

Description: 1608 2.3G-2.7GHz Low Pass Filter

PART NUMBER: LPF1608LL52R2500A

Features:

- Compact size : 1.6x0.8x0.6mm
- RoHS compliant

Applications:

- WLAN, 802.11a/b/g/n
- Wimax
- LTE

ELECTRICAL SPECIFICATIONS

| DESCRIPTION | Value |
|-----------------------|--|
| Pass Band | 2300~2700 MHz |
| Impedance | 50Ω |
| Insertion Loss | 0.6dB (Max) at 25°C 1.25 dB (Max.) at -40 ~ 85°C |
| V.S.W.R | 1.5(Max) |
| Attenuation | 35dB (Min). @4800~5390 MHz 25dB (Min). @7200~8085 MHz |
| Operating Temperature | -40 ~ 85°C |

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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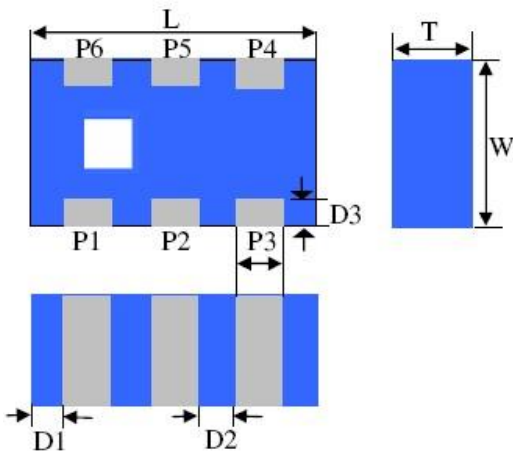
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MECHANICAL DIMENSION

Outline



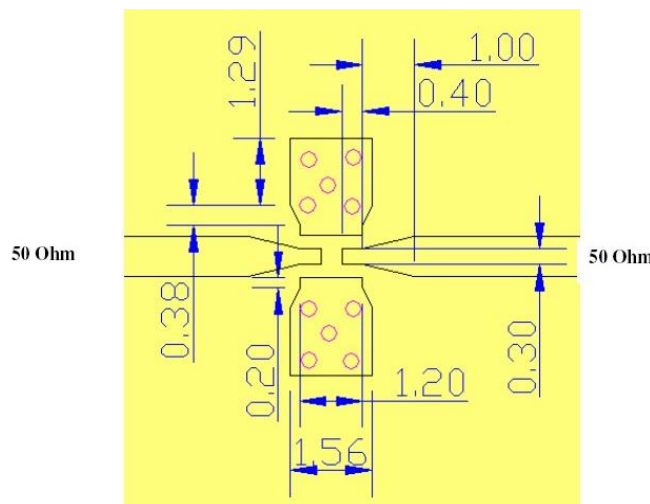
Termination

| Terminal name | function |
|---------------|----------|
| P1 | GND |
| P2 | In/Out |
| P3 | GND |
| P4 | GND |
| P5 | In/Out |
| P6 | GND |

Mechanical

| | Dimension |
|---------|------------|
| L (mm) | 1.60 ±0.15 |
| W (mm) | 0.80 ±0.15 |
| T (mm) | 0.65 ±0.15 |
| P1 (mm) | 0.30 ±0.15 |
| P2 (mm) | 0.30 ±0.15 |
| P3 (mm) | 0.30 ±0.15 |
| P4 (mm) | 0.30 ±0.15 |
| P5 (mm) | 0.30 ±0.15 |
| P6 (mm) | 0.30 ±0.15 |
| D1 (mm) | 0.10 ±0.05 |
| D2 (mm) | 0.25 ±0.15 |
| D3 (mm) | 0.2 ±0.15 |

Reference design of EVB

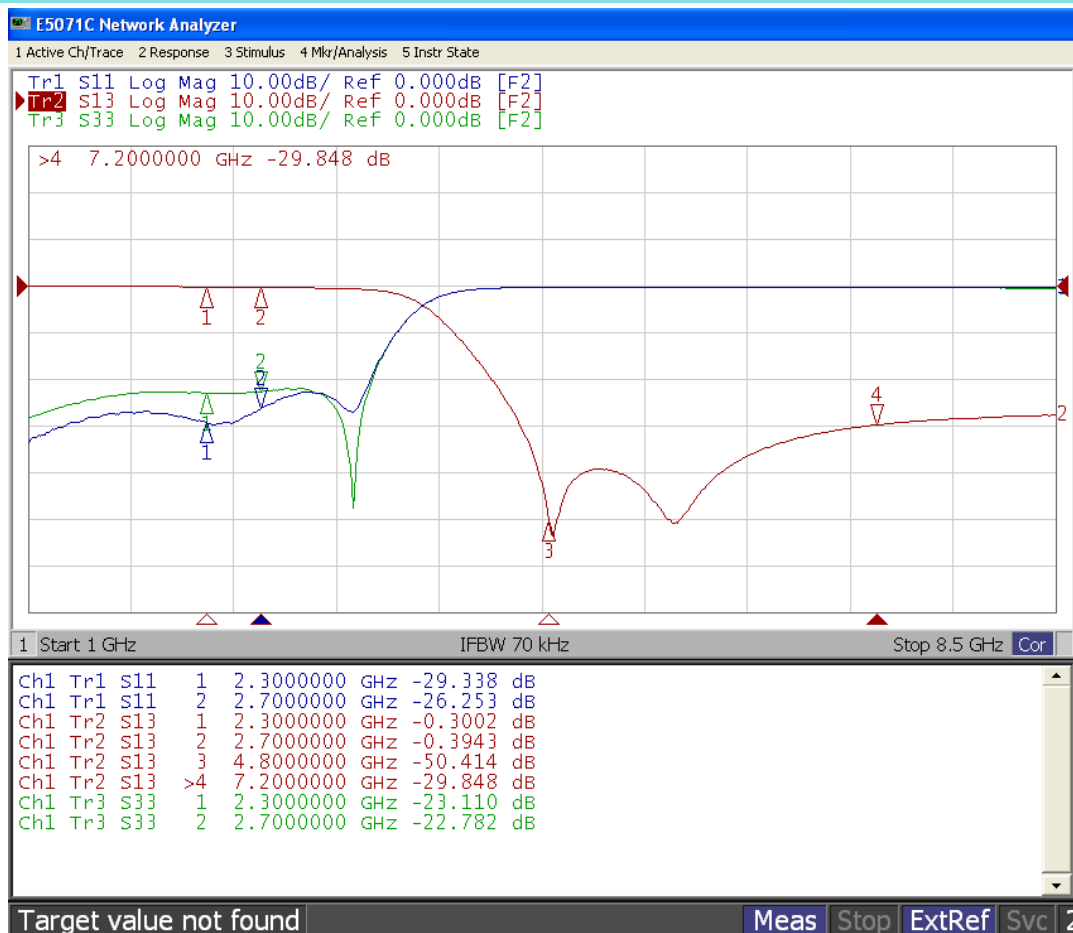


Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer
- Input port : Port 1 (Return loss : S11)
- Output port : Port 3 (Return loss : S33)
- Insertion loss : S31

Frequency Characteristics

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REVISION HISTORY

| Revision | Date | Description |
|-----------|---------------|-------------|
| Version 1 | Oct. 06, 2020 | - New issue |

Mouser Electronics

Authorized Distributor

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