

# High Frequency Ceramic Solutions

## Balun, Ultra-WideBand, 4 GHz

P/N 4000BL14U100

Detail Specification: 09/20/05

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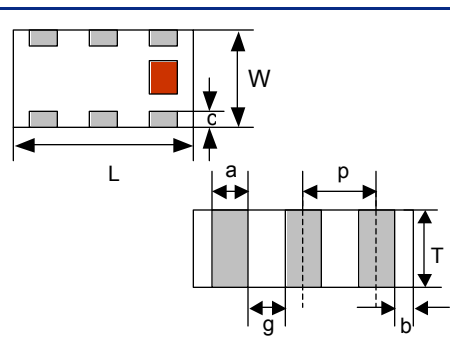
### General Specifications

Part Number	4000BL14U100
Frequency (MHz)	3100 - 4800
Unbalanced Impedance	50 $\Omega$
Differential Balanced Imp.	100 $\Omega$
Insertion Loss	1.2 dB max.
Return Loss	9.5 dB min.
Phase Difference (degree)	180 $\pm$ 20
Amplitude Difference	1.5 dB max.

Operating Temperature	-40 to +85°C
Reel Quantity	4,000
Power Capacity	3 W max.

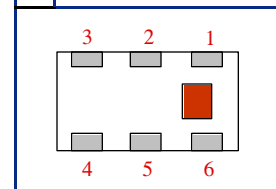
### Mechanical Dimensions

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



### 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

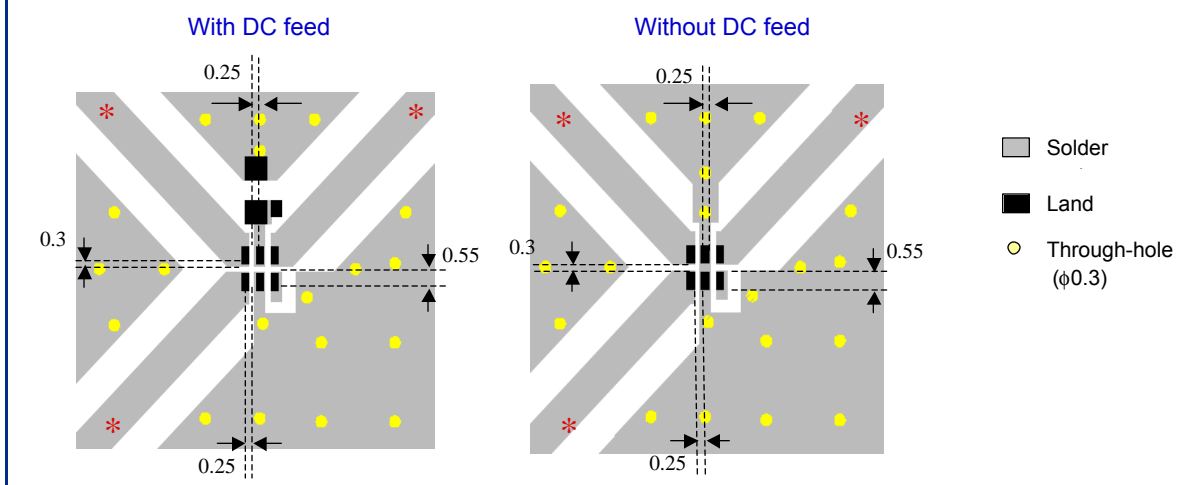


### Mounting Considerations

Mount these devices with brown mark facing up.

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

Units: mm



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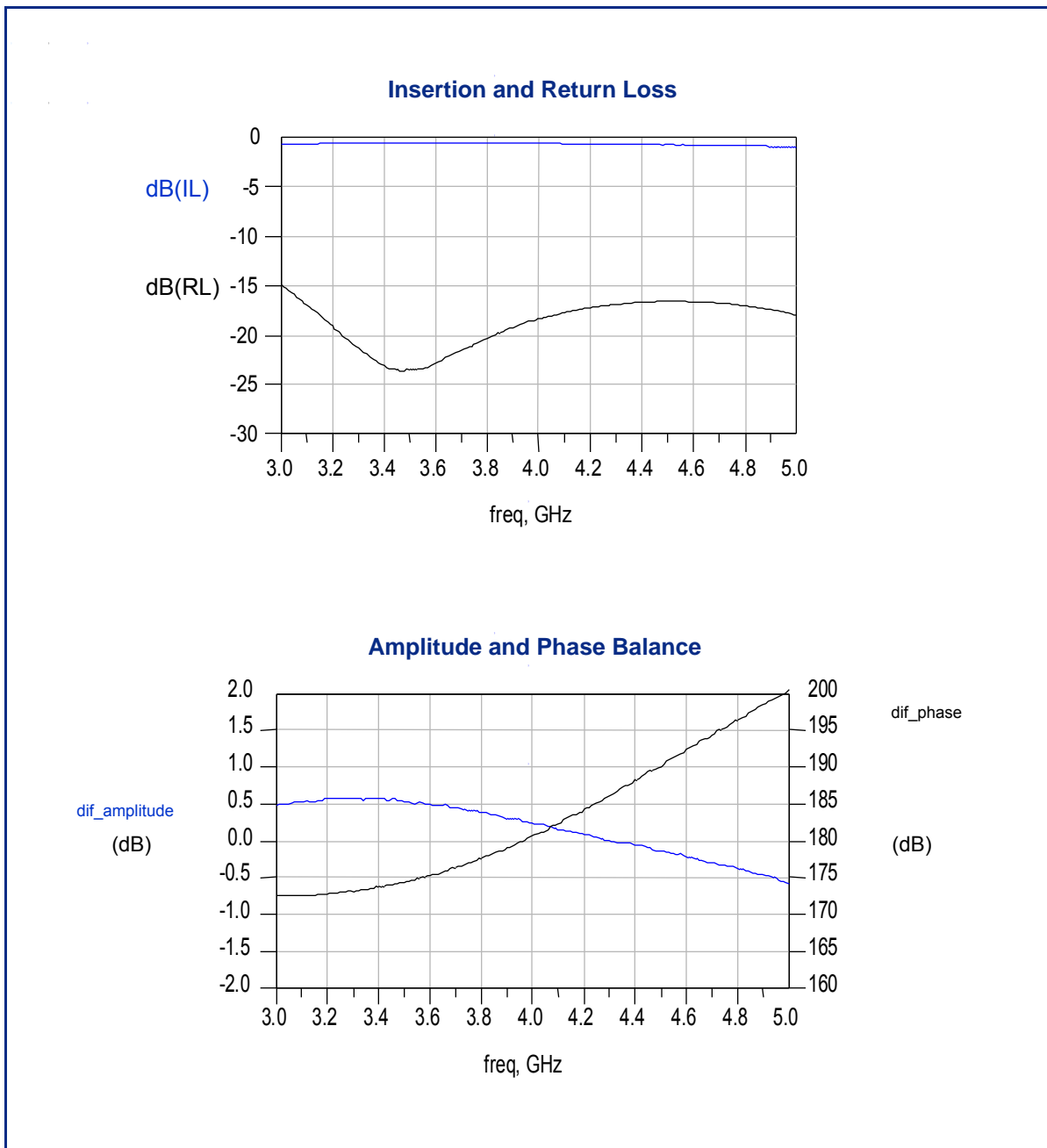
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## Typical Electrical Performance (T=25°C)



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