

# "High Frequency Ceramic Solutions"

Preliminary

## 2.5 GHz Balun/Filter Combination

P/N 2500FB16A0400

Detail Specification: 06/04/09

Page 1 of 2

### General Specifications

Part Number	2500FB16A0400
Frequency (MHz)	2300 - 2690
Unbalanced Impedance	50 $\Omega$
Balanced Impedance	50 $\Omega$ + 2.4 nH
Insertion Loss	3.8 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° $\pm$ 10
Amplitude Difference	1.0 dB max.
Power Capacity	0.5 W max.
Reel Quantity	4000

Attenuation (dB)	15 min.@ DC~800MHz
	35 min.@ 800~960MHz
	15 min.@ 960~1700MHz
	30 min.@ 1700~1900MHz
	25 min.@ 1900~1980MHz
	30 min.@ 4900~5900MHz
Operating Temp	-40 to +85°C
Storage Temp	+5 ~ +35°C, Humidity: 45~75%RH, 12 mos. Max

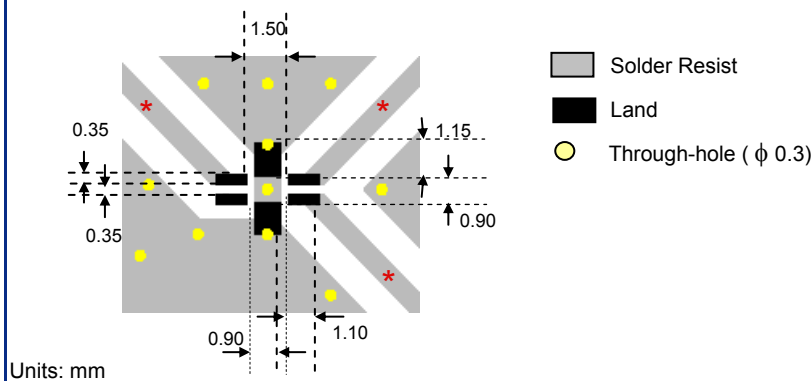
\* - 1 yr shelf life in bag; 1 week shelf life out of bag;  
Vacuum reseal unused reel

### Mechanical Dimensions

	In	mm	Top View		Bottom View	
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 specified 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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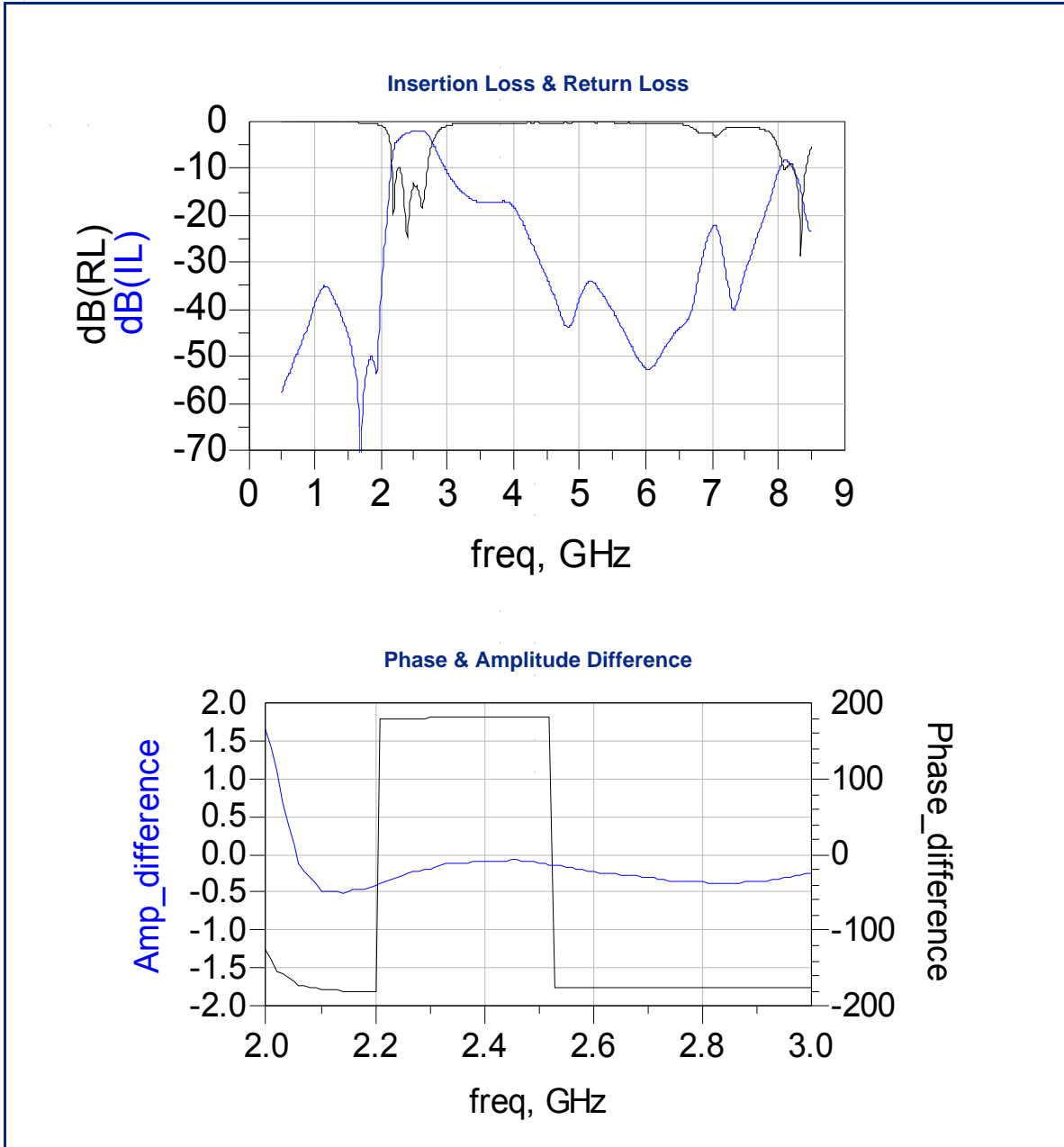
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Page 2 of 2

Typical Electrical Performance (T=25°C)



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