

# "High Frequency Ceramic Solutions"

## 2.5 GHz Balun

P/N 2500BL14M050

Detail Specification: 03/01/06

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### General Specifications

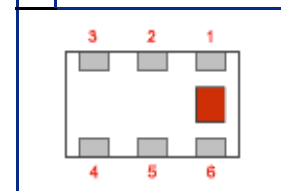
|                                 |              |
|---------------------------------|--------------|
| Part Number                     | 2500BL14M050 |
| Frequency (MHz)                 | 2300~2700    |
| Unbalanced Impedance            | 50 Ω         |
| Differential Balanced Impedance | 50 Ω         |
| Insertion Loss                  | 1.2 dB max.  |
| Return Loss                     | 9.5 dB min.  |

|                       |              |
|-----------------------|--------------|
| Phase Difference      | 180° ± 15    |
| Amplitude Difference  | 1.5 dB max.  |
| Operating Temperature | -40 to +85°C |
| Reel Quantity         | 4,000        |
| Power Capacity        | 3 Watts max. |

|               |                   |            |               |                             |
|---------------|-------------------|------------|---------------|-----------------------------|
| P/N<br>Suffix | Packaging Style   | Bulk       | Suffix = S    | Eg. 2500BL14M050S           |
|               |                   | T & R      | Suffix = E    | Eg. 2500BL14M050E           |
|               | Termination Style | 100% Tin   | Suffix = None | Eg. 2500BL14M050(E or S)    |
|               |                   | Tin / Lead | Suffix = /Pb  | Eg. 2500BL14M050(E or S)/Pb |

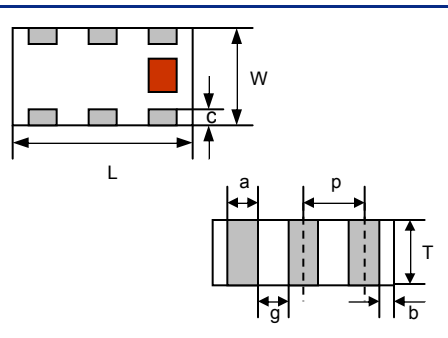
### Terminal Configuration

| No. | Function                 |
|-----|--------------------------|
| 1   | Unbalanced Port (IN)     |
| 2   | GND, or DC feed + RF GND |
| 3   | Balanced Port (OUT1)     |
| 4   | Balanced Port (OUT2)     |
| 5   | GND                      |
| 6   | NC                       |



### Mechanical Dimensions

|   | In                 | mm              |
|---|--------------------|-----------------|
| L | 0.063 ± 0.004      | 1.60 ± 0.10     |
| W | 0.031 ± 0.004      | 0.80 ± 0.10     |
| T | 0.024 ± 0.004      | 0.60 ± 0.10     |
| a | 0.008 ± 0.004      | 0.20 ± 0.10     |
| b | 0.008 +.004/-0.006 | 0.20 +0.1/-0.15 |
| c | 0.006 ± 0.004      | 0.15 ± 0.10     |
| g | 0.012 ± 0.004      | 0.30 ± 0.10     |
| p | 0.020 ± 0.002      | 0.50 ± 0.05     |

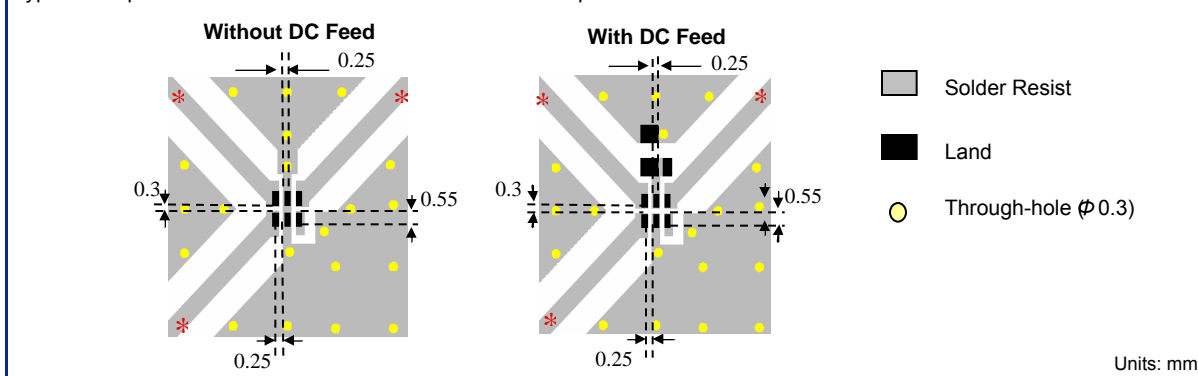


### Mounting Considerations

Mount these devices with brown mark facing up.

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

Bypass components should be inserted when the DC feed option is utilized.



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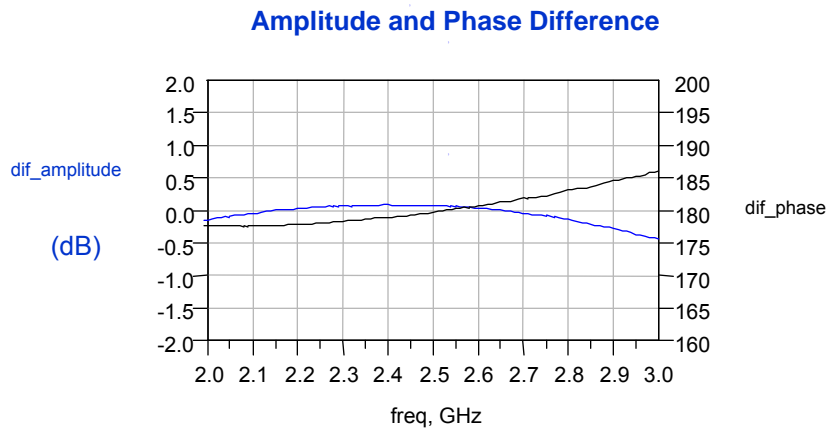
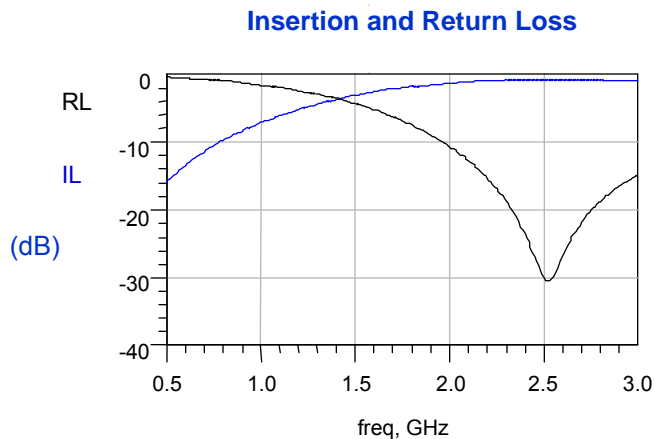
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## Typical Electrical Performance (T=25°C)



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