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# "High Frequency Ceramic Solutions"

## 5.25 GHz Balun

P/N 5250BL14B100

Detail Specification: 04/19/05

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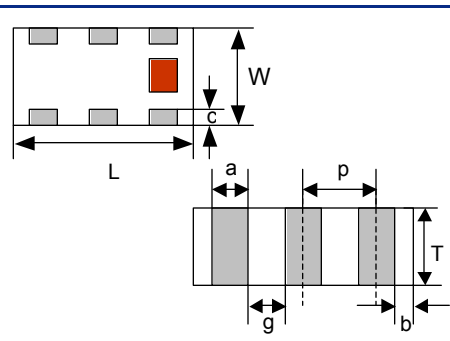
### General Specifications

Part Number	5250BL14B100
Frequency (MHz)	5150 - 5350
Unbalanced Impedance	50 $\Omega$
Differential Balanced Imp.	100 $\Omega$
Insertion Loss	1.0 dB max.
Return Loss	9.5 dB min.
Phase Difference (degree)	180 $\pm$ 15
Amplitude Difference	1.5 dB max.

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

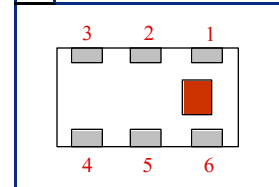
### Mechanical Dimensions

	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

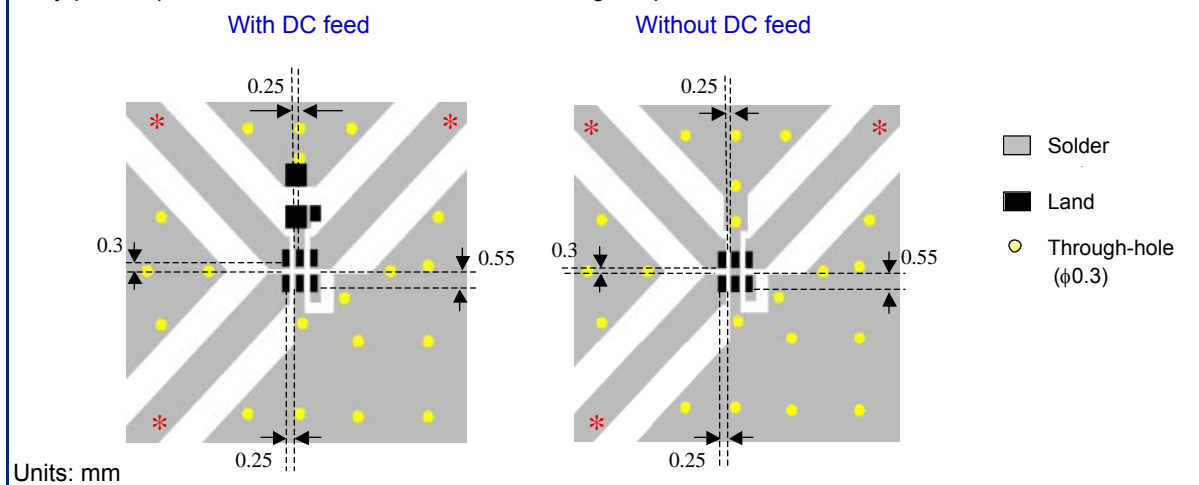


### Mounting Considerations

Mount these devices with brown mark facing up.

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

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



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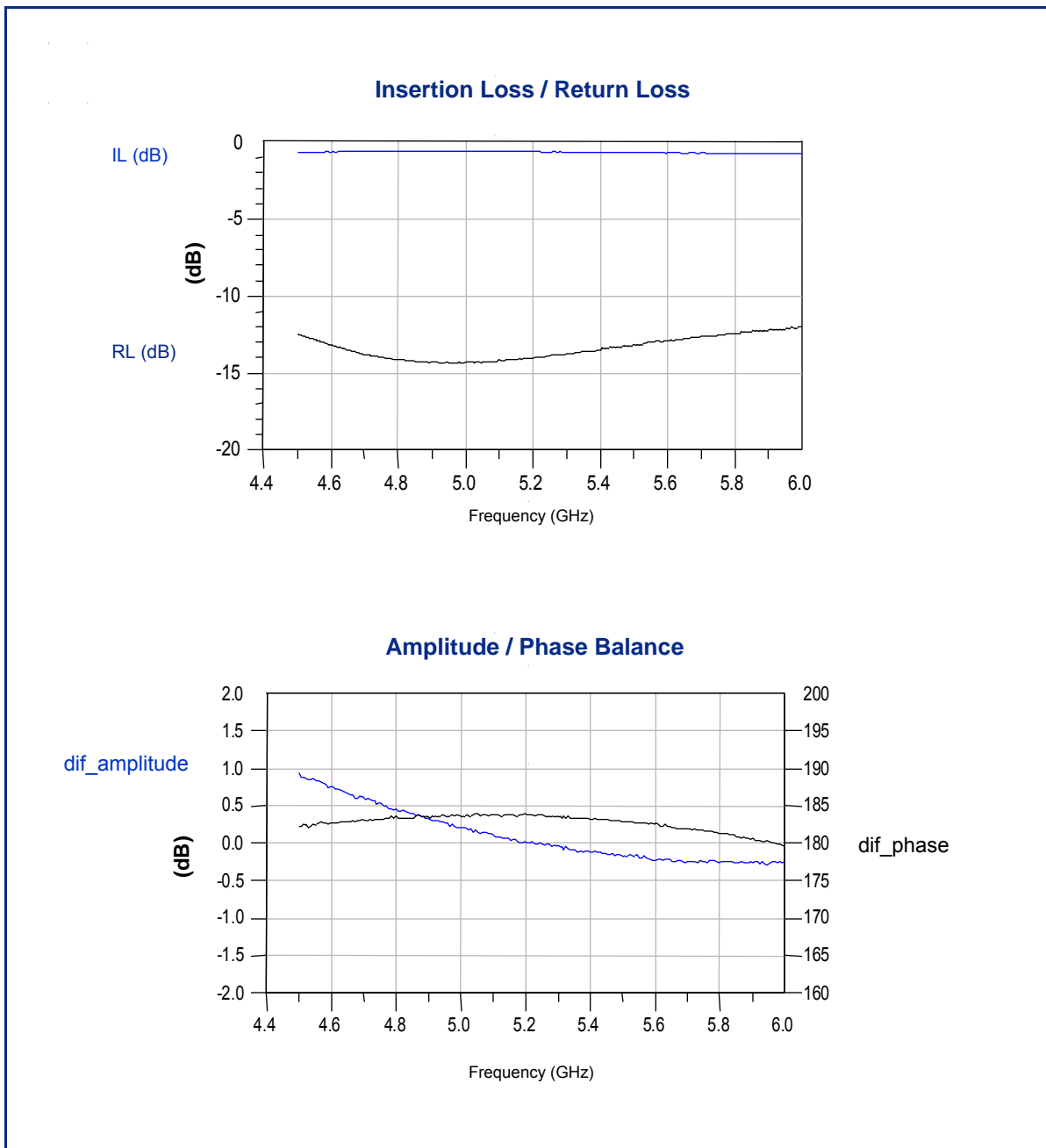
5.25 GHz Balun

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



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