

# High Frequency Ceramic Solutions

## 2450 MHz Band Pass Filter

P/N 2450BP07A0100

Detail Specification: 01/29/07

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### General Specifications

|                    |                         |
|--------------------|-------------------------|
| Part Number        | 2450BP07A0100           |
| Frequency (MHz)    | 2400 - 2500             |
| Attenuation (min.) | 25 dB @ 824 - 960 MHz   |
| Attenuation (min.) | 25 dB @ 1710 - 1910 MHz |
| Attenuation (min.) | 25 dB @ 4800 - 5000 MHz |
| Attenuation (min.) | 15 dB @ 7200 - 7500 MHz |

|                       |              |
|-----------------------|--------------|
| Insertion Loss        | 2.5 dB max.  |
| Return Loss           | 9.5 dB min.  |
| Impedance             | 50 Ω         |
| Input Power           | 500 mW max.  |
| Operating Temperature | -40 to +85°C |
| Storage Temperature   | -40 to +85°C |
| Reel Quantity         | 10,000       |

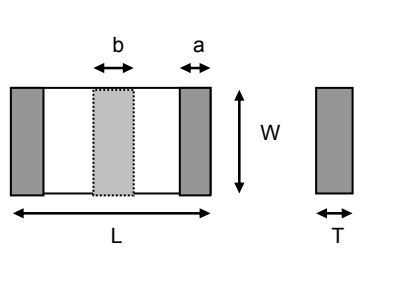
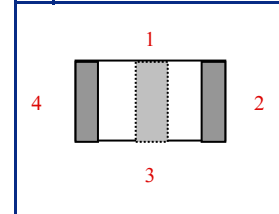
|        |                   |            |               |                              |
|--------|-------------------|------------|---------------|------------------------------|
| P/N    | Packaging Style   | Bulk       | Suffix = S    | Eg. 2450BP07A0100S           |
|        | Termination Style | T & R      | Suffix = E    | Eg. 2450BP07A0100E           |
| Suffix | Termination Style | 100% Tin   | Suffix = None | Eg. 2450BP07A0100(E or S)    |
|        | Termination Style | Tin / Lead | Suffix = /Pb  | Eg. 2450BP07A0100(E or S)/Pb |

### Terminal Configuration

| No. | Function |
|-----|----------|
| 1   | GND      |
| 2   | OUT      |
| 3   | GND      |
| 4   | IN       |

### Mechanical Dimensions

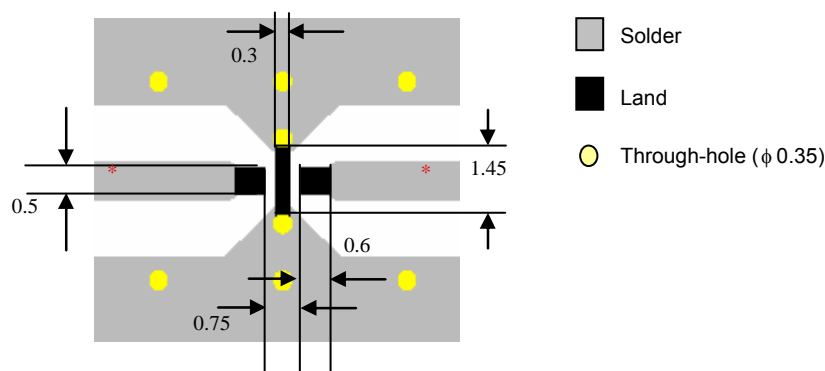
|   | In            | mm          |
|---|---------------|-------------|
| L | 0.039 ± 0.002 | 1.00 ± 0.05 |
| W | 0.020 ± 0.002 | 0.50 ± 0.05 |
| T | 0.015 ± 0.002 | 0.38 ± 0.05 |
| a | 0.006 ± 0.004 | 0.15 ± 0.10 |
| b | 0.010 ± 0.004 | 0.25 ± 0.10 |

### Mounting Considerations

Mount these devices with brown mark facing up.

\* Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness



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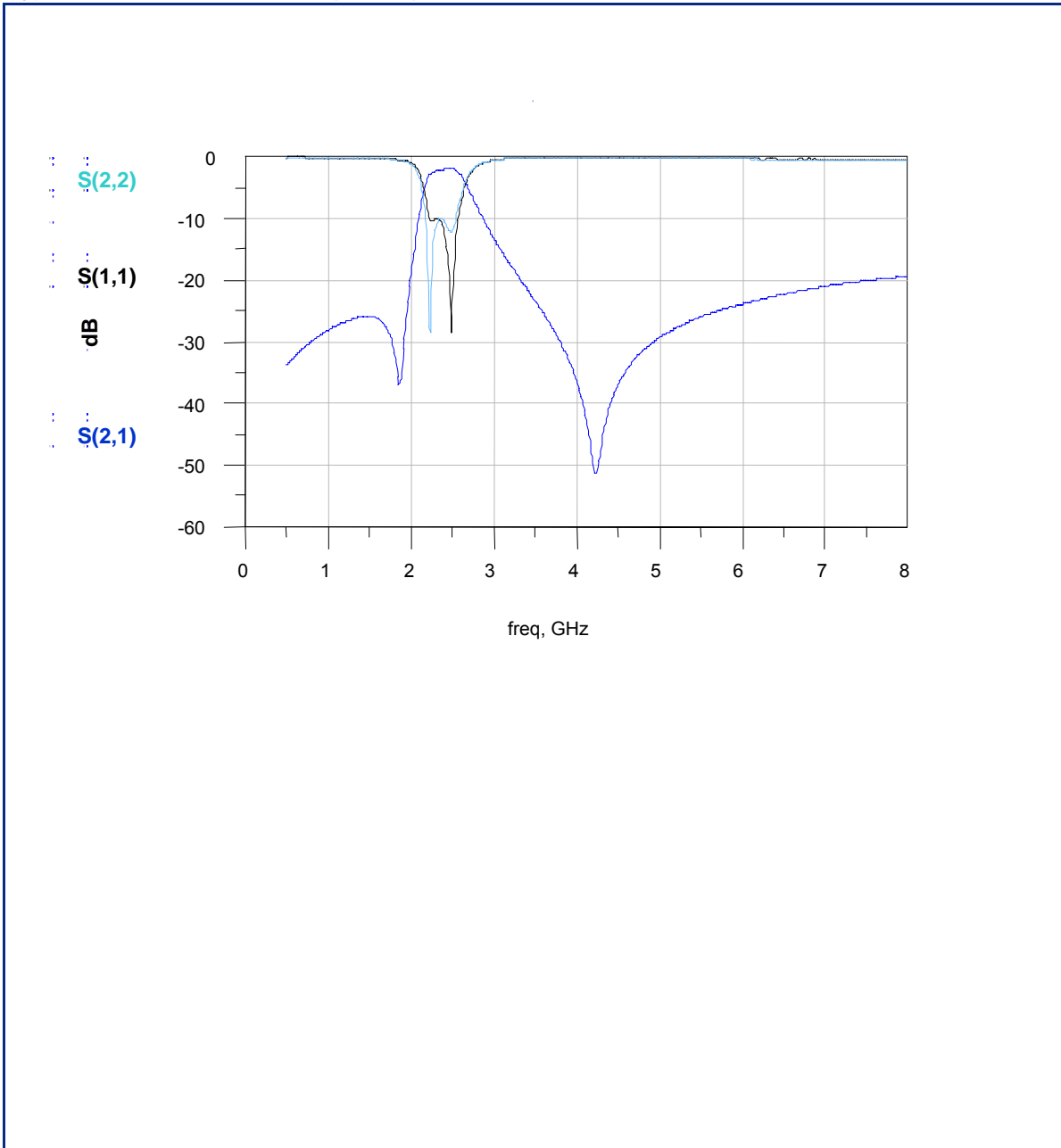
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## Typical Electrical Performance (T=25°C)



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