

# High Frequency Ceramic Solutions

Wideband RF Balun, 75Ω Balanced (differential) to 50Ω Unbalanced (single-ended), EIA 0805. Works with LNB, CATV, Sat, and other Set Top Box applications.

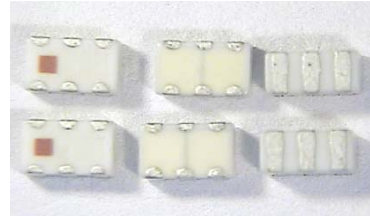
P/N 1350BL15B0075

Detail Specification: 7/31/2014

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## General Specifications

<b>Part Number</b>	1350BL15B0075	
<b>Frequency (MHz)</b>	400 ~ 2300	
<b>Unbalanced Impedance</b>	50 Ω	
<b>Balanced Diff. Impedance</b>	75 Ω	
<b>Insertion Loss @ BW</b>	1.4 max.	
<b>Return Loss</b>	12 typical 10 min.	
<b>Phase Difference</b>	180±10	
<b>Amplitude Difference</b>	1.5 max.	
<b>CMRR (dB)</b>	20 min.	
<b>Reel Quantity</b>	4,000 pcs	
<b>Recommended Storage Conditions for unused T&amp;R product</b>	+5 to +35°C, Humidity: 45-75%RH	
	<b>Operating Temperature</b>	-40 to +85°C
	<b>Storage Temperature Range</b>	-40 to +85°C
	<b>Storage Period</b>	18 months max.
	<b>Power Capacity</b>	0.5W max.(CW)



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

## Part Number Explanation

<b>P/N Suffix</b>	<b>Packaging Style</b>	Bulk	Suffix = S	Eg. 1350BL15B0075S
	<b>Termination Style</b>	T & R	Suffix = E	Eg. 1350BL15B0075E
		100% Tin	Suffix = None	Eg. 1350BL15B0075(E or S)

## Mechanical Dimensions

	In	mm
<b>L</b>	0.079 ± 0.004	2.00 ± 0.10
<b>W</b>	0.049 ± 0.004	1.25 ± 0.10
<b>T</b>	0.037 ± 0.004	0.95 ± 0.10
<b>a</b>	0.012 ± 0.004	0.30 ± 0.10
<b>b</b>	0.008 ± 0.004	0.20 ± 0.10
<b>c</b>	0.012 +0.004/0.008	0.30 +0.1/-0.2
<b>g</b>	0.014 ± 0.004	0.35 ± 0.10
<b>p</b>	0.026 ± 0.002	0.65 ± 0.05

## Terminal Configuration

<b>1</b>	GND
<b>2</b>	Unbalanced Port
<b>3</b>	GND
<b>4</b>	Balanced Port
<b>5</b>	NC
<b>6</b>	Balanced Port

