

# PRELIMINARY

## 2.45 GHz Band Pass Filter

P/N 2450BP15D100

Detail Specification: 03/06/06

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### General Specifications

|                    |                 |       |
|--------------------|-----------------|-------|
| Part Number        | 2450BP15D100    |       |
| Frequency (MHz)    | 2400 - 2500     |       |
| Insertion Loss     | 2.6 dB max.     |       |
| Return Loss        | 9.5 dB min.     |       |
| Attenuation (min.) | 880 ~ 1990 MHz  | 30 dB |
| Attenuation (min.) | 2110 ~ 2170 MHz | 20 dB |
| Attenuation (min.) | 4800 ~ 5000 MHz | 30 dB |
| Attenuation (min.) | 7200 ~ 7500 MHz | 20 dB |

|                       |              |
|-----------------------|--------------|
| Input Power           | 3 Watts max. |
| Impedance             | 50 $\Omega$  |
| Operating Temperature | -40 to +85°C |
| Storage Temperature   | -40 to +85°C |
| Reel Quantity         | 4,000        |

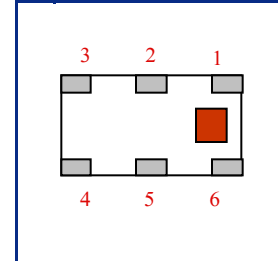
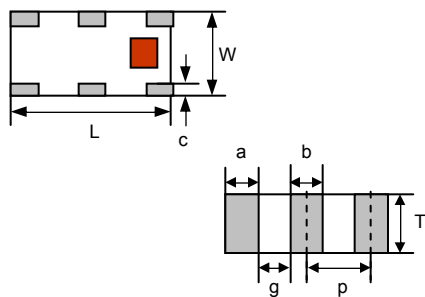
|               |                   |            |               |                             |
|---------------|-------------------|------------|---------------|-----------------------------|
| P/N<br>Suffix | Packaging Style   | Bulk       | Suffix = S    | Eg. 2450BP15D100S           |
|               |                   | T & R      | Suffix = E    | Eg. 2450BP15D100E           |
|               | Termination Style | 100% Tin   | Suffix = None | Eg. 2450BP15D100(E or S)    |
|               |                   | Tin / Lead | Suffix = /Pb  | Eg. 2450BP15D100(E or S)/Pb |

### Terminal Configuration

| No. | Function |
|-----|----------|
| 1   | GND      |
| 2   | IN       |
| 3   | GND      |
| 4   | GND      |
| 5   | OUT      |
| 6   | GND      |

### Mechanical Dimensions

|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.079 $\pm$ 0.004 | 2.00 $\pm$ 0.10 |
| W | 0.049 $\pm$ 0.004 | 1.25 $\pm$ 0.10 |
| T | 0.022 $\pm$ 0.004 | 0.55 $\pm$ 0.10 |
| a | 0.016 $\pm$ 0.016 | 0.40 $\pm$ 0.40 |
| b | 0.016 $\pm$ 0.016 | 0.40 $\pm$ 0.40 |
| c | 0.012 +.004/-.008 | 0.30 +0.1/-0.2  |
| g | 0.016 $\pm$ 0.008 | 0.40 $\pm$ 0.20 |
| p | 0.031 $\pm$ 0.004 | 0.80 $\pm$ 0.10 |

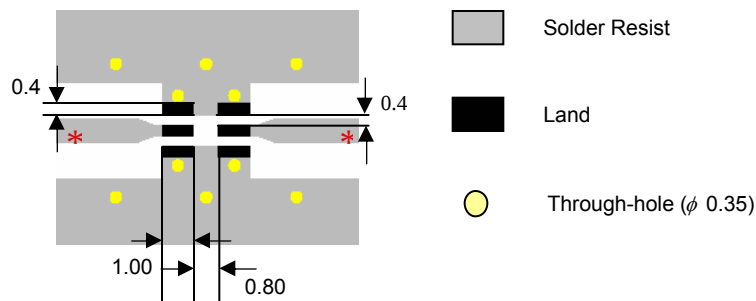


### Mounting Considerations

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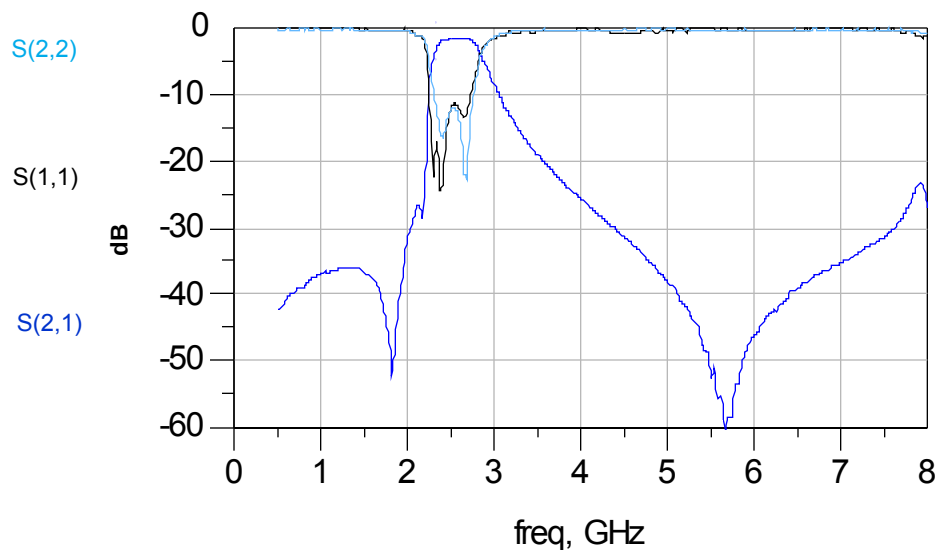
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### Typical Electrical Performance (T=25°C)



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