

# "High Frequency Ceramic Solutions"

## 465 MHz Balun

P/N 0465BL15B100

Detail Specification: 08/11/06

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### General Specifications

|                    |              |
|--------------------|--------------|
| Part Number        | 0465BL15B100 |
| Frequency (MHz)    | 460 - 470    |
| Balanced Impedance | 100 $\Omega$ |
| Insertion Loss     | 1.0 dB max.  |
| Return Loss        | 9.5 dB min.  |

|                       |                |
|-----------------------|----------------|
| Phase Difference      | 180° $\pm$ 10  |
| Amplitude Difference  | 1.5 dB max.    |
| Operating Temperature | -40 to +85°C   |
| Reel Quantity         | 4,000          |
| Power Capacity        | 0.5 watts max. |

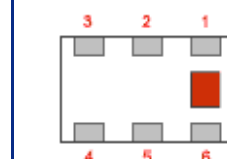
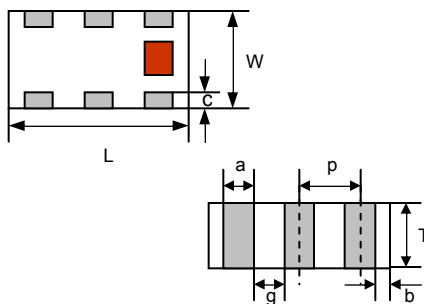
|               |             |            |                        |                          |
|---------------|-------------|------------|------------------------|--------------------------|
| P/N<br>Suffix | Packaging   | Bulk       | Suffix = S             | Eg. 0465BL15B100S        |
|               | Style       | T & R      | Suffix = E             | Eg. 0465BL15B100E        |
|               | Termination | 100% Tin   | Suffix = None          | Eg. 0465BL15B100(E or S) |
|               | Style       | Tin / Lead | Please consult Factory |                          |

### Terminal Configuration

| No. | Function             |
|-----|----------------------|
| 1   | Balanced Port (OUT1) |
| 2   | GND                  |
| 3   | Balanced Port (OUT2) |
| 4   | Unbalanced Port (IN) |
| 5   | NC                   |
| 6   | GND                  |

### Mechanical Dimensions

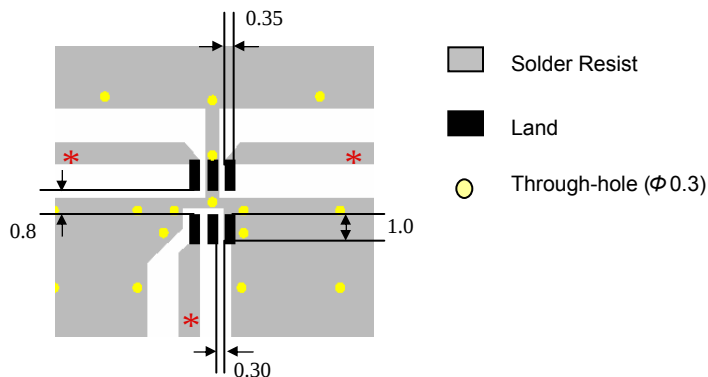
|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.079 $\pm$ 0.004 | 2.00 $\pm$ 0.10 |
| W | 0.049 $\pm$ 0.004 | 1.25 $\pm$ 0.10 |
| T | 0.037 $\pm$ 0.004 | 0.95 $\pm$ 0.10 |
| a | 0.012 $\pm$ 0.004 | 0.30 $\pm$ 0.10 |
| b | 0.008 $\pm$ 0.004 | 0.20 $\pm$ 0.10 |
| c | 0.012 $\pm$ 0.004 | 0.30 $\pm$ 0.10 |
| g | 0.014 $\pm$ 0.004 | 0.35 $\pm$ 0.10 |
| p | 0.026 $\pm$ 0.002 | 0.65 $\pm$ 0.05 |



### Mounting Considerations

Mount these devices with brown mark facing up.

\* Line width should be designed to match 50  $\Omega$  characteristic impedance, depending on PCB material and thickness.



Units: mm

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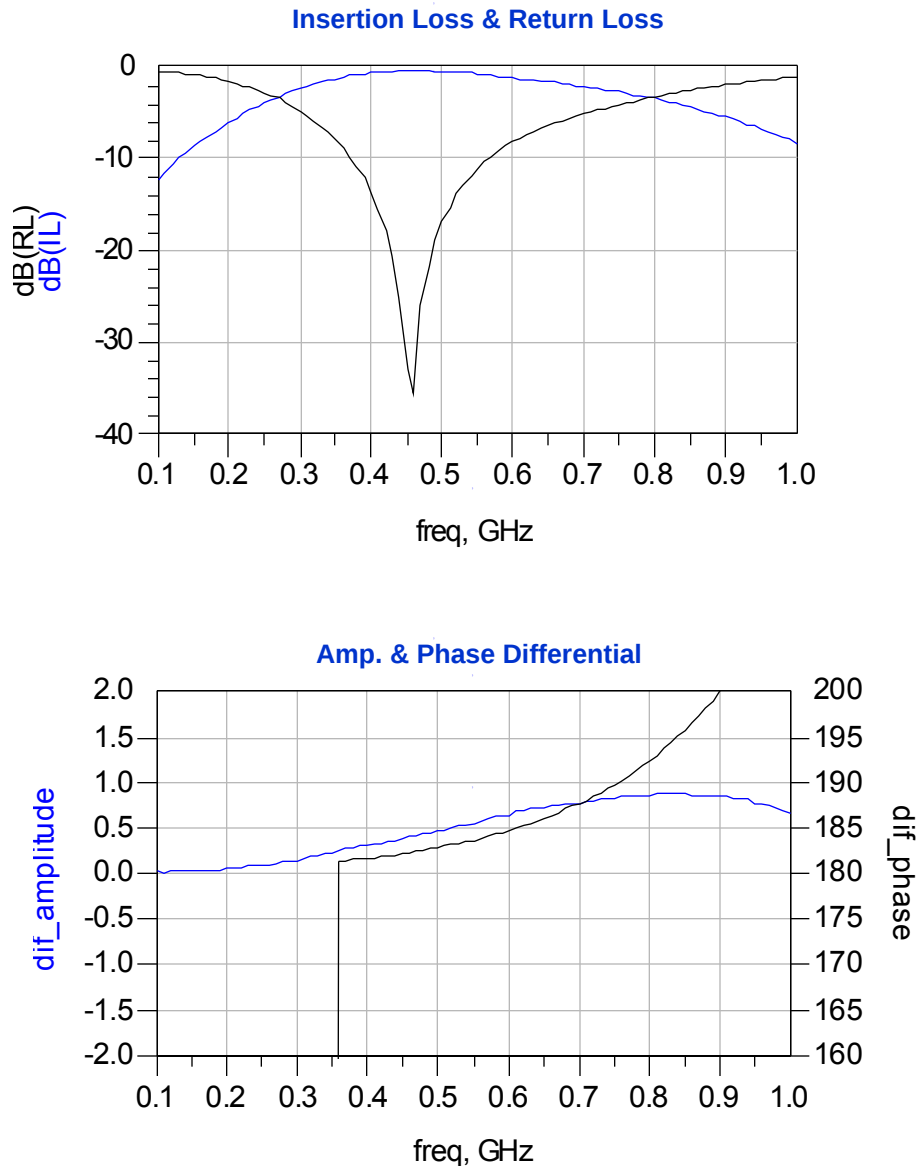
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## Typical Electrical Performance (T=25°C)



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