

# "High Frequency Ceramic Solutions"

**UWB Balun (3 - 8 GHz)**

**P/N 5500BL15U0100**

Detail Specification: 07/21/09

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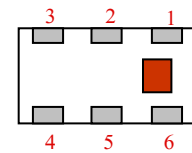
## General Specifications

<b>Part Number</b>	5500BL15U0100
<b>Frequency (MHz)</b>	3000 - 8000
<b>Unbalanced Impedance</b>	50 $\Omega$
<b>Differential Balanced Imp.</b>	100 $\Omega$
<b>Insertion Loss</b>	1.8 dB max.
<b>Return Loss</b>	9.5 dB min.
<b>Phase Difference (degree)</b>	180 $\pm$ 15
<b>Amplitude Difference</b>	2.0 dB max.

<b>Operating Temperature</b>	-40 to +85°C
<b>Storage Temperature Range</b>	+5~+35°C, 12 mos. max. Humidity 45~75%RH
<b>Reel Quantity</b>	4,000
<b>Power Capacity</b>	0.5W max.

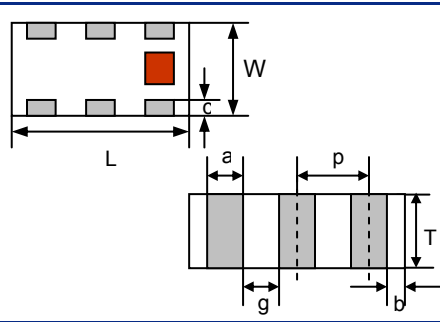
## Terminal Configuration

No.	Function
1	Unbalanced Port (IN)
2	GND
3	GND
4	Balanced Port (OUT1)
5	GND
6	Balanced Port (OUT2)



## Mechanical Dimensions

	In	mm
<b>L</b>	0.079 $\pm$ 0.004	2.00 $\pm$ 0.10
<b>W</b>	0.049 $\pm$ 0.004	1.25 $\pm$ 0.10
<b>T</b>	0.037 $\pm$ 0.004	0.95 $\pm$ 0.10
<b>a</b>	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
<b>b</b>	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
<b>c</b>	0.012 +.004/- .006	0.30 +0.1/-0.15
<b>g</b>	0.014 $\pm$ 0.004	0.35 $\pm$ 0.10
<b>p</b>	0.026 $\pm$ 0.002	0.65 $\pm$ 0.05

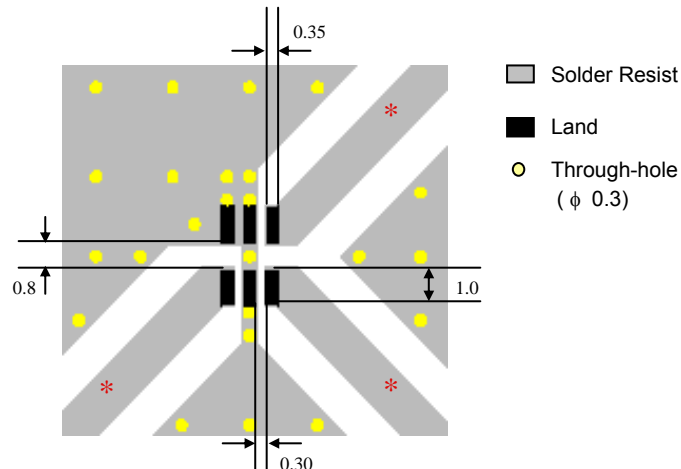


## Mounting Considerations

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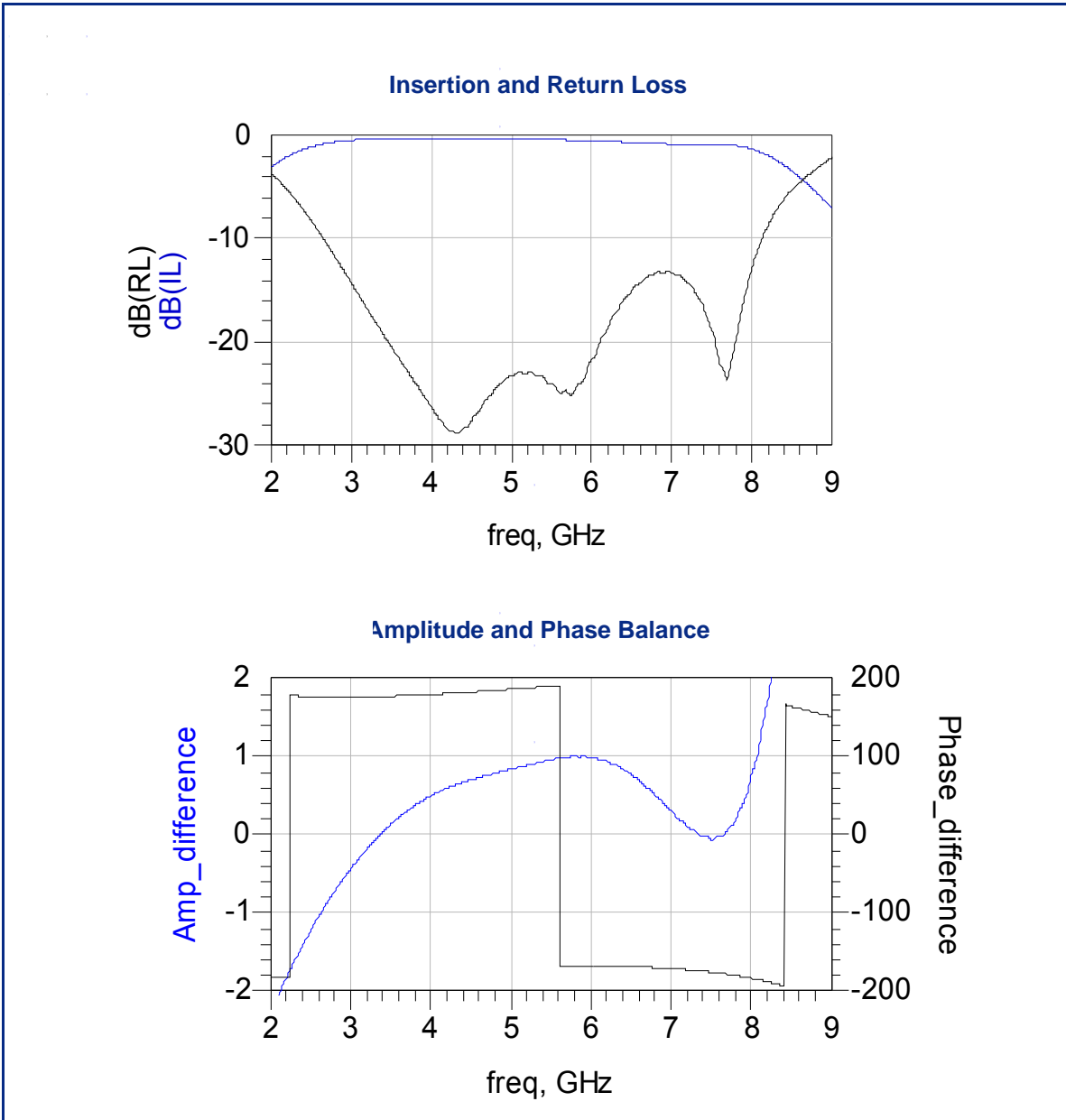
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## Typical Electrical Performance (T=25°C)



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