

# High Frequency Ceramic Solutions

## 2.45 GHz Band Pass Filter

P/N 2450BP39F100A

Detail Specification: 08/12/08

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### General Specifications

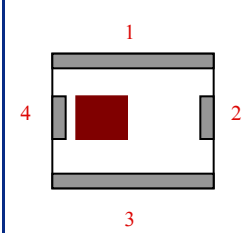
|                    |                |       |
|--------------------|----------------|-------|
| Part Number        | 2450BP39F100A  |       |
| Frequency (MHz)    | 2400 - 2500    |       |
| Insertion Loss     | 2.4 dB max.    |       |
| Return Loss        | 9.5 dB min.    |       |
| Attenuation (min.) | 880 ~ 915MHz   | 45 dB |
| Attenuation (min.) | 1710 ~ 1990MHz | 48 dB |
| Attenuation (min.) | 2110 ~ 2170MHz | 20 dB |
| Attenuation (min.) | 4800 ~ 5000MHz | 30 dB |
| Attenuation (min.) | 7200 ~ 7500MHz | 36 dB |

|                       |                                   |
|-----------------------|-----------------------------------|
| Input Power           | 500 mW max.                       |
| Impedance             | 50 $\Omega$                       |
| Operating Temperature | -40 to +85°C                      |
| Storage Temperature   | +5 to +35°C,<br>Humidity 45-75%RH |
| Storage Period        | 12 months max*                    |

\* - 1 yr shelf life in bag; 1 week shelf life out of bag;  
Vacuum reseal unused reel

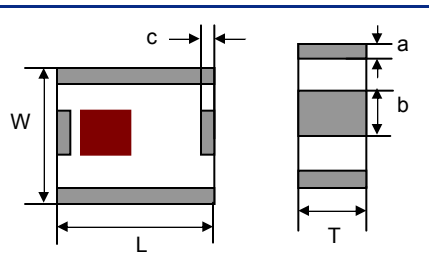
### Terminal Configuration

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



### Mechanical Dimensions

|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.098 $\pm$ 0.008 | 2.50 $\pm$ 0.20 |
| W | 0.079 $\pm$ 0.008 | 2.00 $\pm$ 0.20 |
| T | 0.037 $\pm$ 0.004 | 0.95 $\pm$ 0.10 |
| a | 0.012 $\pm$ 0.008 | 0.30 $\pm$ 0.20 |
| b | 0.024 $\pm$ 0.008 | 0.60 $\pm$ 0.20 |
| c | 0.012 $\pm$ 0.008 | 0.30 $\pm$ 0.20 |

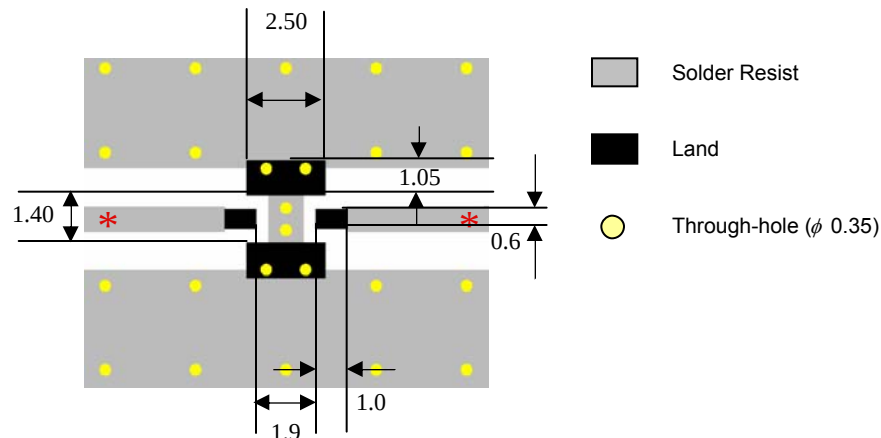


### Mounting Considerations

Mount these devices with brown mark facing up.

\* Line width should be designed to provide 50  $\Omega$  impedance matching characteristics.

Units: mm



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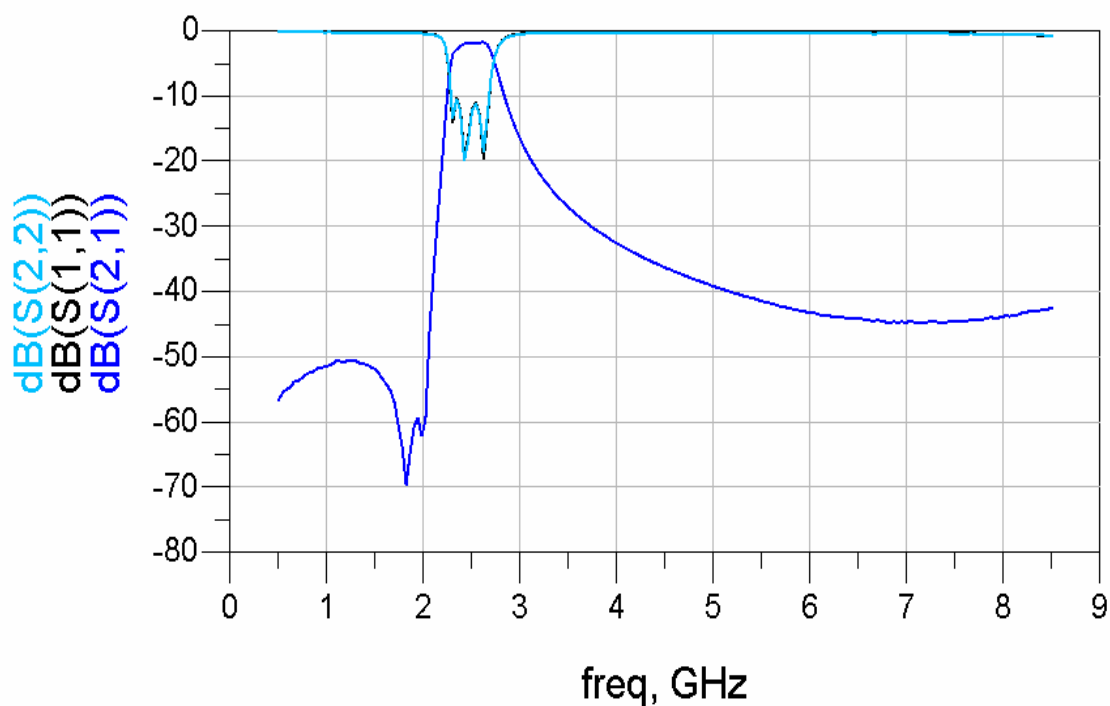
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### Typical Electrical Performance (T=25°C)



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