

# "High Frequency Ceramic Solutions"

## 2.45 GHz Band Pass Filter

P/N 2450BP18C100D

Detail Specification: 02/13/2003

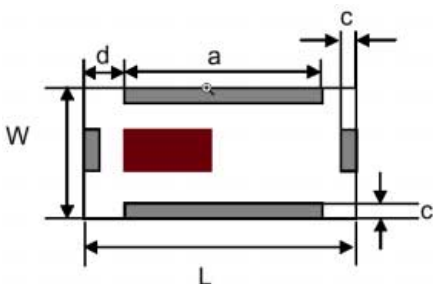
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| Part Number   | Frequency (MHz) | Insertion Loss | Attenuation (min.)                                                                                                | Return Loss | Ripple      |
|---------------|-----------------|----------------|-------------------------------------------------------------------------------------------------------------------|-------------|-------------|
| 2450BP18C100D | 2400 -2500      | 2.0 dB max     | 40 dB @ 900-928 MHz<br>30 dB @ 1.2 - 1.8 GHz<br>25 dB @ 2.1 GHz<br>35 dB @ 4.8 - 5.0 GHz<br>30 dB @ 7.2 - 7.5 GHz | 9.5 dB min. | 0.7 dB min. |

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

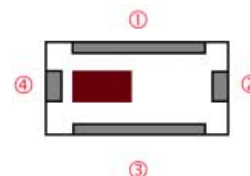
### Mechanical Dimensions

|        | L            | W            | T            | a            | b            | c            | d            |
|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Inches | 0.126 ± .006 | 0.063 ± .006 | 0.051 ± .004 | 0.075 ± .006 | 0.020 ± .006 | 0.012 ± .008 | 0.026 ± .008 |
| mm     | 3.2 ± 0.15   | 1.6 ± 0.15   | 1.3 ± 0.1    | 1.9 ± 0.15   | 0.5 ± 0.15   | 0.30 ± 0.2   | 0.65 ± 0.2   |



### Terminal Configuration

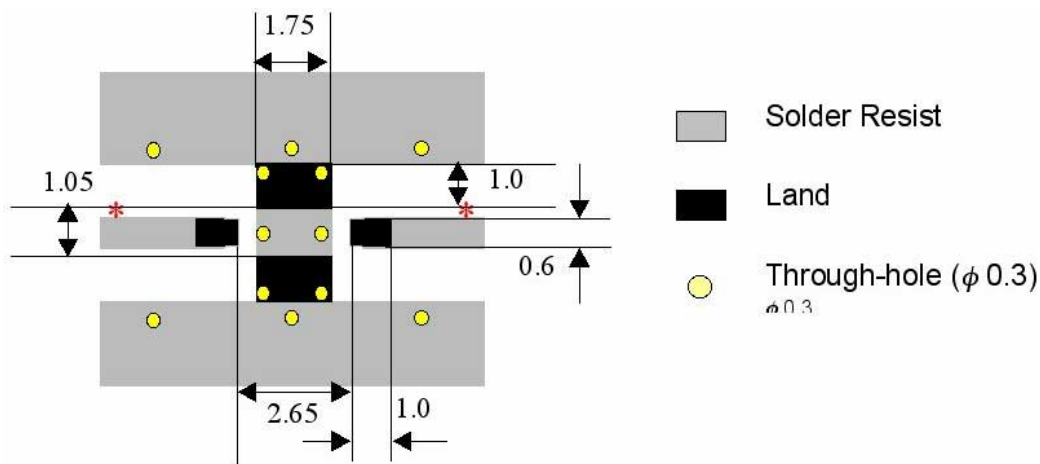
| No. | Function | No. | Function |
|-----|----------|-----|----------|
| 1   | GND      | 3   | GND      |
| 2   | OUT      | 4   | IN       |



### Mounting Considerations

Mount device with brown mark facing up. Line width should be designed to provide 50 $\Omega$  impedance matching characteristics.

Units: mm



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