

# "High Frequency Ceramic Solutions"

**2450 / 5400 MHz Diplexer ( LPF / BPF)**

**P/N 2450DP15D5400**

Detail Specification: 08/25/04

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## General Specifications

|                                      |                                  |                            |                              |                                |
|--------------------------------------|----------------------------------|----------------------------|------------------------------|--------------------------------|
| <b>Part Number</b>                   | 2450DP15D5400                    |                            |                              |                                |
| <b>Attenuation in Low Band Path</b>  | * 0.70 dB max. @ 2.4 ~ 2.5 GHz   | 20 dB min. @ 4.8 ~ 6.0 GHz | 20 dB min. @ 7.2 ~ 7.5 GHz   | 24 dB typical @ 9.6 ~ 10.0 GHz |
| <b>Attenuation in High Band Path</b> | * 1.40 dB max. @ 4.9 ~ 5.875 GHz | 19 dB min. @ 1.8 ~ 2.5 GHz | 25 dB min. @ 10.3 ~ 10.7 GHz | 30 dB typical @ 9.8 ~ 11.7 GHz |

|  |             |
|--|-------------|
| <b>Pass-band Return Loss In Both Bands</b> | 9.5 dB min. |
|--|-------------|

\* Note: The I.L. parameters are based on probed & TRL cal'd measurement

|                       |              |
|-----------------------|--------------|
| <b>Input Power</b>    | 3 Watts max. |
| <b>Impedance</b>      | 50 Ω         |
| <b>Operating Temp</b> | -40 to +85°C |
| <b>Storage Temp</b>   | -40 to +85°C |
| <b>Reel Quantity</b>  | 4000         |

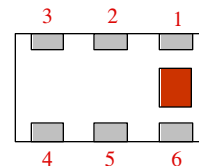
## Mechanical Dimensions

|          | In                 | mm             |
|----------|--------------------|----------------|
| <b>L</b> | 0.079 ± 0.004      | 2.00 ± 0.10    |
| <b>W</b> | 0.049 ± 0.004      | 1.25 ± 0.10    |
| <b>T</b> | 0.035 ± 0.004      | 0.90 ± 0.10    |
| <b>a</b> | 0.012 ± 0.004      | 0.30 ± 0.10    |
| <b>b</b> | 0.008 ± 0.004      | 0.20 ± 0.10    |
| <b>c</b> | 0.012 +.004/-0.008 | 0.30 +0.1/-0.2 |
| <b>g</b> | 0.014 ± 0.004      | 0.35 ± 0.10    |
| <b>p</b> | 0.026 ± 0.002      | 0.65 ± 0.05    |

Unit : mm

## Terminal Configuration

| No. | Function               |
|-----|------------------------|
| 1   | Lower Freq. Port (P1)  |
| 2   | GND                    |
| 3   | Higher Freq. Port (P3) |
| 4   | GND                    |
| 5   | Common Port (P2)       |
| 6   | GND                    |

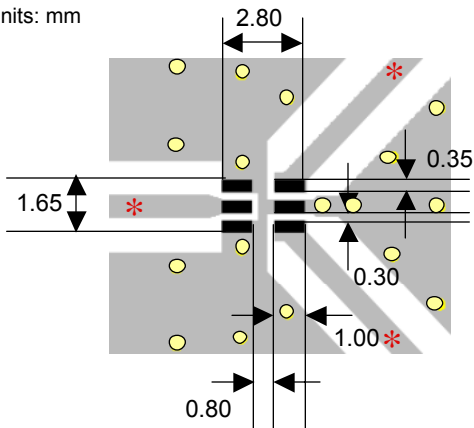


## Mounting Considerations

Mount these devices with brown mark facing up.

