

"High Frequency Ceramic Solutions"

900 MHz Balun

Detail Specification: 03/06/2003

P/N 0917BL18B100

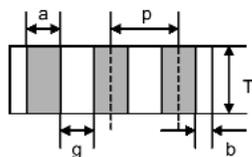
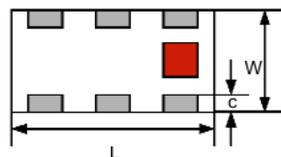
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| Part Number | Frequency (MHz) | Impedance Unbal. / Bal. | Insertion Loss | Return Loss | Phase Difference | Amplitude Difference |
|---------------|-----------------|-------------------------|----------------|-------------|------------------|----------------------|
| 0917BL18B100_ | 889 - 945 | 50/100 Ω | 1.0 dB max. | 9.5 dB min. | 180°±10° | 2.0 dB max. |

| Input Power | Impedance | Operating Temperature Range | Reel Qty |
|-------------|-------------------|-----------------------------|----------|
| 3 Watts max | 50 / 100 Ω | -40 to +85°C | 3,000 |

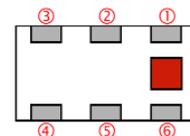
Mechanical Dimensions

| | L | W | T | a | b | c | g | p |
|--------|--------------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
| Inches | 0.126 ± .006 | 0.064 ± .006 | 0.034 ± .004 | 0.022 ± .006 | 0.014 ± .006 | 0.012 ± .004 / -.008 | 0.016 ± .006 | 0.039 ± .004 |
| mm | 3.2 ± 0.15 | 1.6 ± 0.15 | 0.85 ± 0.1 | 0.55 ± 0.15 | 0.35 ± 0.15 | 0.3 ± 0.1 / -0.2 | 0.4 ± 0.15 | 1.0 ± 0.1 |



Terminal Configuration

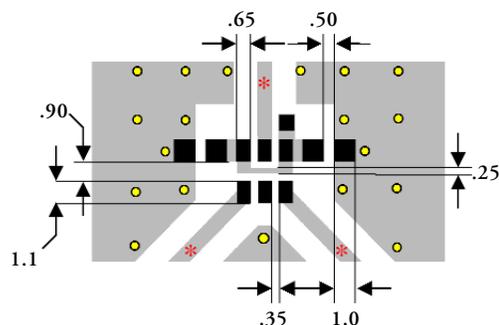
| | | | |
|---|---------------------|---|-------------------|
| 1 | GND or DC Feed | 4 | Balanced Port (2) |
| 2 | Unbalanced Port (1) | 5 | NC |
| 3 | GND or DC Feed | 6 | Balanced Port (3) |



Mounting Considerations

Mount devices with colored mark facing up.

With DC Feed

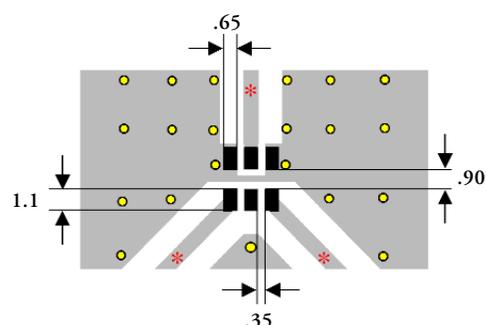


* Line width should be designed to provide 50 Ω impedance matching characteristics.

By-pass capacitor(s) should be connected when feeding DC power.
Units: mm

- Solder Resist
- Land
- Through-hole (ϕ 0.3)

Without DC Feed



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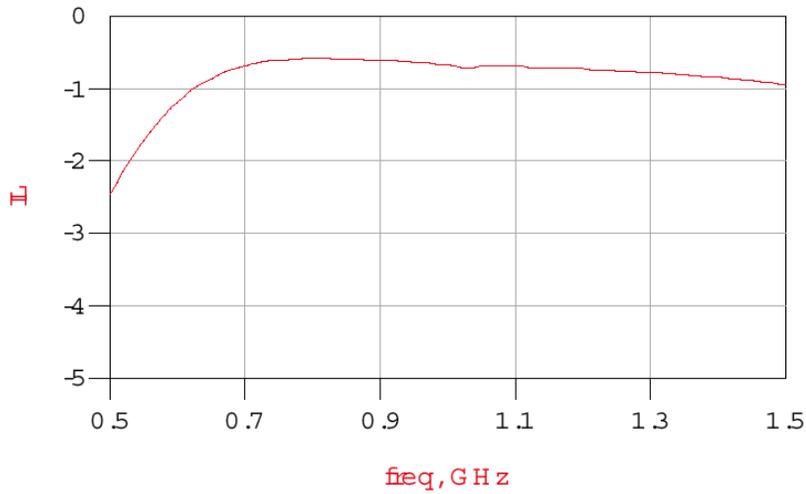
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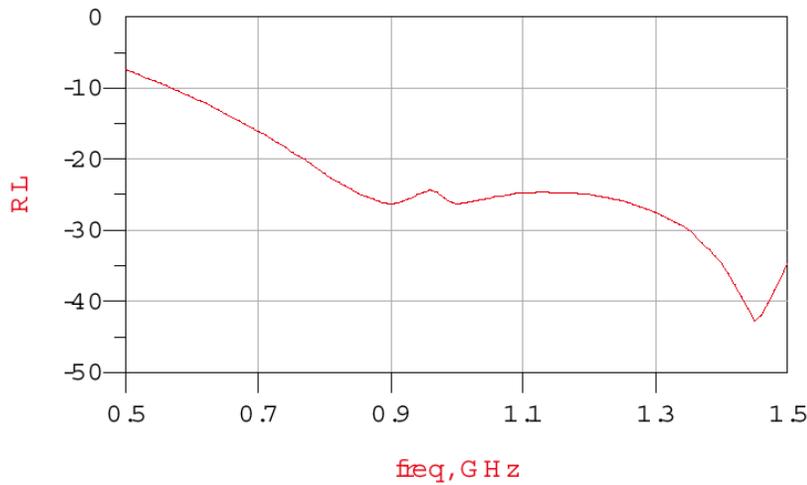
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Insertion Loss



Return Loss



Mouser Electronics

Authorized Distributor

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