

"High Frequency Ceramic Solutions"

2450 / 5400 MHz Diplexer (LPF / BPF)

P/N 2450DP15D5400

Detail Specification: 08/25/04

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General Specifications

| | | | | |
|--------------------------------------|----------------------------------|----------------------------|------------------------------|--------------------------------|
| Part Number | 2450DP15D5400 | | | |
| Attenuation in Low Band Path | * 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 |
| Attenuation in High Band Path | * 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 |

| | |
|--|-------------|
| Pass-band Return Loss In Both Bands | 9.5 dB min. |
|--|-------------|

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

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

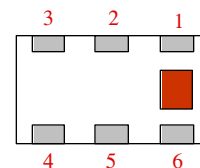
Mechanical Dimensions

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

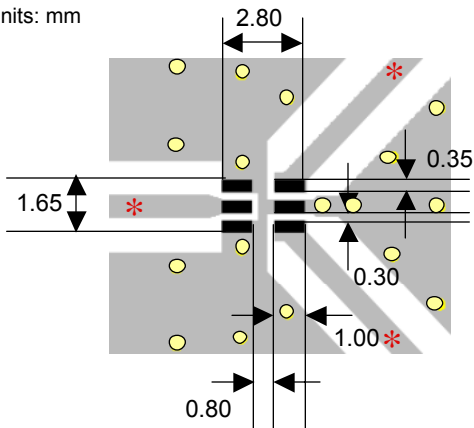


Mounting Considerations

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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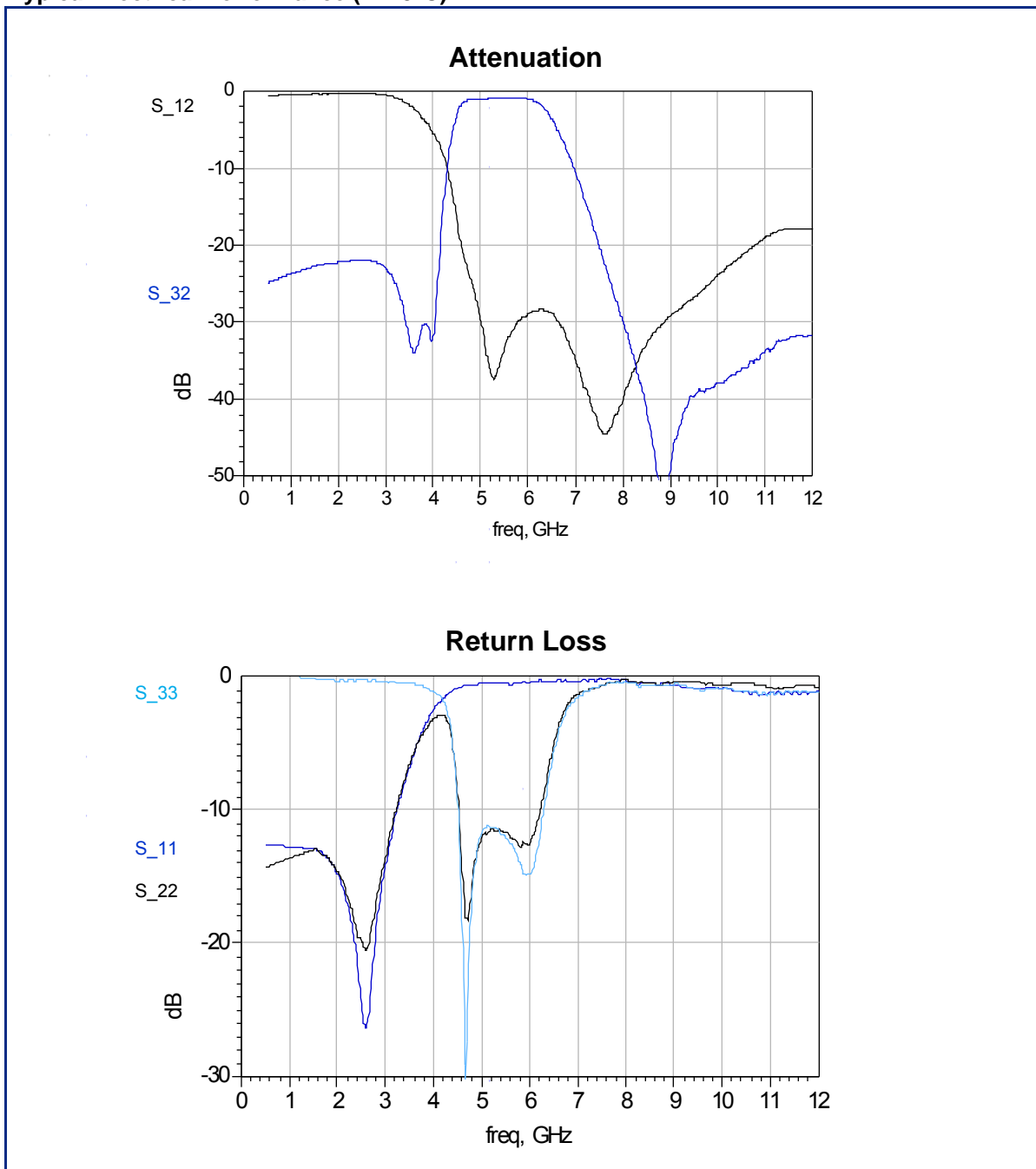
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Typical Electrical Performance (T=25°C)



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