

# “High Frequency Ceramic Solutions”

## 2.45 GHz Band Pass Filter

P/N 2450BP41D100

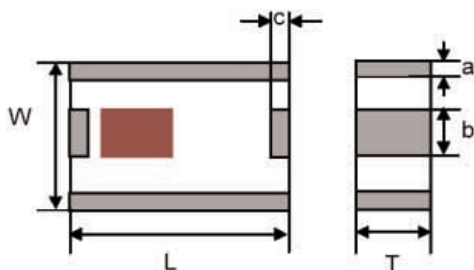
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| Part Number   | Frequency (MHz) | Insertion Loss | Attenuation (min.)  | Return Loss | Ripple      |
|---------------|-----------------|----------------|---|-------------|-------------|
| 2450BP41D100_ | 2450 ± 50       | 2.5 dB max     | 40 dB @ 1.2 - 1.8 GHz<br>30 dB @ 2.1 GHz<br>12 dB @ 2.2 GHz<br>35 dB @ 4.8 - 5.0 GHz<br>25 dB @ 7.2 - 7.5 GHz<br>20 dB @ 9.6 - 10.0 GHz | 9.5 dB min. | 0.7 dB min. |

| Input Power   | Group Delay | Impedance | Operating Temperature Range |
|---------------|-------------|-----------|-----------------------------|
| 500 mWatt max | 5 nsec max  | 50 Ω      | -40 to +85°C                |

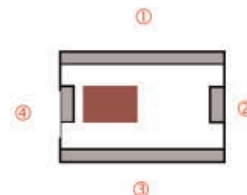
### Mechanical Dimensions

|        | L            | W            | T            | a            | b            | c            |
|--------|--------------|--------------|--------------|--------------|--------------|--------------|
| Inches | 0.126 ± .008 | 0.098 ± .008 | 0.059 ± .004 | 0.016 ± .008 | 0.024 ± .008 | 0.012 ± .006 |
| mm     | 3.2 ± 0.2    | 2.5 ± 0.2    | 1.5 ± 0.1    | 0.4 ± 0.2    | 0.6 ± 0.2    | 0.30 ± 0.15  |



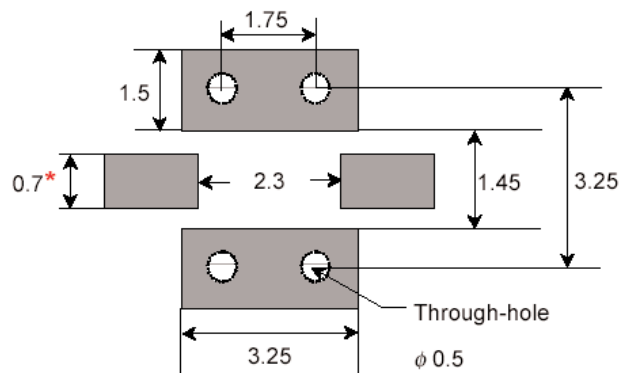
### Terminal Configuration

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



### Mounting Considerations

Line width should be designed to provide 50Ω impedance matching characteristics.



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Typical Transmission / Return Loss: P/N 2450BP43C100

