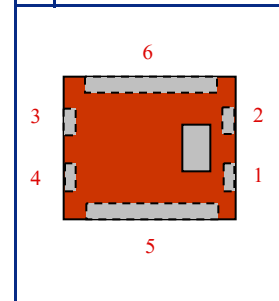
Mounting Considerations

* Line width should be designed to match 50Ω 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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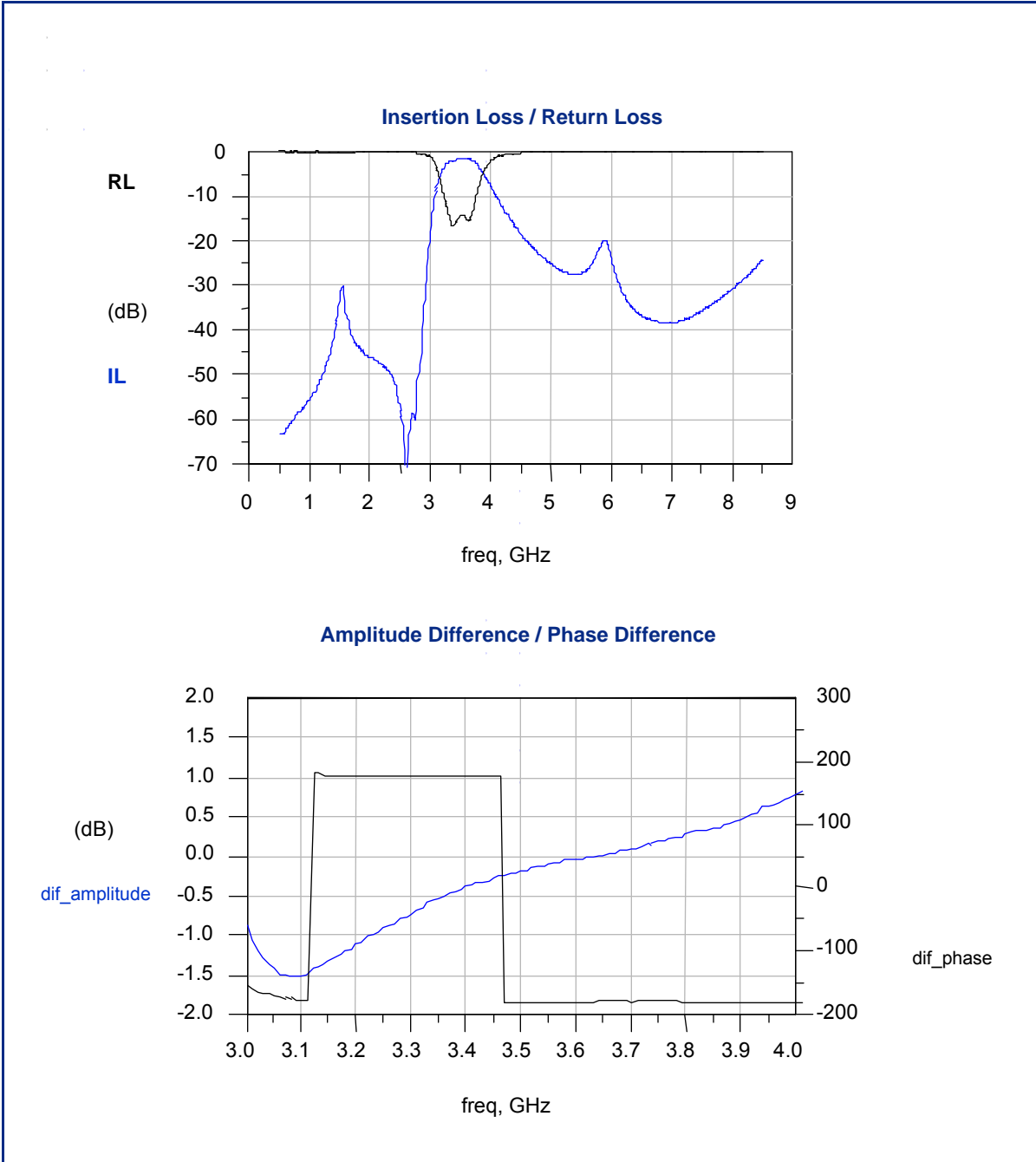
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Typical Electrical Performance (T=25°C)



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