

# "High Frequency Ceramic Solutions"

**2.5 GHz 1:2 RF Balun**

**P/N 2500BL14M100**

Detail Specification: 5/11/2012

Page 1 of 2

## General Specifications

Part Number	2500BL14M100
Frequency (MHz)	2300~2700
Unbalanced Impedance	50 Ω
Differential Balanced Impedance	100 Ω
Insertion Loss	1.2 dB max.
Return Loss	9.5 dB min.

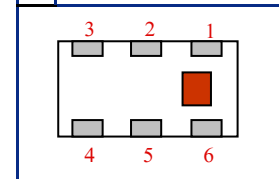
Phase Difference	180° ± 15
Amplitude Difference	1.5 dB max.
Operating Temperature	-40 to +85°C
Reel Quantity	4,000
Power Capacity	0.5 Watts max.

## Part Number Explanation

P/N	Packaging Style	Bulk	Suffix = S	Eg. 2500BL14M100S
		T & R (4000pcs)	Suffix = T	Eg. 2500BL14M100T
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 2500BL14M100(T or S)
		Tin / Lead	Suffix = /Pb	Eg. 2500BL14M100(T or S)/Pb

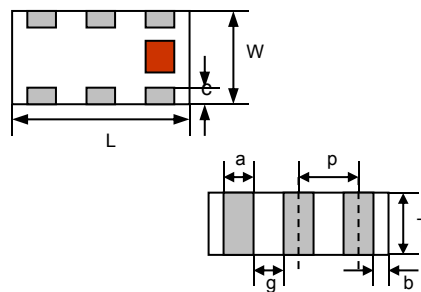
## Terminal Configuration

No.	Function
1	Unbalanced Port (IN)
2	GND, or DC feed + RF GND
3	Balanced Port (OUT1)
4	Balanced Port (OUT2)
5	GND
6	NC



## Mechanical Dimensions

	In	mm
L	0.063 ± 0.004	1.60 ± 0.10
W	0.031 ± 0.004	0.80 ± 0.10
T	0.024 ± 0.004	0.60 ± 0.10
a	0.008 ± 0.004	0.20 ± 0.10
b	0.008 +.004/-.006	0.20 +0.1/-0.15
c	0.006 ± 0.004	0.15 ± 0.10
g	0.012 ± 0.004	0.30 ± 0.10
p	0.020 ± 0.002	0.50 ± 0.05

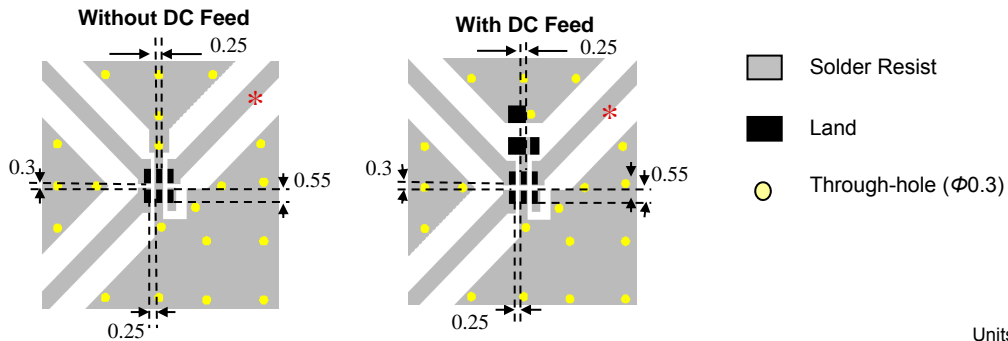


## Mounting Considerations

Mount these devices with brown mark facing up.

Line width should be designed to provide proper impedance matching characteristics.

Bypass components should be inserted when the DC feed option is utilized.



