

High Frequency Ceramic Solutions

Preliminary

900 MHz Balun

P/N 0900BL15A100

Detail Specification: 07/30/08

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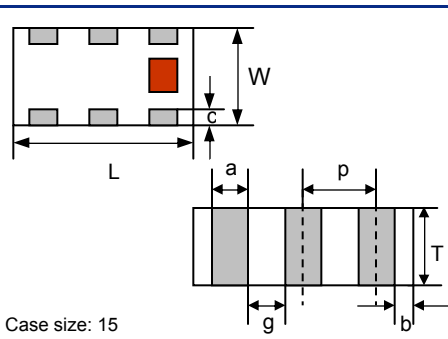
General Specifications

| | |
|----------------------------|--------------|
| Part Number | 0900BL15A100 |
| Frequency (MHz) | 900 - 1000 |
| Unbalanced Impedance | 50 Ω |
| Differential Balanced Imp. | 100 Ω |
| Insertion Loss | 1.2 dB max. |
| Return Loss | 9.5 dB min. |
| Phase Difference (degree) | 180 \pm 10 |
| Amplitude Difference | 2.0 dB max. |

| | |
|-----------------------|--------------|
| Operating Temperature | -40 to +85°C |
| Reel Quantity | 4,000 |
| Power Capacity | 3W max. |

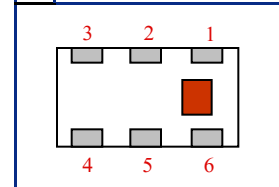
Mechanical Dimensions

| | In | mm |
|---|-------------------|-----------------|
| L | 0.079 \pm 0.008 | 2.00 \pm 0.20 |
| W | 0.049 \pm 0.008 | 1.25 \pm 0.20 |
| T | 0.028 \pm 0.004 | 0.70 \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 +.004/-.008 | 0.30 +0.1/-0.2 |
| g | 0.014 \pm 0.004 | 0.35 \pm 0.10 |
| p | 0.026 \pm 0.002 | 0.65 \pm 0.05 |



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 |

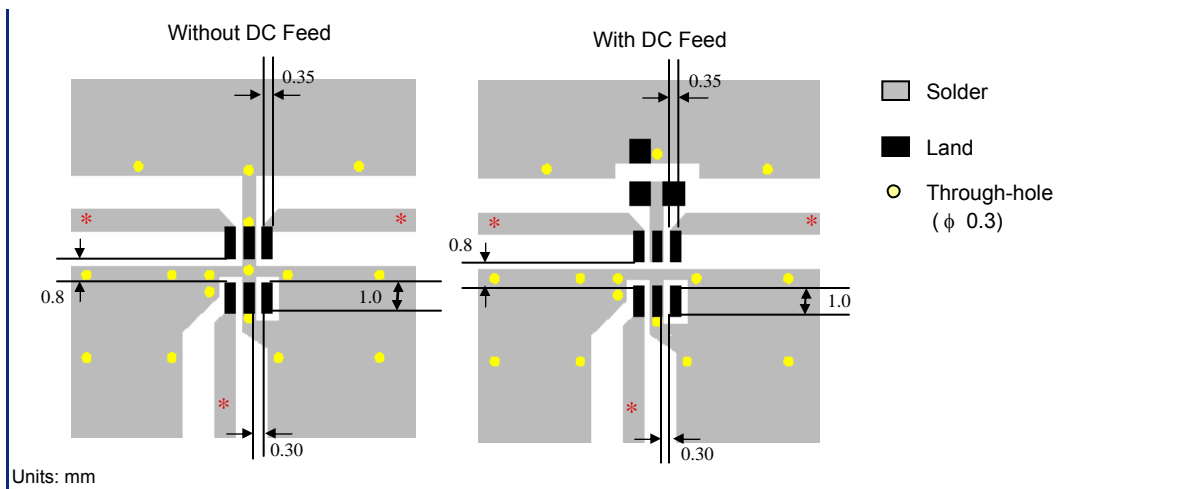


Mounting Considerations

Mount these devices with brown mark facing up.

