

"High Frequency Ceramic Solutions"

2.45 GHz Band Pass Filter

P/N 2450BP18C100E

Detail Specification: 08/18/08

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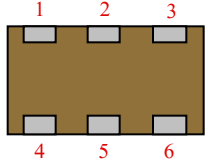
General Specifications

| | |
|--------------------|-----------------------|
| Part Number | 2450BP18C100E |
| Frequency (MHz) | 2450 ± 50 |
| Insertion Loss | 2.5 dB max. |
| Return Loss | 9.5 dB min. |
| Attenuation (min.) | 40 dB @ 1.2 - 1.8 GHz |
| Attenuation (min.) | 25 dB @ 2.1 GHz |
| Attenuation (min.) | 35 dB @ 4.8 - 5.0 GHz |
| Attenuation (min.) | 25 dB @ 7.2 - 7.5 GHz |

| | |
|-----------------------|--|
| Ripple | 0.7 dB max. |
| Impedance | 50 Ω |
| Input Power | 3 Watt max. |
| Reel Quantity | 3,000 |
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| Operating Temperature | -40 to +85°C |
| Storage Temperature | +5 to +35°C, Humidity: 45-75%RH, 12 mos. max |

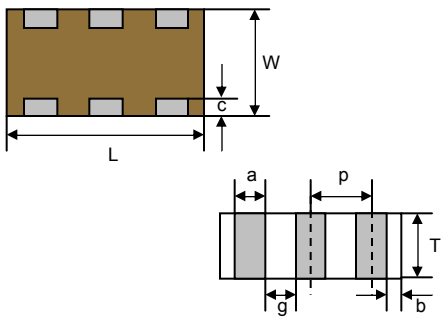
| | | | |
|-------------------|------------|-----------------|----------------------|
| Termination Style | 100% Tin | Suffix = "None" | eg. 2450BP18C100E |
| | Tin / Lead | Suffix = "/Pb" | eg. 2450BP18C100E/Pb |

| Terminal Configuration | |
|------------------------|----------|
| No. | Function |
| 1 | I/O |
| 2 | GND |
| 3 | GND |
| 4 | GND |
| 5 | GND |
| 6 | I/O |



Mechanical Dimensions

| | In | mm |
|---|--------------------|----------------|
| L | 0.126 ± 0.006 | 3.20 ± 0.15 |
| W | 0.063 ± 0.006 | 1.60 ± 0.15 |
| T | 0.033 ± 0.004 | 0.85 ± 0.10 |
| a | 0.022 ± 0.006 | 0.55 ± 0.15 |
| b | 0.014 ± 0.006 | 0.35 ± 0.15 |
| c | 0.012 +.004/-0.008 | 0.30 +0.1/-0.2 |
| g | 0.016 ± 0.006 | 0.40 ± 0.15 |
| p | 0.039 ± 0.004 | 1.00 ± 0.10 |

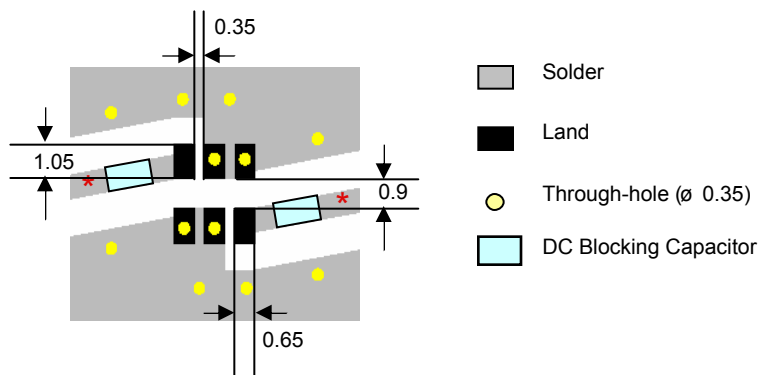


Mounting Considerations

Mount these devices with brown mark facing up.

