

# High Frequency Ceramic Solutions

**2.45 GHz Balun/Match optimized for TI Chipsets CC2430/1 and 2480 P/N 2450BM15A0001**

Detail Specification: 7/7/2010

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## General Specifications

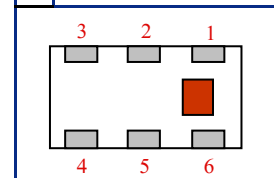
|                                 |  |
|---------------------------------|--|
| Part Number                     | 2450BM15A0001                                  |
| Frequency (MHz)                 | 2400 - 2500                                    |
| Unbalanced Impedance            | 50 Ω   |
| Differential Balanced Impedance | Conj. Match to T.I. Chipsets CC2430 and CC2480 |
| Insertion Loss                  | 1.0 dB max.                                    |
| Return Loss                     | 10.0 dB min.                                   |

|                       |              |
|-----------------------|--------------|
| Phase Difference      | 180° ± 15    |
| Amplitude Difference  | 1.5 dB max.  |
| Operating Temperature | -40 to +85°C |
| Reel Quantity         | 4,000        |

|        |                   |            |                        |                           |
|--------|-------------------|------------|------------------------|---------------------------|
| P/N    | Packaging Style   | Bulk       | Suffix = S             | Eg. 2450BM15A0001S        |
|        |                   | T & R      | Suffix = E             | Eg. 2450BM15A0001E        |
| Suffix | Termination Style | 100% Tin   | Suffix = None          | Eg. 2450BM15A0001(E or S) |
|        |                   | Tin / Lead | Please consult Factory |                           |

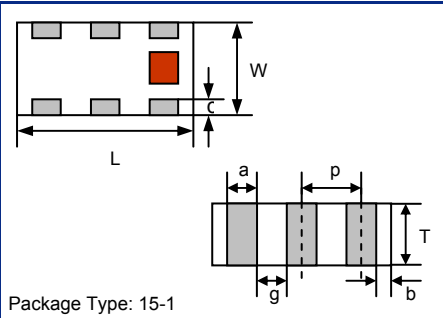
## Terminal Configuration

| No. | Function         |
|-----|------------------|
| 1   | Unbalanced Port* |
| 2   | GND              |
| 3   | GND              |
| 4   | Balanced Port    |
| 5   | DC Feed          |
| 6   | Balanced Port    |



## Mechanical Dimensions

|   | In                 | mm              |
|---|--------------------|-----------------|
| L | 0.079 ± 0.004      | 2.00 ± 0.10     |
| W | 0.049 ± 0.004      | 1.25 ± 0.10     |
| T | 0.028 ± 0.004      | 0.70 ± 0.10     |
| a | 0.012 ± 0.004      | 0.30 ± 0.10     |
| b | 0.008 ± 0.004      | 0.20 ± 0.10     |
| c | 0.012 +.004/-0.008 | 0.30 +0.1/-0.20 |
| g | 0.014 ± 0.004      | 0.35 ± 0.10     |
| p | 0.026 ± 0.002      | 0.65 ± 0.05     |



\* DC blocking capacitor may be required

Johanson Technology, Inc. reserves the right to make design changes without notice.  
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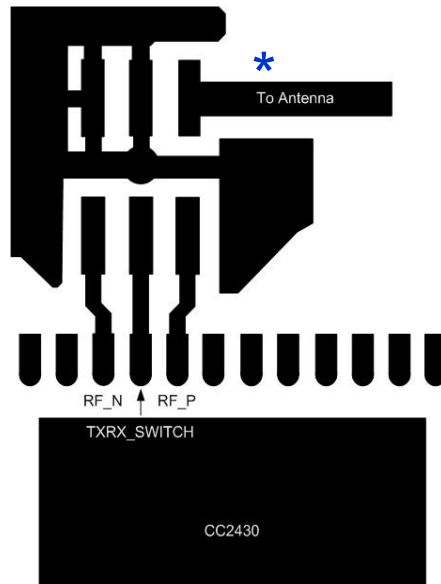
## Mounting Considerations

Mounting layout for reference only.

Mount device with colored mark facing up.

