

# PRELIMINARY

## 900 MHz Balun

**P/N 0896BL14B050**

Detail Specification: 06/04/07

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### General Specifications

<b>Part Number</b>	0896BL14B050
<b>Frequency (MHz)</b>	851 - 941
<b>Unbalanced Impedance</b>	50 $\Omega$
<b>Balanced Impedance</b>	50 $\Omega$
<b>Insertion Loss</b>	1.5 dB max.
<b>Return Loss</b>	9.5 dB min.

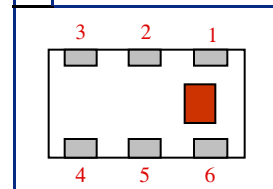
<b>Phase Difference</b>	180° $\pm$ 10
<b>Amplitude Difference</b>	0.7 dB max.
<b>Operating Temperature</b>	-40 to +85°C
<b>Reel Quantity</b>	4,000
<b>Power Capacity</b>	3 watts max.
<b>MSL</b>	2 *

<b>P/N Suffix</b>	<b>Packaging Style</b>	Bulk	Suffix = S	Eg. 0896BL14B050S
		T & R	Suffix = E	Eg. 0896BL14B050E
	<b>Termination Style</b>	100% Tin	Suffix = None	Eg. 0896BL14B050(E or S)
		Tin / Lead	Please consult Factory	

\* - 1 yr shelf life in bag; 1 week shelf life out of bag; Vacuum reseal unused reel

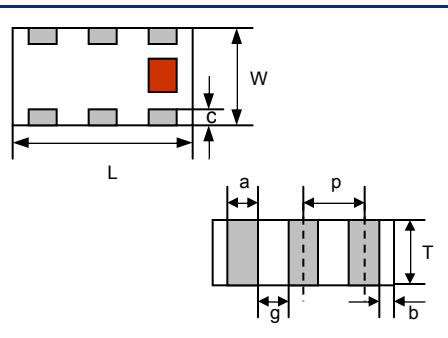
### Terminal Configuration

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

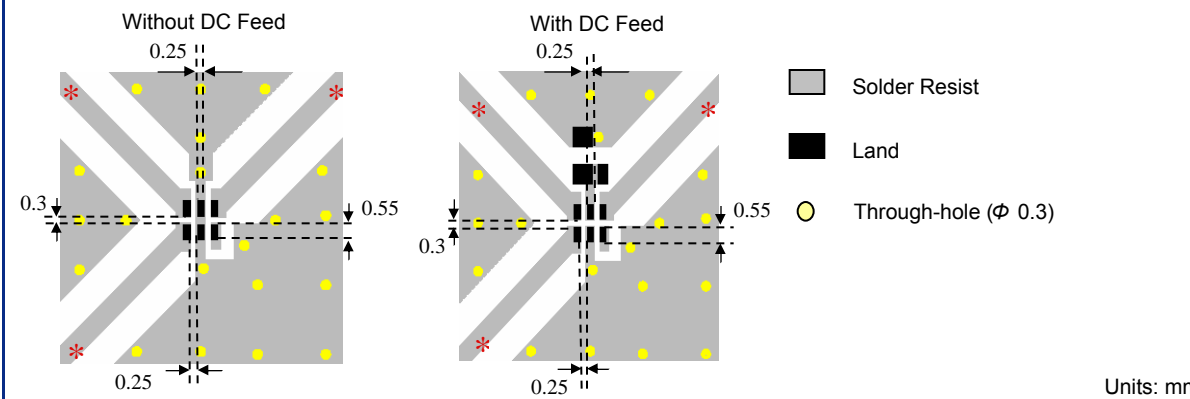
	In	mm
<b>L</b>	0.063 $\pm$ 0.004	1.60 $\pm$ 0.10
<b>W</b>	0.031 $\pm$ 0.004	0.80 $\pm$ 0.10
<b>T</b>	0.024 $\pm$ 0.004	0.60 $\pm$ 0.10
<b>a</b>	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
<b>b</b>	0.008 +.004/-0.006	0.20 +0.1/-0.15
<b>c</b>	0.006 $\pm$ 0.004	0.15 $\pm$ 0.10
<b>g</b>	0.012 $\pm$ 0.004	0.30 $\pm$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



