

# "High Frequency Ceramic Solutions"

## 2.45 GHz Band Pass Filter

P/N 2450BP39D100B

Detail Specification: 10/18/05

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### General Specifications

|                    |                         |
|--------------------|-------------------------|
| Part Number        | 2450BP39D100B           |
| Frequency (MHz)    | 2400 - 2500             |
| Insertion Loss     | 2.5 dB max.             |
| Return Loss        | 9.5 dB min.             |
| Attenuation (min.) | 35 dB @ 880 - 915 MHz   |
| Attenuation (min.) | 18 dB @ 1710 - 1990 Mhz |
| Attenuation (min.) | 12 dB @ 2100 MHz        |
| Attenuation (min.) | 35 dB @ 3200 MHz        |
| Attenuation (min.) | 22 dB @ 4800 - 5000 MHz |
| Attenuation (min.) | 22 dB @ 7200 - 7500 MHz |

|                       |              |
|-----------------------|--------------|
| Impedance             | 50 $\Omega$  |
| Input Power           | 500 mW max.  |
| Operating Temperature | -40 to +85°C |
| Storage Temperature   | -40 to +85°C |
| Reel Quantity         | 3,000        |

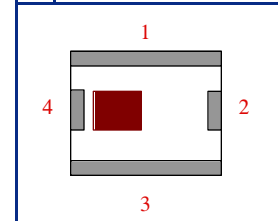
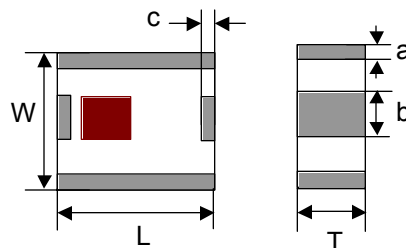
|                   |            |                 |                      |
|-------------------|------------|-----------------|----------------------|
| Termination Style | 100% Tin   | Suffix = "None" | eg. 2450BP39D100B    |
|                   | Tin / Lead | Suffix = "/Pb"  | eg. 2450BP39D100B/Pb |

### Terminal Configuration

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

### Mechanical Dimensions

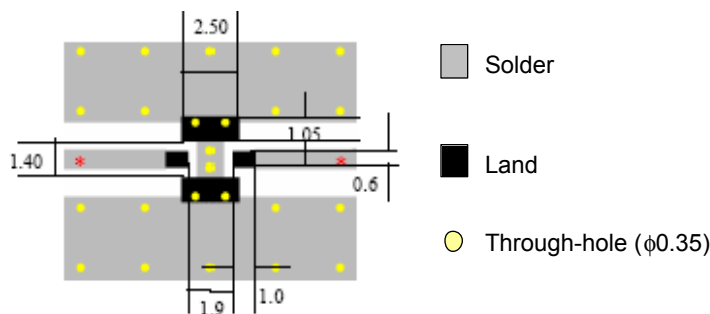
|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.098 $\pm$ 0.008 | 2.50 $\pm$ 0.20 |
| W | 0.079 $\pm$ 0.008 | 2.00 $\pm$ 0.20 |
| T | 0.037 $\pm$ 0.004 | 0.95 $\pm$ 0.10 |
| a | 0.012 $\pm$ 0.008 | 0.30 $\pm$ 0.20 |
| b | 0.024 $\pm$ 0.008 | 0.60 $\pm$ 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 ohm impedance, depending on PCB material and thickness



Units: mm

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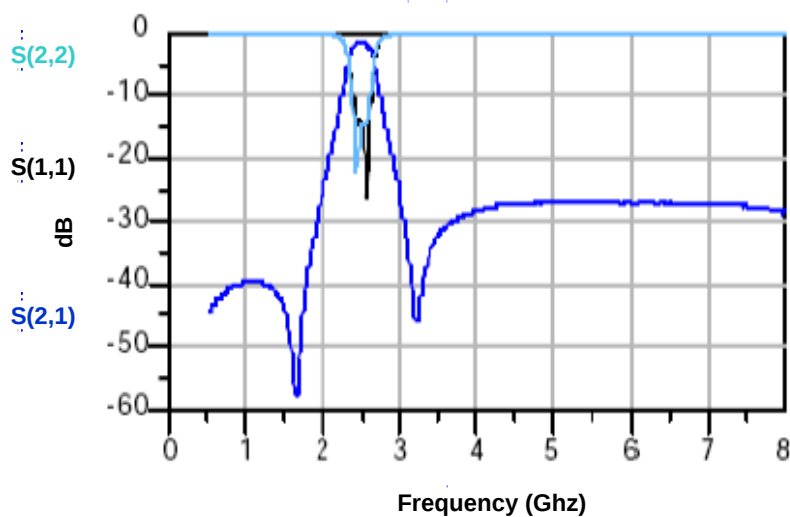
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### Typical Electrical Performance (T=25°C)



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