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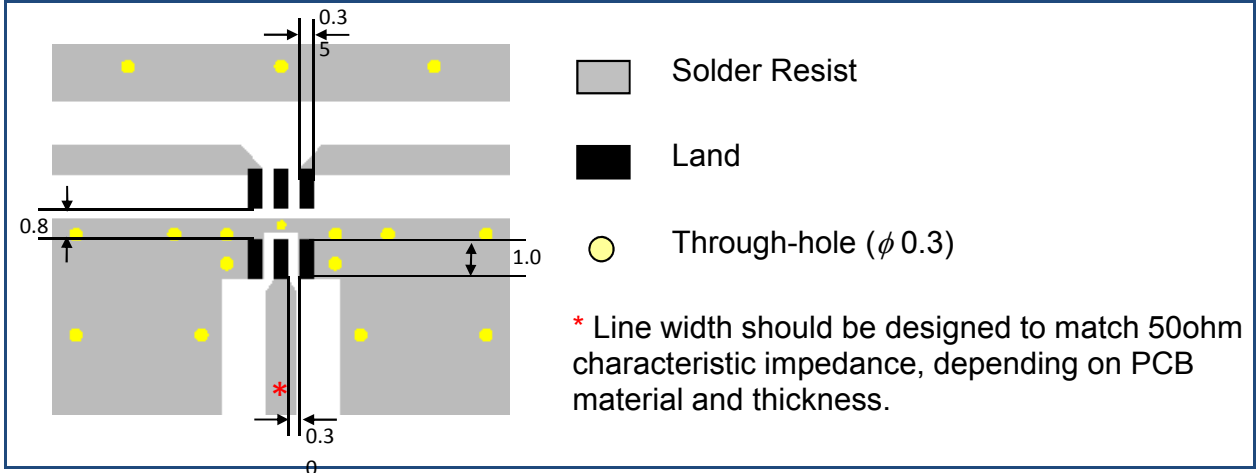
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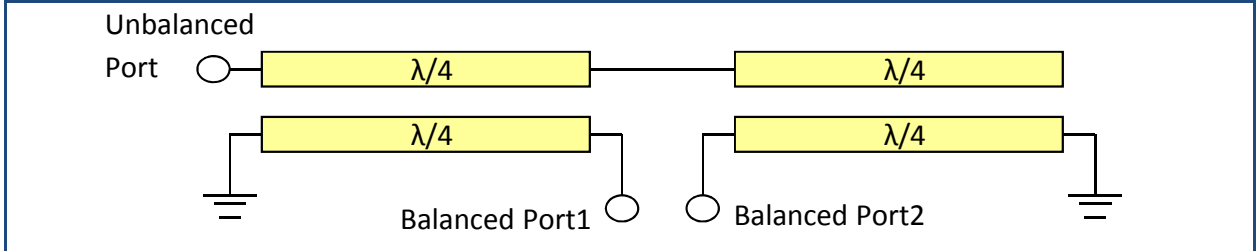
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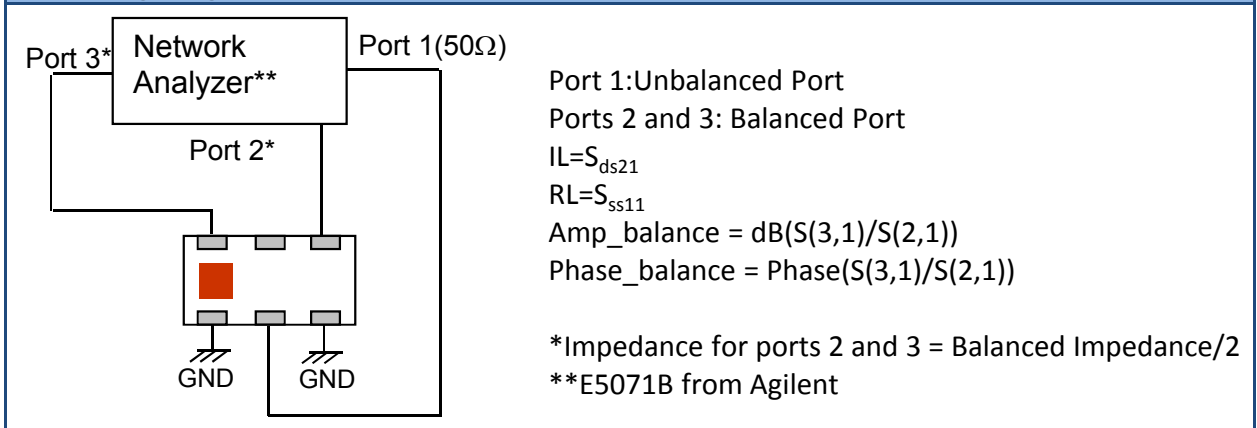
## Mounting Considerations