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

** By-pass capacitor should be connected when feeding DC power.



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www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

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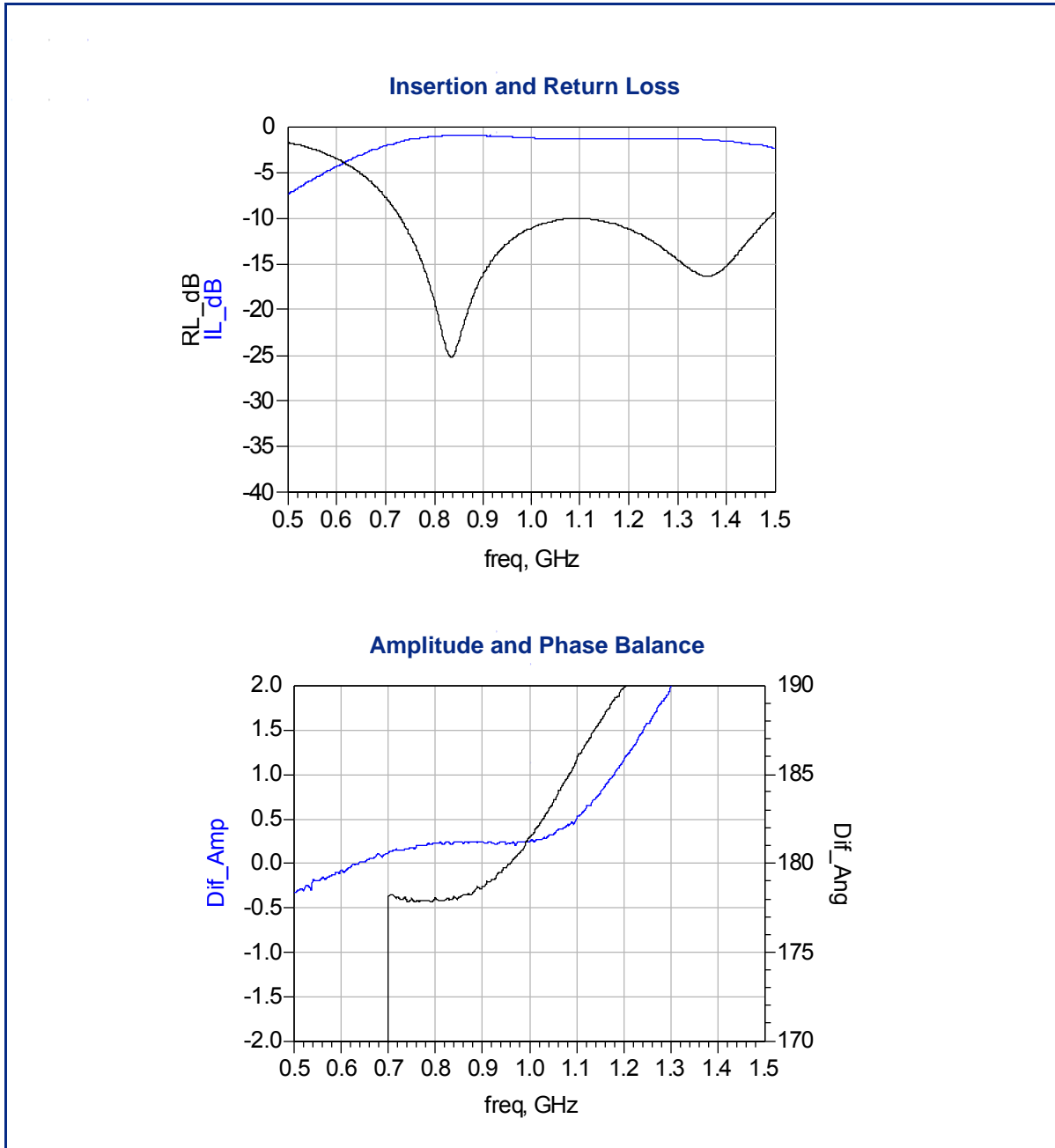
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Typical Electrical Performance (T=25°C)



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