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

Units: mm



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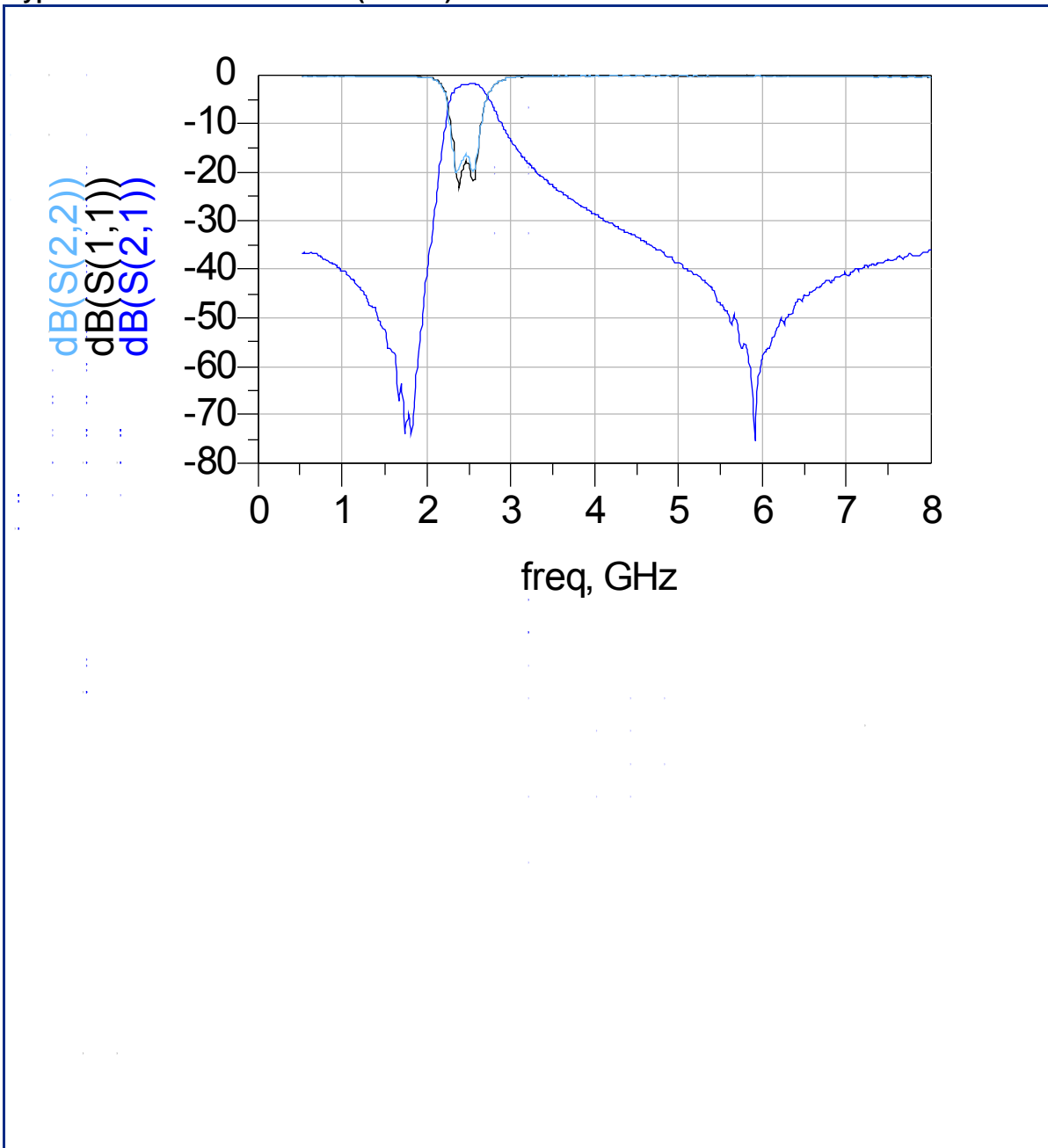
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Typical Electrical Performance (T=25°C)



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