## Equivalent Circuit



## Measuring Diagram



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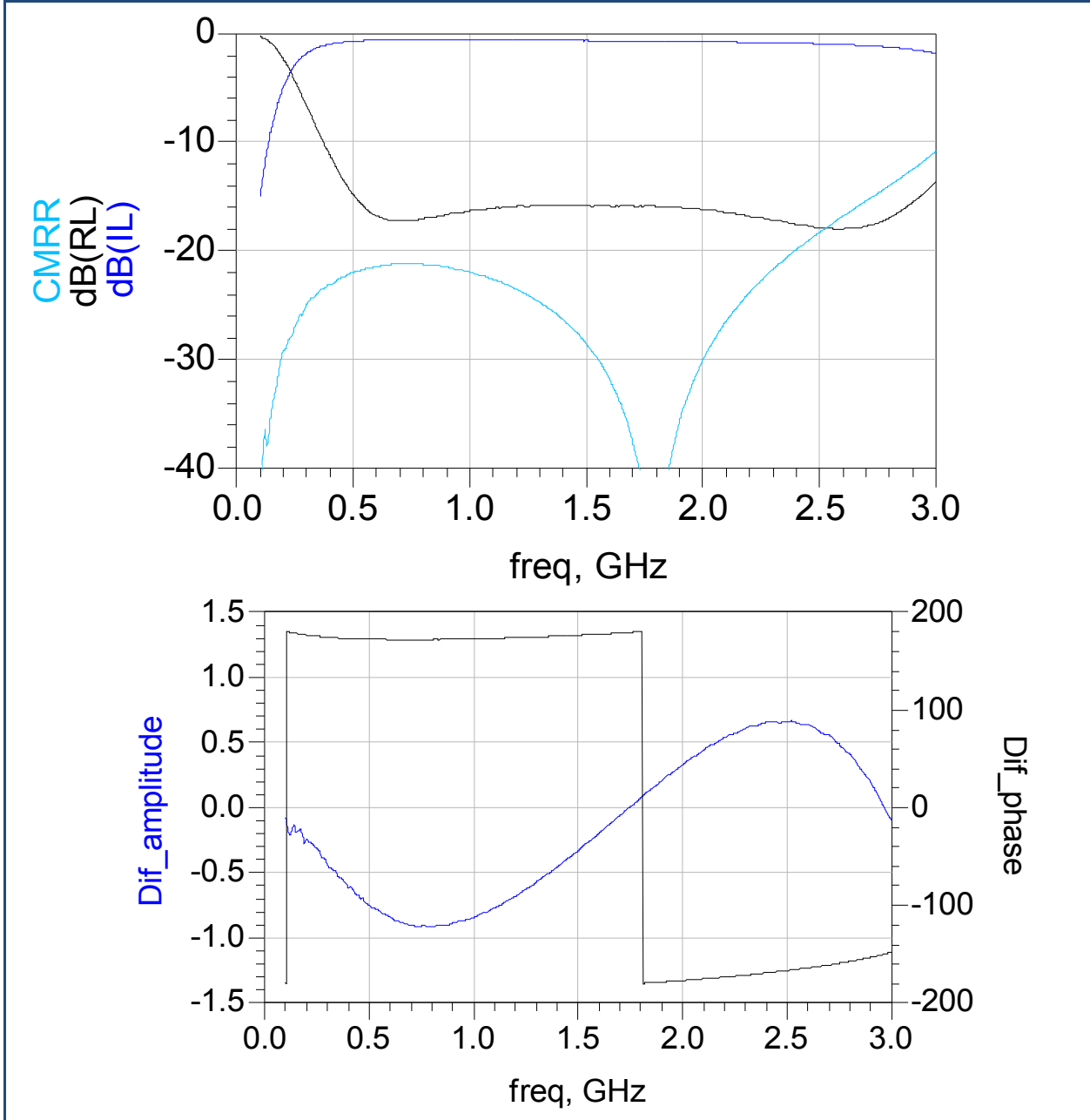
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## Typical Electrical Characteristics (T=25°C)



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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)

## Antenna layout and tuning techniques

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

## Antenna layout review, tuning, and characterization services

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

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