

# High Frequency Ceramic Solutions

3.6 GHz RF Balun 1:2 Impedance ratio. EIA 0603.

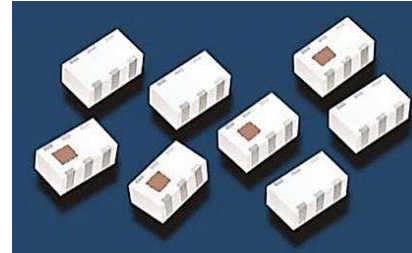
P/N 3600BL14M100

Detail Specification: 10/23/2019

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## General Specifications

Part Number	3600BL14M100
Frequency (MHz)	3300 ~ 3900
Unbalanced Impedance	50 $\Omega$
Differential Balanced Imp.	100 $\Omega$
Insertion Loss	1.2 dB max.
Return Loss	9.5 dB min.
Phase Difference (degree)	180° $\pm$ 15
Amplitude Difference	1.5 dB max.
Reel Quantity	4,000 pcs
Power Capacity	2 Watt max. CW
Operating Temperature	-40 to +120°C



**Recommended Storage Conditions of unused product on T&R**

+5 to +35°C, 18 mos. max.  
Humidity 45~75% RH

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

## Part Number Explanation

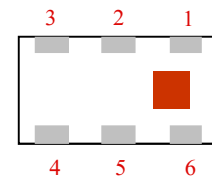
P/N Suffix	Packing Style	Bulk	Suffix = S	Eg. 3600BL14M100S
		T & R	Suffix = T	Eg. 3600BL14M100T
	Termination style	100% Tin	Suffix = None	Eg. 3600BL14M100 (T or S)

## 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 +0.004/0.006	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

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



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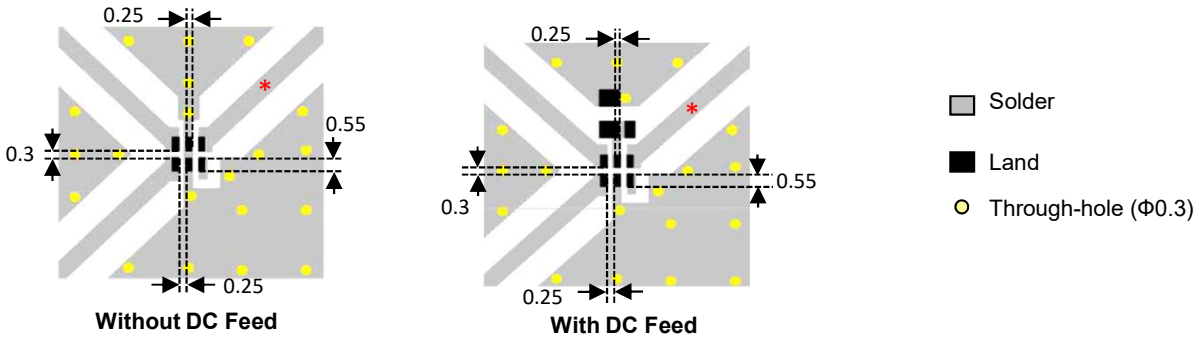
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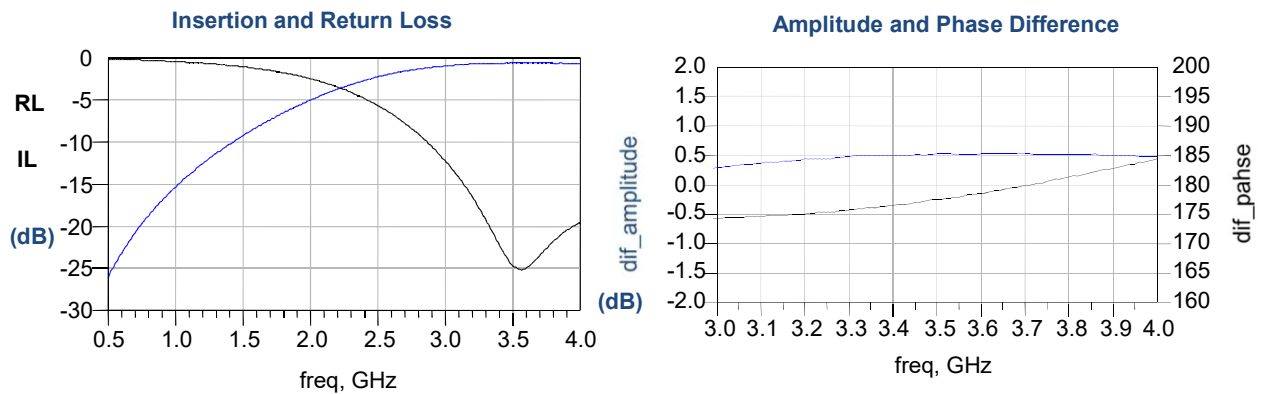
## Mounting Considerations

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 Balun info at:

<https://www.johansontechnology.com/baluns>

## Packaging information

<https://www.johansontechnology.com/tape-reel-packaging>

## Soldering Information

<https://www.johansontechnology.com/ipcsoldering-profile>

## MSL Info

<https://www.johansontechnology.com/msl-rating>

## Recommended Storage Condition and Max Shelf Life

<https://www.johansontechnology.com/recommended-storage-conditions>

## RoHS Compliance

<https://www.johansontechnology.com/rohs-compliance>

## Antenna layout and tuning techniques

<https://www.johansontechnology.com/tuning>

## Antenna layout review, tuning, and characterization services

<https://www.johansontechnology.com/ipc-antenna-services>

## Layout Files, s-parameters and any other technical questions

<https://www.johansontechnology.com/ask-a-question>

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