

# "High Frequency Ceramic Solutions"

Preliminary

50:100Ω 783MHz Balun-Filter

P/N 0783FB15A0100

Detail Specification: 09/29/09

Page 1 of 2

## General Specifications

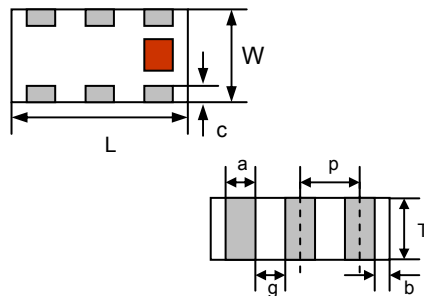
Part Number	0783FB15A0100
Frequency (MHz)	779 - 787
Unbalanced Impedance	50 Ω
Balanced Impedance	100 Ω
Insertion Loss	1.5 dB max.
Return Loss	9.5 dB min.
Phase Difference	180° ± 15
Amplitude Difference	2.0 dB max.

Attenuation	30 dB min.@ 2Fo
	30 dB min.@ 3Fo
	30 dB min.@ 4Fo
Operating Temperature	-40 to +85°C
Storage Temperature	+5 to +35°C, Humidity: 45-75%RH, 12 mos. Max
Input Power	1 Watts max.
Reel Quantity	4,000

\* 12 months in vacuum sealed bag and 1 week after opened.

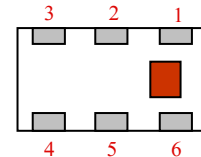
## Mechanical Dimensions

	In	mm
L	0.079 ± 0.004	2.00 ± 0.10
W	0.049 ± 0.004	1.25 ± 0.10
T	0.028 ± 0.004	0.70 ± 0.10
a	0.012 ± 0.004	0.30 ± 0.10
b	0.008 ± 0.004	0.20 ± 0.10
c	0.012 +.004/-0.008	0.30 +0.1/-0.2
g	0.014 ± 0.004	0.35 ± 0.10
p	0.026 ± 0.002	0.65 ± 0.05



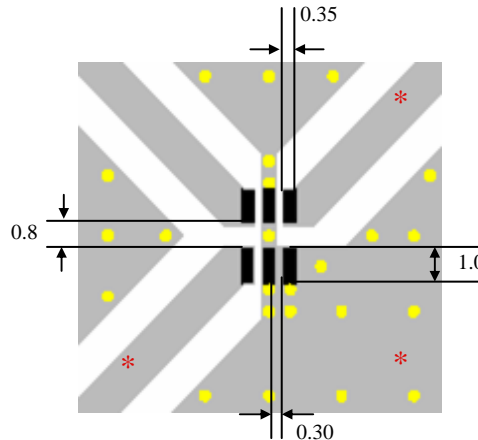
## Terminal Configuration

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



## Mounting Considerations

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



Units: mm

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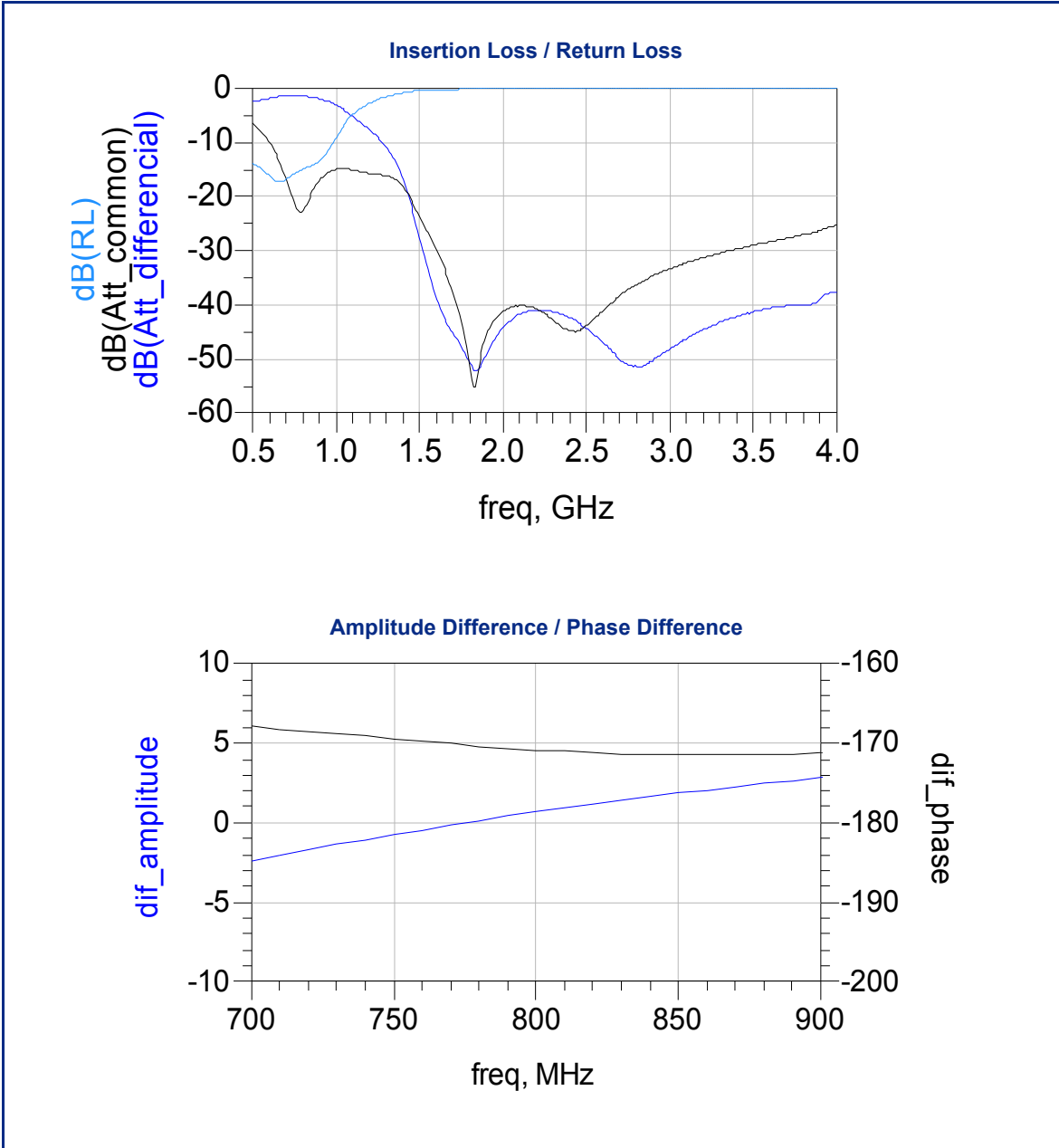
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Page 2 of 2

Typical Electrical Performance (T=25°C)



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