



**THE DATASHEET OF  
3600BL14M050T**



# High Frequency Ceramic Solutions

**3.6 GHz RF Balun 1:1 Impedance ratio. EIA 0603.**

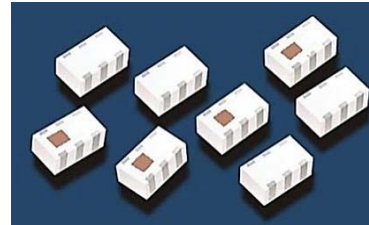
**P/N 3600BL14M050**

Detail Specification: 1/20/2015

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## General Specifications

<b>Part Number</b>	3600BL14M050		
<b>Frequency (MHz)</b>	3300 ~ 3900		
<b>Unbalanced Impedance</b>	50 $\Omega$		
<b>Differential Balanced Imp.</b>	50 $\Omega$		
<b>Insertion Loss</b>	1.2 dB max.		
<b>Return Loss</b>	9.5 dB min.		
<b>Phase Difference (degree)</b>	180° $\pm$ 25		
<b>Out of Band Rejection (dB)</b>	9 min. @ 800 - 960 MHz	<b>Operating Temperature</b>	-40 to +85°C
	3 min. @ 1700 - 1900 MHz	<b>Storage Temperature</b>	-40 to +85°C
<b>Amplitude Difference</b>	1.5 dB max.	<b>Recommended Storage Conditions of unused product on T&amp;R</b>	+5 to +35°C, 18 mos. max. Humidity 45~75% RH
<b>Reel Quantity</b>	4,000 pcs		
<b>Power Capacity</b>	1 Watt max. CW		



You can download measured s-parameters of this component at: <http://www.johansontechnology.com/rfbaluns>

## Part Number Explanation

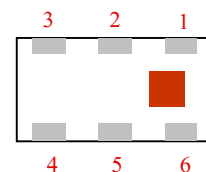
P/N Suffix	Packing Style	Bulk	Suffix = S	Eg. 3600BL14M050S
		T & R	Suffix = T	Eg. 3600BL14M050T
	Termination style	100% Tin	Suffix = None	Eg. 3600BL14M050 (T or S)
		Tin / Lead	Suffix = /Pb	Eg. 3600BL14M050S/Pb (Bulk only available)

## 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 +0.004/0.006	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

## Terminal Configuration

<b>1</b>	Unbalanced Port
<b>2</b>	GND or DC Feed + RF GND
<b>3</b>	Balanced Port
<b>4</b>	Balanced Port
<b>5</b>	GND
<b>6</b>	NC



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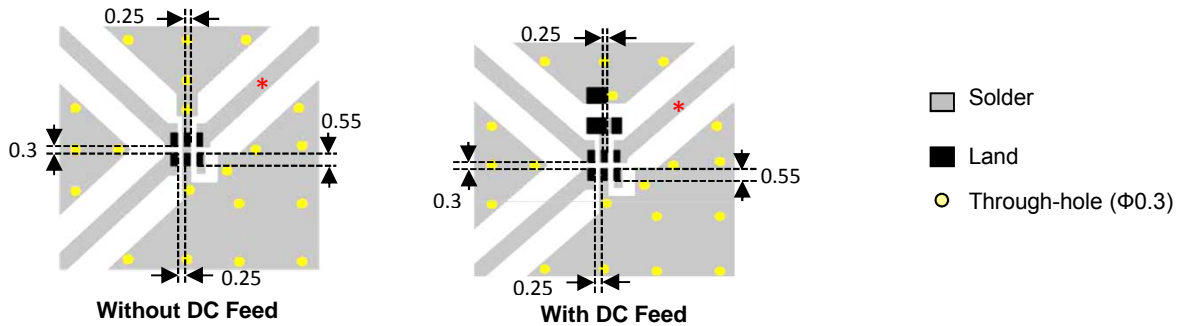
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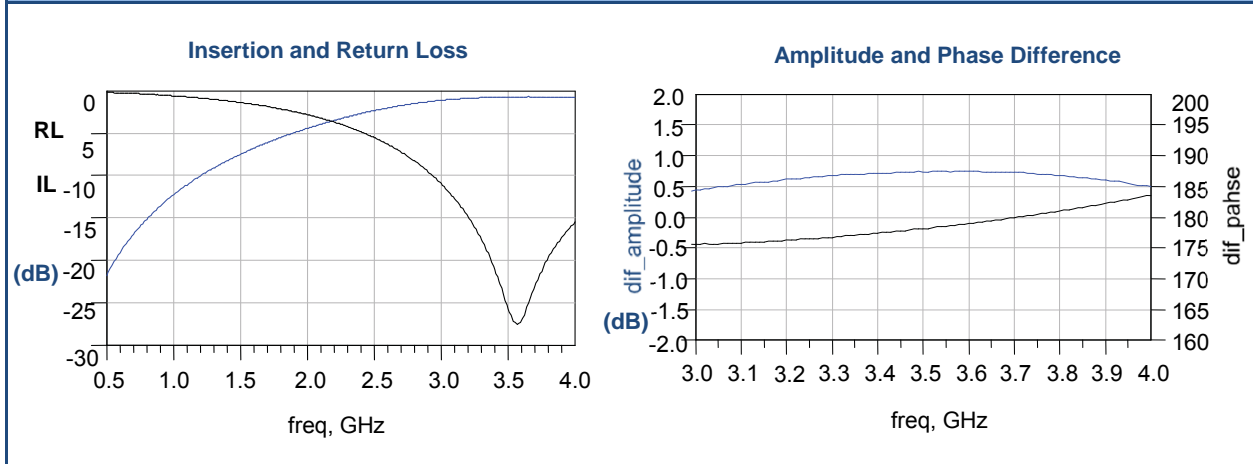
## Mounting Considerations

Mount these devices with brown mark facing up.

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



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



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## More Filter-Balun info at:

<http://www.johansontechnology.com/rfbaluns>

## Packaging information

[www.johansontechnology.com/ipcpackaging.html](http://www.johansontechnology.com/ipcpackaging.html)

## Soldering Information

[www.johansontechnology.com/ipcsoldering-profile](http://www.johansontechnology.com/ipcsoldering-profile)

## MSL Info

[www.johansontechnology.com/technical-notes/msl-rating.html](http://www.johansontechnology.com/technical-notes/msl-rating.html)

## Recommended Storage Condition and Max Shelf Life

[www.johansontechnology.com/ipcstorage-shelflife](http://www.johansontechnology.com/ipcstorage-shelflife)

## RoHS Compliance

[www.johansontechnology.com/technical-notes/rohs-compliance.html](http://www.johansontechnology.com/technical-notes/rohs-compliance.html)

## Layout review services

<http://www.johansontechnology.com/component/techquestion>

## Antenna layout review, tuning, and characterization services

[www.johansontechnology.com/ipcantennaservices](http://www.johansontechnology.com/ipcantennaservices)

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