

# "High Frequency Ceramic Solutions"

## 2.45 GHz Band Pass Filter

P/N 2450BP18C100C

Detail Specification: 10/21/10

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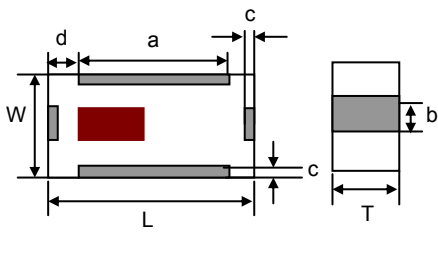
### General Specifications

|                    |                 |       |
|--------------------|-----------------|-------|
| Part Number        | 2450BP18C100C   |       |
| Frequency (MHz)    | 2400 - 2500     |       |
| Insertion Loss     | 2.5 dB max.     |       |
| Return Loss        | 9.5 dB min.     |       |
| Ripple             | 0.7 dB min.     |       |
| Attenuation (min.) | 900 ~ 928 MHz   | 40 dB |
| Attenuation (min.) | 1200 ~ 1800 MHz | 30 dB |
| Attenuation (min.) | 2100 MHz        | 25 dB |
| Attenuation (min.) | 4800 ~ 5000 MHz | 35 dB |
| Attenuation (min.) | 7200 ~ 7500 MHz | 40 dB |

|                       |   |
|-----------------------|---|
| Input Power           | 500 mW max.                                   |
| Impedance             | 50 $\Omega$                                   |
| Operating Temperature | -40 to +85°C                                  |
| Storage Temperature   | +5 to +35°C, Humidity: 45-75%RH, 12 mos. Max* |
| Reel Quantity         | 3,000   |

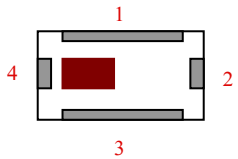
### Mechanical Dimensions

|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.126 $\pm$ 0.006 | 3.20 $\pm$ 0.15 |
| W | 0.063 $\pm$ 0.006 | 1.60 $\pm$ 0.15 |
| T | 0.037 $\pm$ 0.004 | 0.95 $\pm$ 0.10 |
| a | 0.075 $\pm$ 0.006 | 1.90 $\pm$ 0.15 |
| b | 0.020 $\pm$ 0.006 | 0.50 $\pm$ 0.15 |
| c | 0.012 $\pm$ 0.008 | 0.30 $\pm$ 0.20 |
| g | 0.026 $\pm$ 0.008 | 0.65 $\pm$ 0.20 |



### Terminal Configuration

| No. | Function |
|-----|----------|
| 1   | GND      |
| 2   | I/O      |
| 3   | GND      |
| 4   | I/O      |

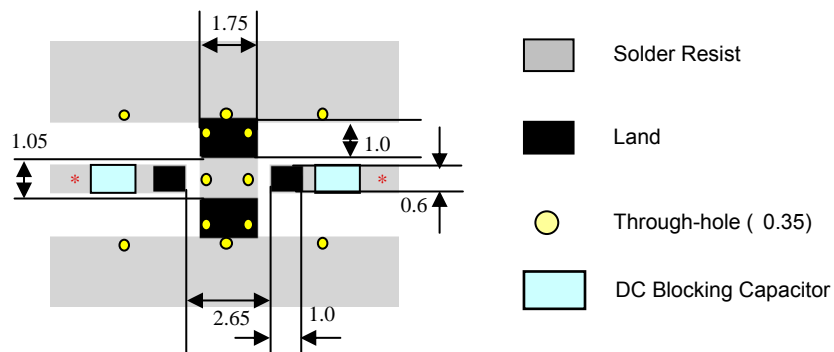


### Mounting Considerations

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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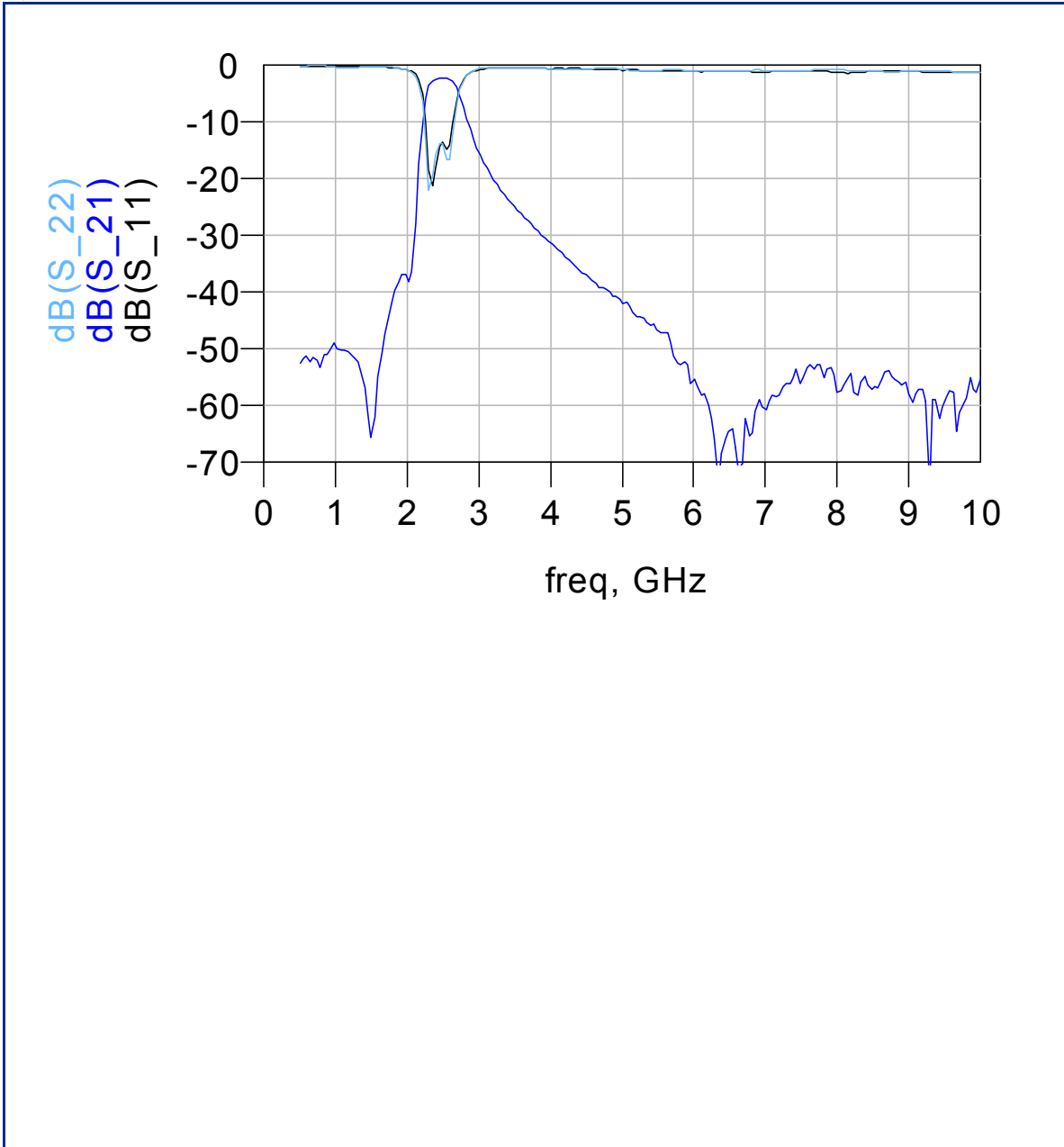
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Typical Electrical Performance (T=25°C)



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