

High Frequency Ceramic Solutions

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

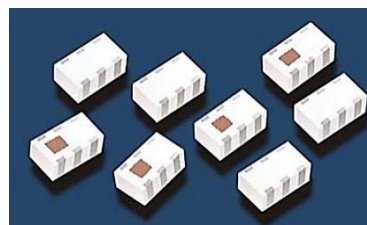
P/N 3600BL14M050

Detail Specification: 1/20/2015

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General Specifications

Part Number	3600BL14M050
Frequency (MHz)	3300 ~ 3900
Unbalanced Impedance	50 Ω
Differential Balanced Imp.	50 Ω
Insertion Loss	1.2 dB max.
Return Loss	9.5 dB min.
Phase Difference (degree)	180° $\pm$ 25
Out of Band Rejection (dB)	9 min. @ 800 - 960 MHz
	3 min. @ 1700 - 1900 MHz
Amplitude Difference	1.5 dB max.
Reel Quantity	4,000 pcs
Power Capacity	1 Watt max. CW



Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Recommended Storage Conditions of unused product on T&R	+5 to +35°C, 18 mos. max. Humidity 45~75% RH

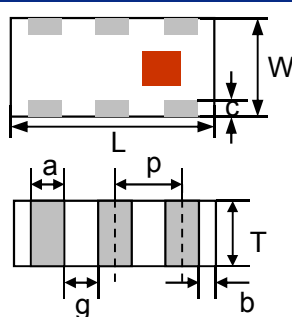
You can download measured s-parameters of this component at: <http://www.johansontechnology.com/rfbaluns>

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)

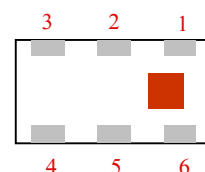
Mechanical Dimensions

	In	mm
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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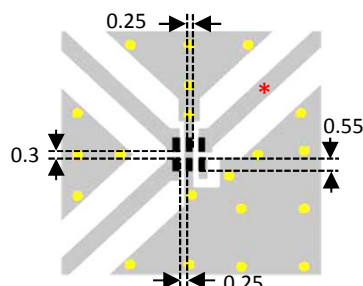
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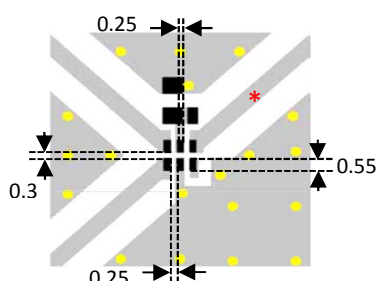
Mounting Considerations

Mount these devices with brown mark facing up.

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



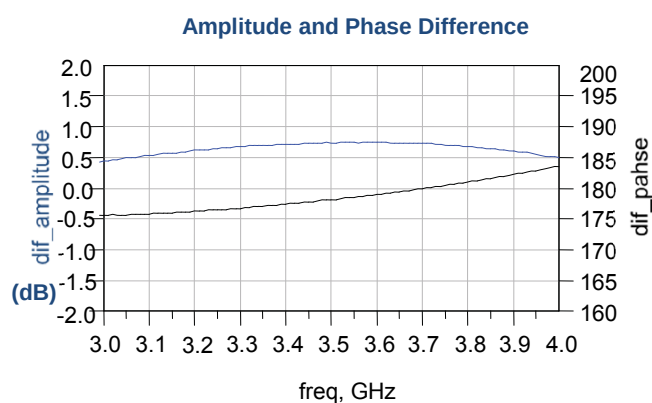
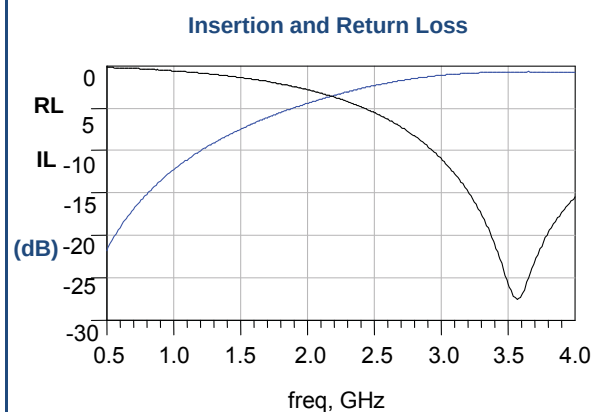
Without DC Feed



With DC Feed

-  Solder
-  Land
-  Through-hole ($\Phi 0.3$)

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

Soldering Information

www.johansontechnology.com/ipcsoldering-profile

MSL Info

www.johansontechnology.com/technical-notes/msl-rating.html

Recommended Storage Condition and Max Shelf Life

www.johansontechnology.com/ipcstorage-shelflife

RoHS Compliance

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

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