Units: mm

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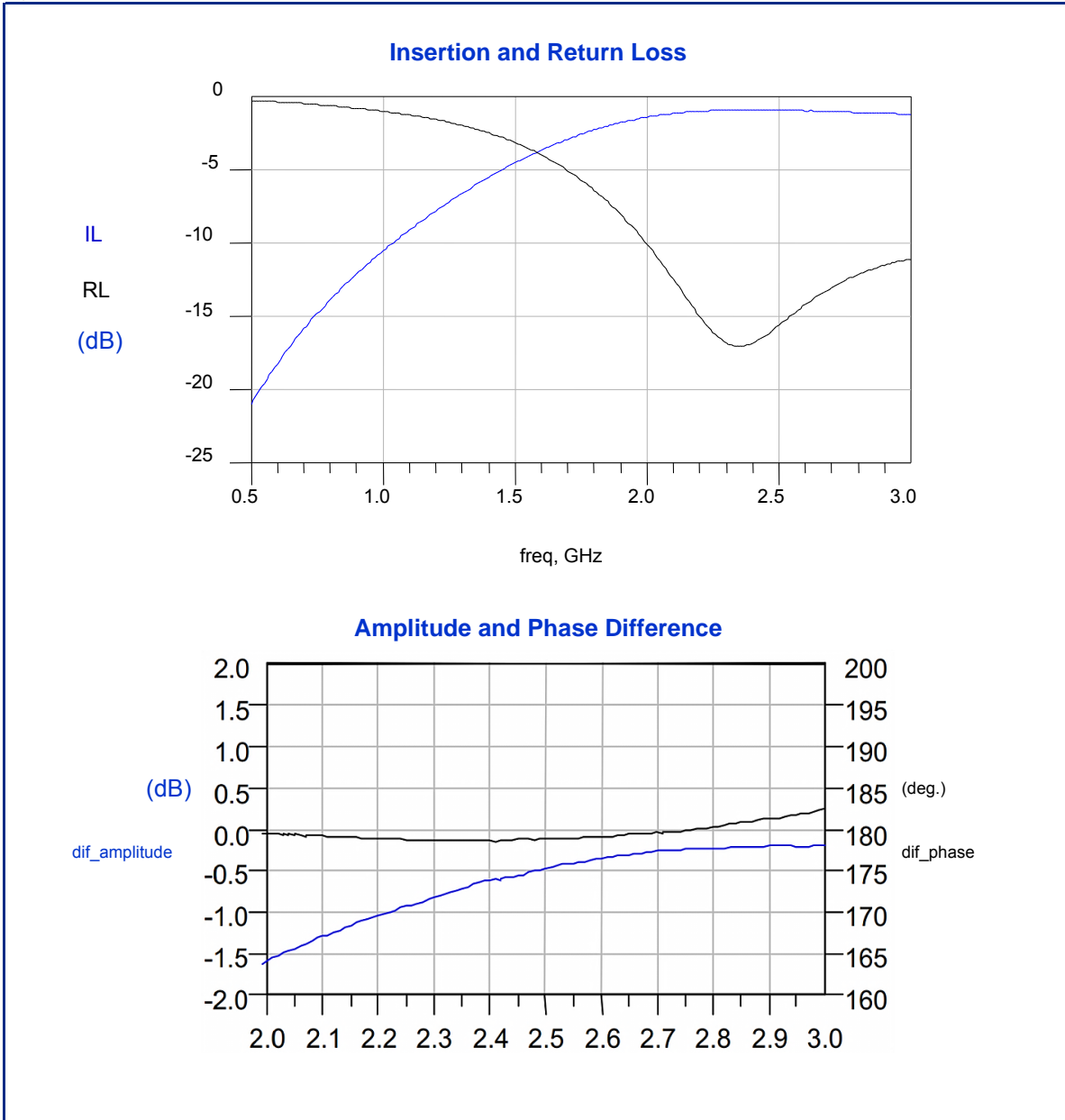
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Page 2 of 2

## Typical Electrical Performance (T=25°C)



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