

## Excellent Integrated System Limited

Stocking Distributor

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[Johanson Technology Inc.](#)  
[4000BL14U100T](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# High Frequency Ceramic Solutions

**Balun, Ultra-WideBand, 4 GHz** **P/N 4000BL14U100**  
 Detail Specification: 09/20/05 Page 1 of 2

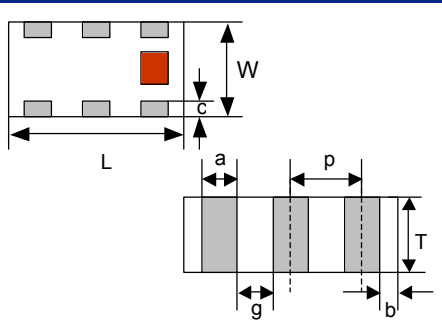
### General Specifications

Part Number	4000BL14U100
Frequency (MHz)	3100 - 4800
Unbalanced Impedence	50 Ω
Differential Balanced Imp.	100 Ω
Insertion Loss	1.2 dB max.
Return Loss	9.5 dB min.
Phase Difference (degree)	180 ± 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 ± 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



### 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

With DC feed

Without DC feed

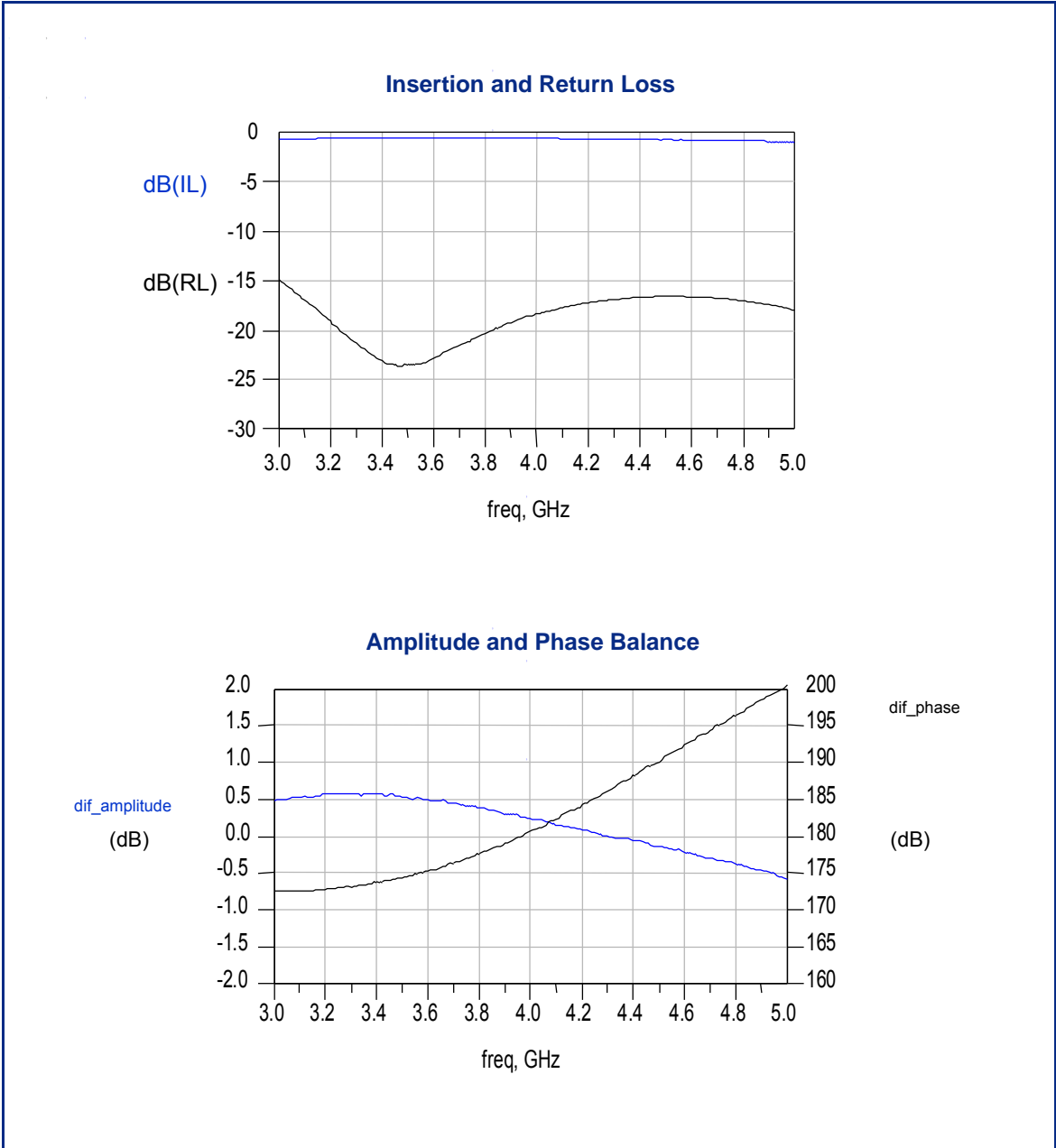
- Solder
- Land
- Through-hole (φ0.3)

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



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