

High Frequency Ceramic Solutions

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

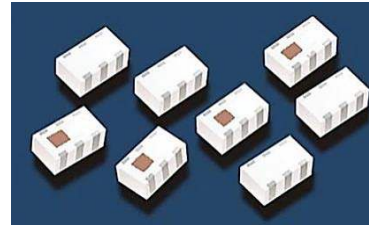
P/N 3600BL14M050

Detail Specification: 1/20/2015

Page 1 of 3

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 | Operating Temperature | -40 to +85°C |
| | 3 min. @ 1700 - 1900 MHz | Storage Temperature | -40 to +85°C |
| Amplitude Difference | 1.5 dB max. | Recommended Storage Conditions of unused product on T&R | +5 to +35°C, 18 mos. max. Humidity 45~75% RH |
| Reel Quantity | 4,000 pcs | | |
| Power Capacity | 1 Watt max. CW | | |



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

Part Number Explanation

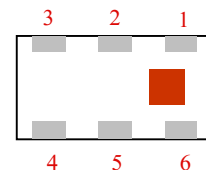
| | | | | |
|-------------------|--------------------------|------------|---------------|--|
| P/N Suffix | Packing Style | Bulk | Suffix = S | Eg. 3600BL14M050S |
| | | T & R | Suffix = T | Eg. 3600BL14M050T |
| | Termination style | 100% Tin | Suffix = None | Eg. 3600BL14M050 (T or S) |
| | | Tin /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

Mechanical Dimensions

| | In | mm |
|----------|--------------------|-----------------|
| 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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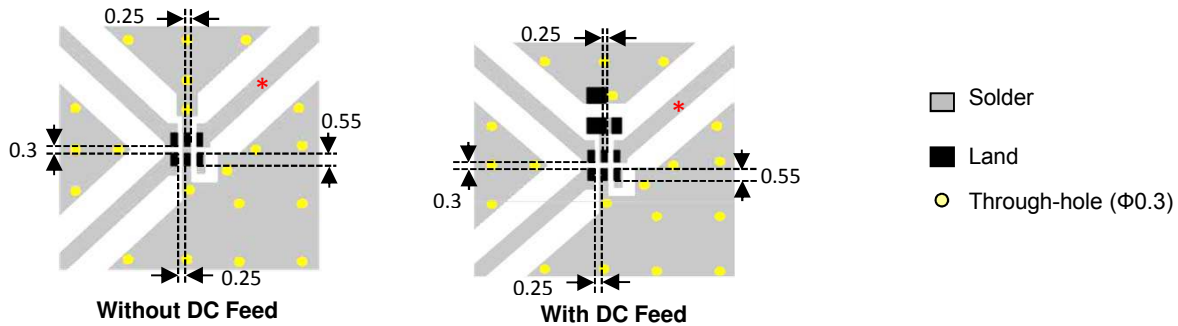
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Page 2 of 3

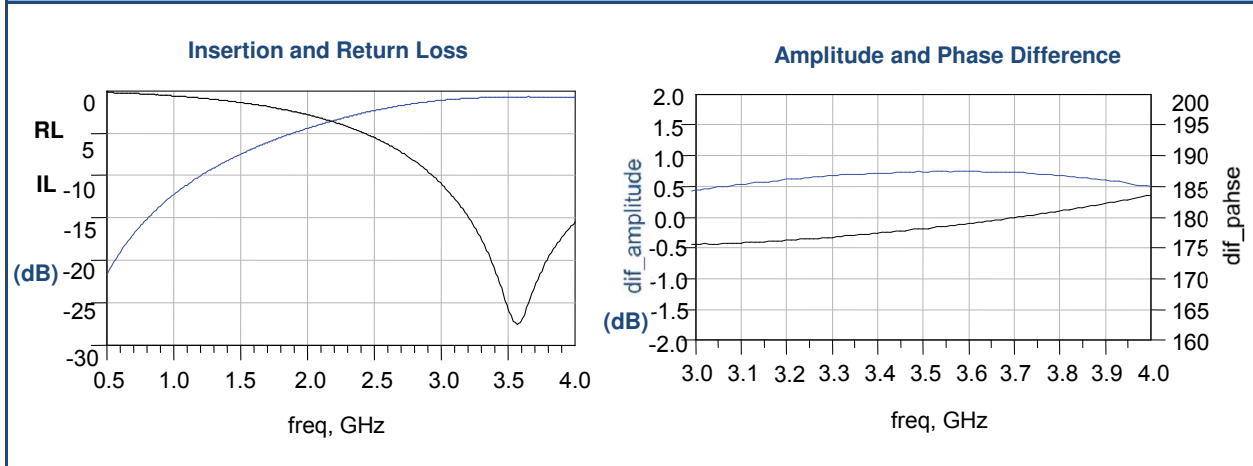
Mounting Considerations

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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Page 3 of 3

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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