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

Units: mm



- Solder Resist
- Land
- Through-hole (φ0.3)

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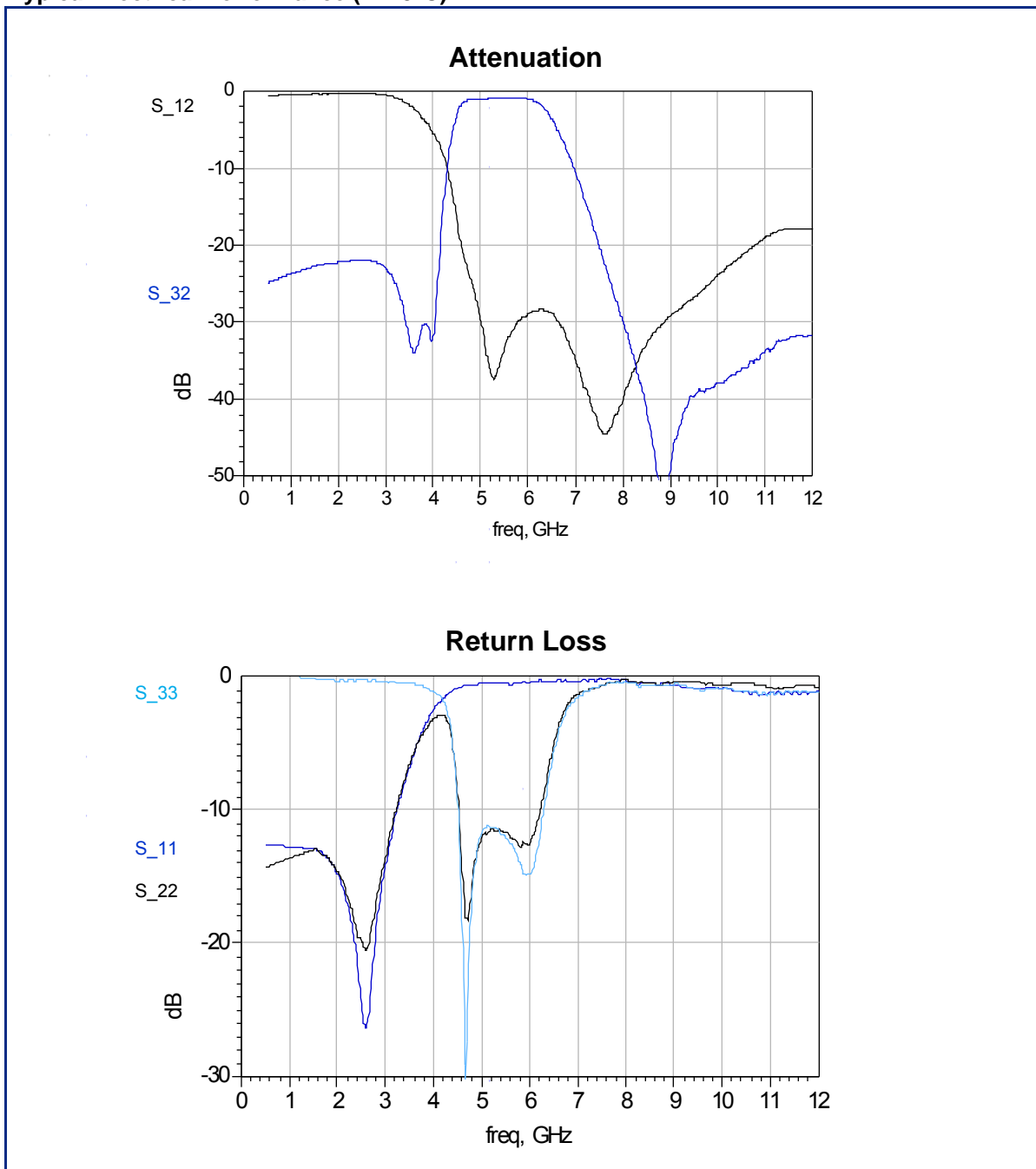
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## Typical Electrical Performance (T=25°C)



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