For detailed dimensions, please contact Johanson Technology or visit TI's CC2430 website:

<http://focus.ti.com/docs/prod/folders/print/cc2430.html>

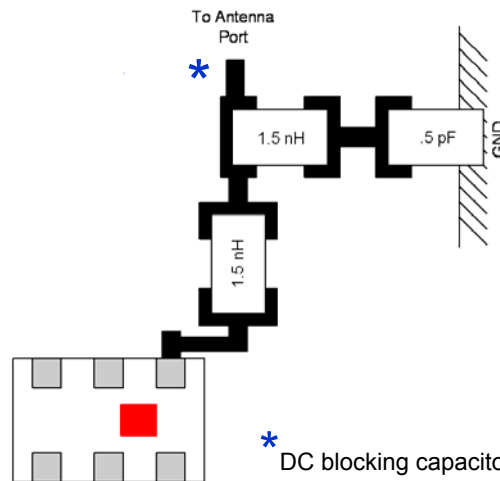


**Note:** Additional output filtering may be required depending on output power in order to comply with FCC and ETSI regulations

Component P/N:

1.5nH Inductor: L-07C1N5SV6T

0.5pF Capacitor: 500R07S0R5BV4T



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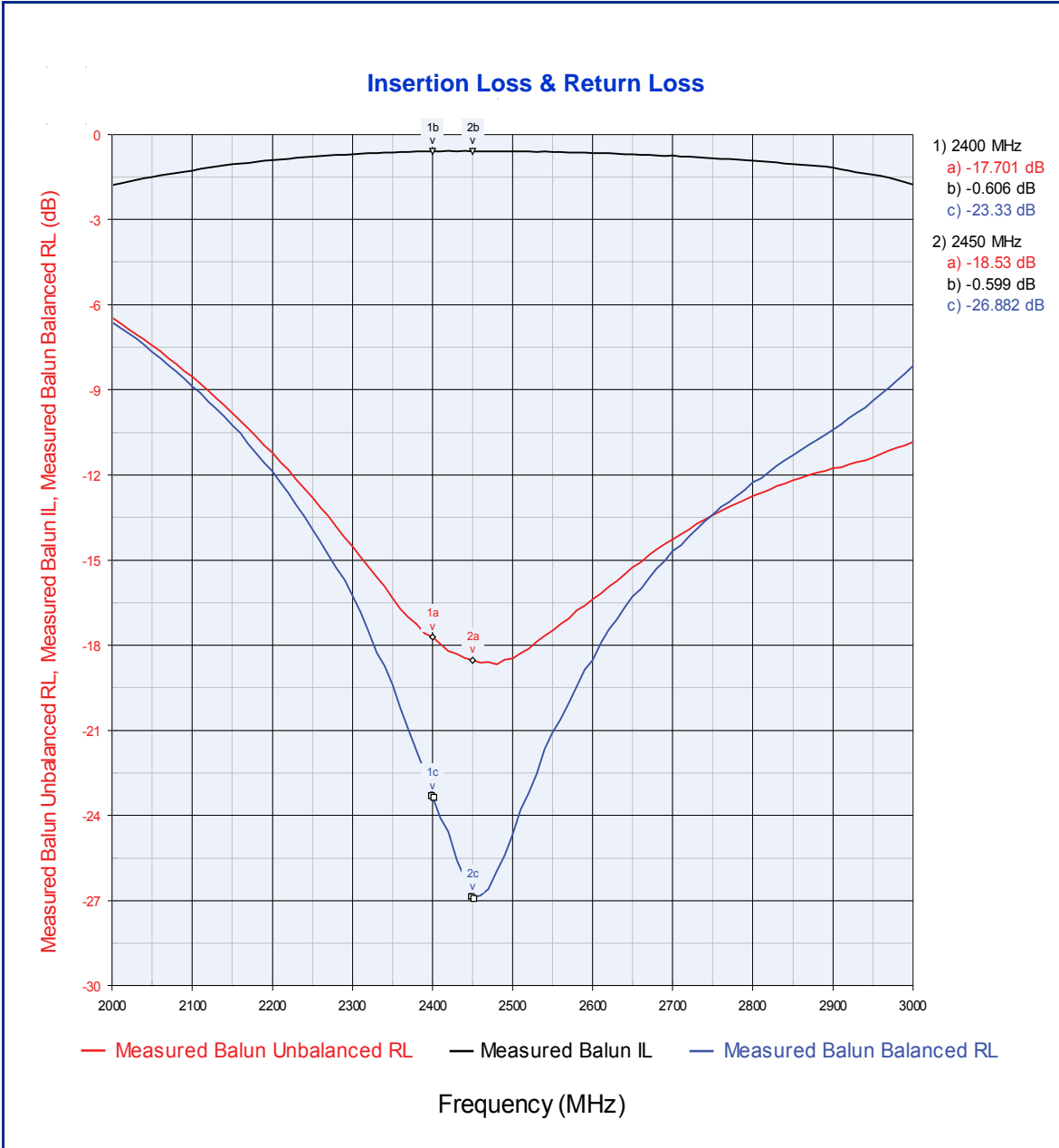
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Typical Electrical Performance (T=25°C)



