

# "High Frequency Ceramic Solutions"

**Splitter, 3dB Hybrid; 1900-2000 MHz**

**P/N 1950CH15A100**

Detail Specification: 06/02/09

Page 1 of 2

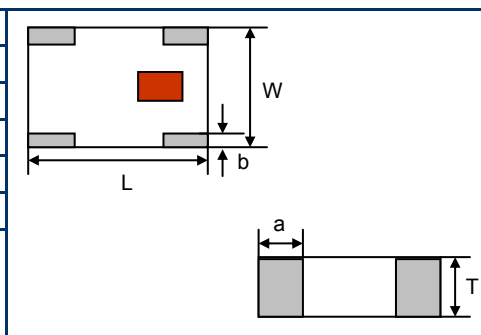
**General Specifications** (based on term. contact seeing a 50 ohm load)

|                               |                   |
|-------------------------------|-------------------|
| <b>Part Number</b>            | 1950CH15A100      |
| <b>Frequency (MHz)</b>        | 1900 ~ 2000       |
| <b>Insertion Loss @ BW</b>    | 3.3 ± 0.5 dB max. |
| <b>Return Loss (dB)</b>       | 14.0 min.         |
| <b>Amplitude Balance (dB)</b> | 1.0 max.          |
| <b>Phase Deviation</b>        | 90° ± 3           |
| <b>Isolation (dB)</b>         | 16.0 min.         |

|                              |              |
|------------------------------|--------------|
| <b>Power Capacity</b>        | 2 Watts max. |
| <b>Impedance</b>             | 50 Ω         |
| <b>Operating Temperature</b> | -40 to +85°C |
| <b>Reel Quantity</b>         | 4,000        |

## Mechanical Dimensions

|          | In            | mm          |
|----------|---------------|-------------|
| <b>L</b> | 0.080 ± 0.004 | 2.03 ± 0.10 |
| <b>W</b> | 0.061 ± 0.004 | 1.55 ± 0.10 |
| <b>T</b> | 0.039 ± 0.006 | 0.98 ± 0.15 |
| <b>a</b> | 0.022 ± 0.010 | 0.56 ± 0.25 |
| <b>b</b> | 0.014 ± 0.006 | 0.35 ± 0.15 |



## Terminal Configuration

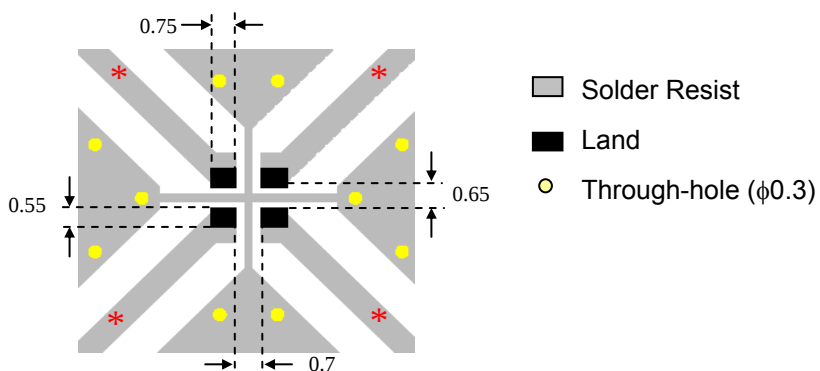
| No.      | Function     |
|----------|--------------|
| <b>1</b> | 50 ohm Term. |
| <b>2</b> | IN           |
| <b>3</b> | OUT2         |
| <b>4</b> | OUT1         |

## Mounting Considerations

Mount these devices with brown mark facing up.

Line width should provide 50Ω impedance matching characteristics.

Units: mm



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

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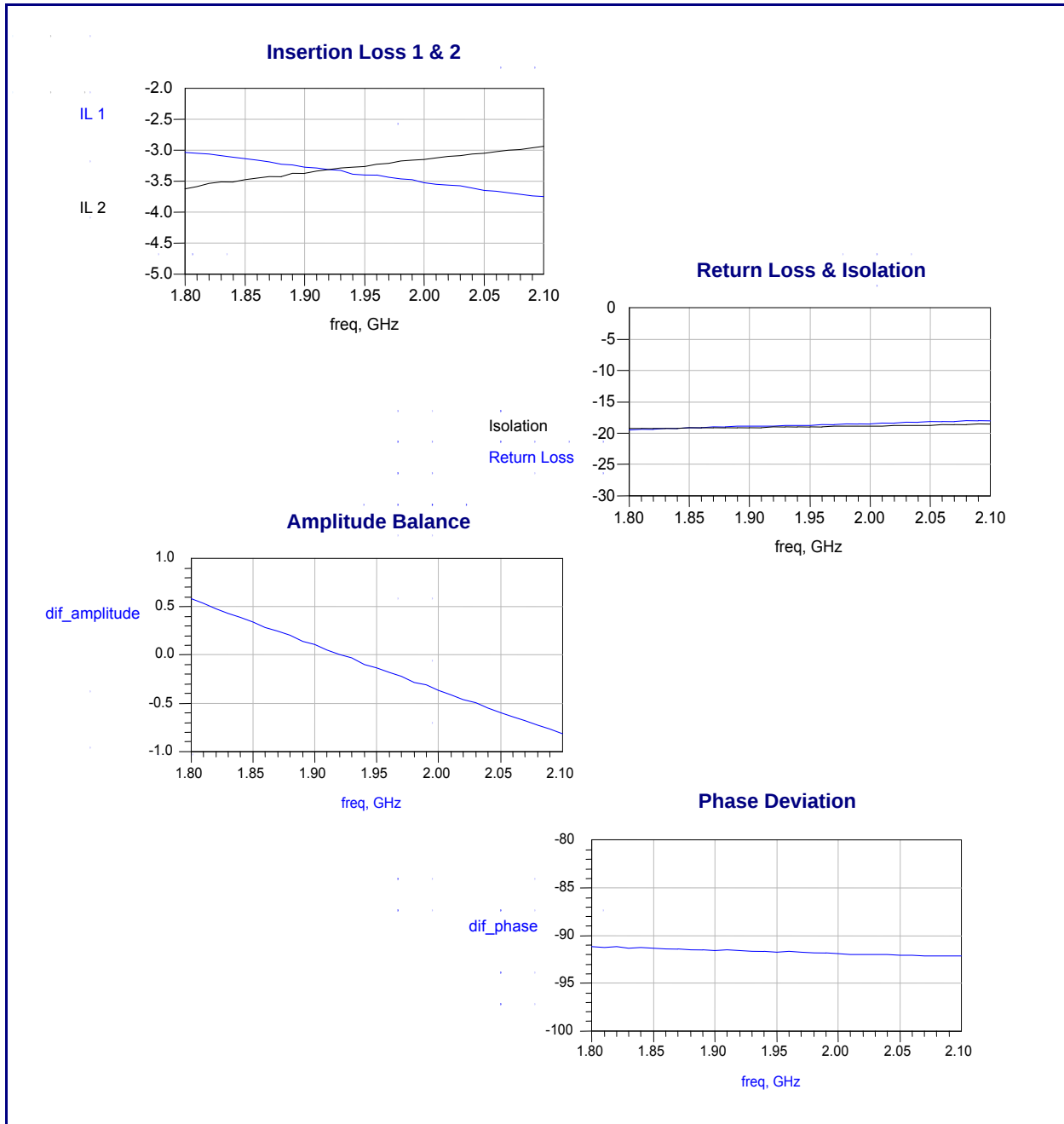
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Page 2 of 2

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



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