

# "High Frequency Ceramic Solutions"

## 5.4 GHz Balun

P/N 5400BL14B100

Detail Specification: 07/21/06

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### General Specifications

Part Number	5400BL14B100
Frequency (MHz)	4900 - 5875
Balanced Impedance	100 $\Omega$
Insertion Loss	1.0 dB max.
Return Loss	9.5 dB min.

Phase Difference	180° $\pm$ 10
Amplitude Difference	1.5 dB max.
Operating Temperature	-40 to +85°C
Reel Quantity	4,000
Power Capacity	0.5 watts max.

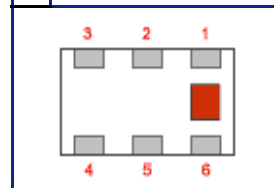
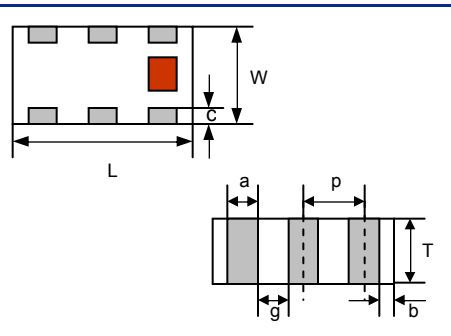
P/N	Packaging Style	Bulk	Suffix = S	Eg. 5400BL14B100S
		T & R	Suffix = E	Eg. 5400BL14B100E
Suffix	Termination Style	100% Tin	Suffix = None	Eg. 5400BL14B100(E or S)
		Tin / Lead	Please consult Factory	

### Terminal Configuration

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

### 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/-.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



### Mounting Considerations

Mount these devices with brown mark facing up.

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

\*\* By-pass capacitor should be connected when feeding DC power

**Without DC Feed**

**With DC Feed**

Solder Resist  
 Land  
 Through-hole ( $\Phi$ 0.3)

Units: mm

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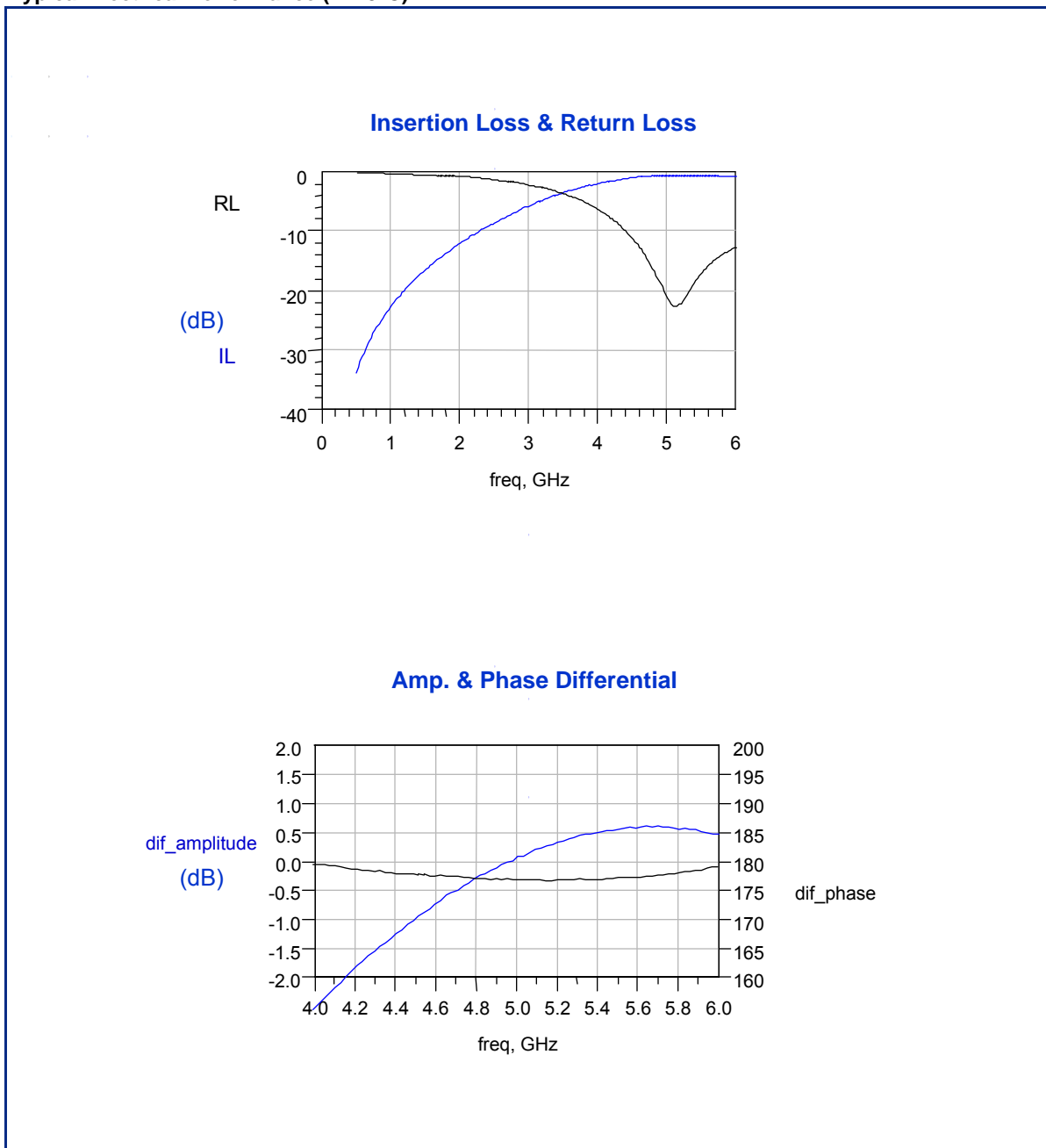
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Typical Electrical Performance (T=25°C)



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