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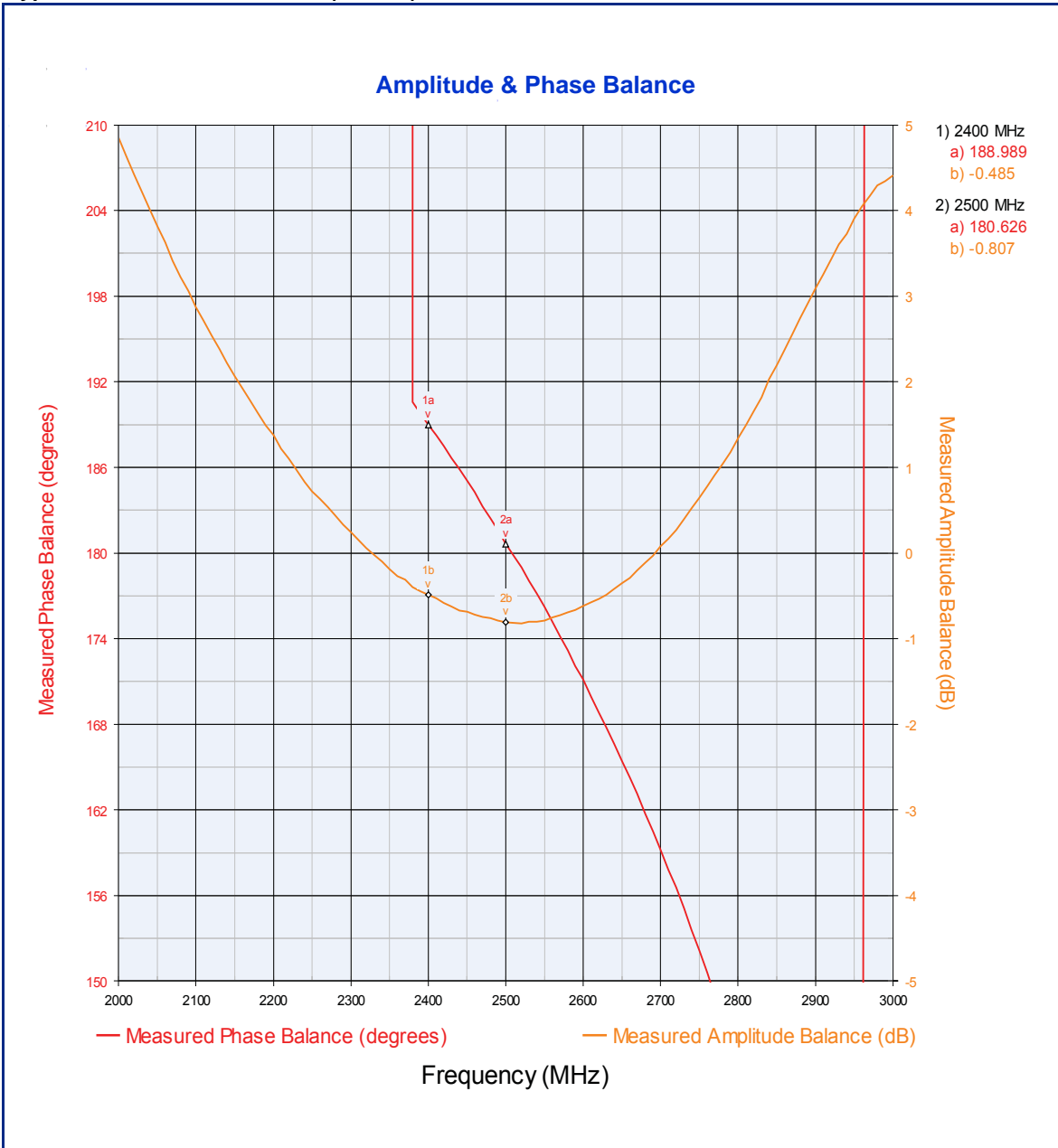
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