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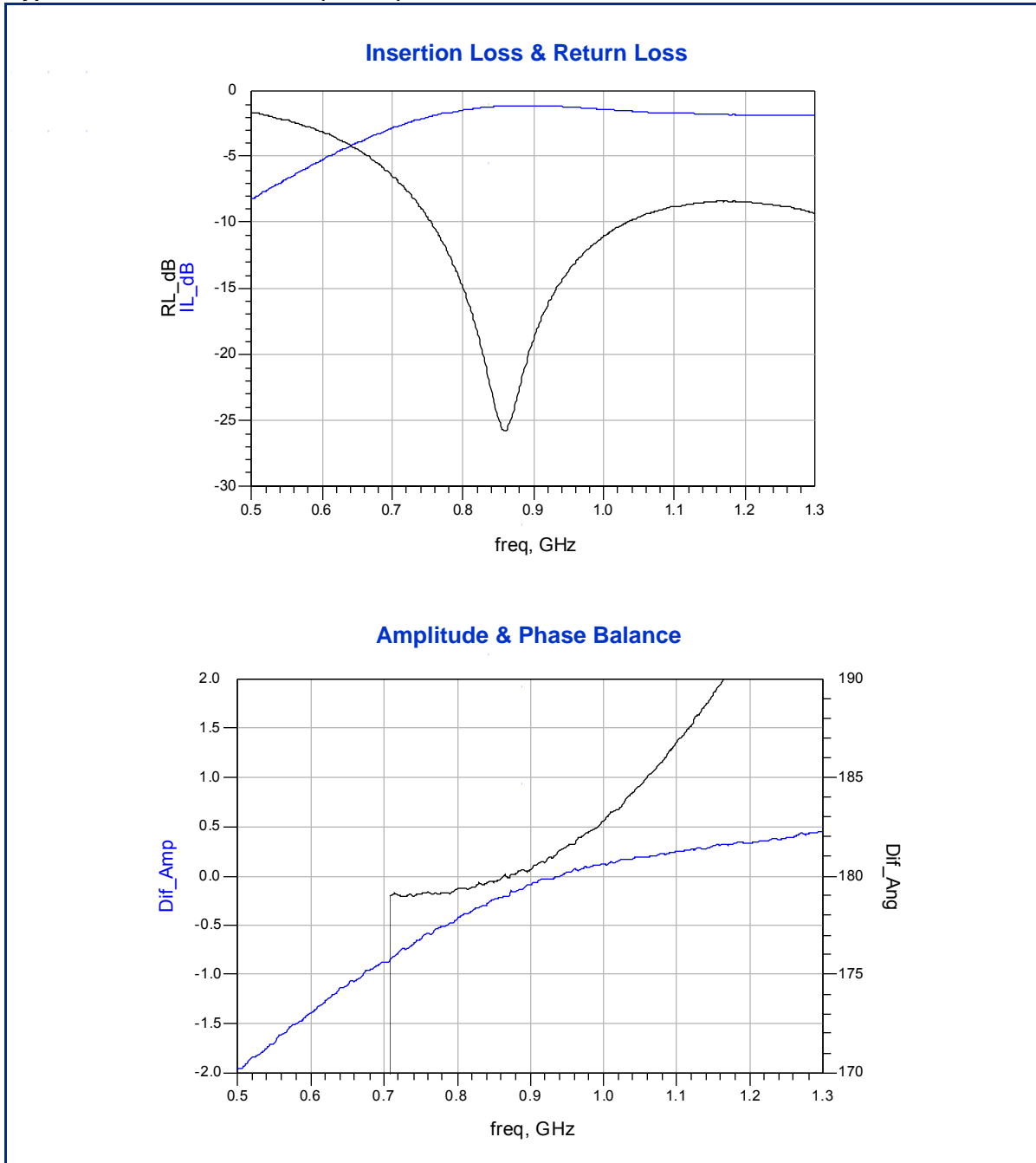
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## Typical Electrical Performance (T=25°C)



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