

Description: 1005 1.710G-2.025GHz Low Pass Filter

PART NUMBER: LPF1005LM58R1880A

Features:

- Compact size : 1.0x0.5x0.4mm
- RoHS compliant

Applications:

- LTE(0.7-2.7GHz)

ELECTRICAL SPECIFICATIONS

| DESCRIPTION | Value |
|-----------------------|--|
| Pass Band | 1710-2025 MHz |
| Impedance | 50Ω |
| Insertion Loss | 0.6 dB (Max.) at 1710 ~ 1910 MHz 0.65 dB (Max.) at 1910 ~ 2025 MHz |
| V.S.W.R | 1.7 (Max) |
| Attenuation | 22 dB Min@ 3420 ~ 3820 MHz 25 dB Min@ 3820 ~ 4050 MHz 25 dB Min@ 5130 ~ 6075 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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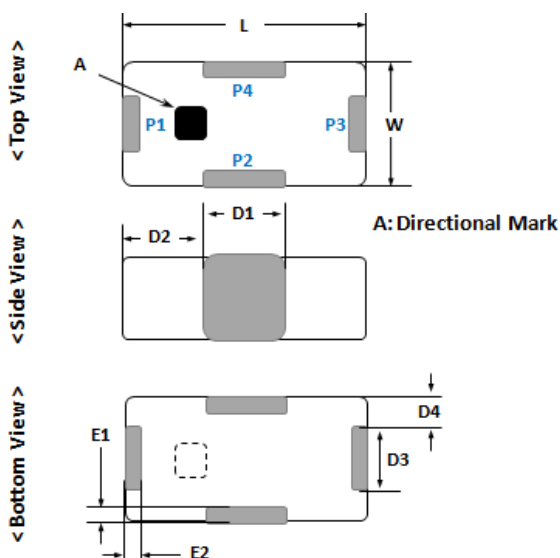
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MECHANICAL DIMENSION

Outline



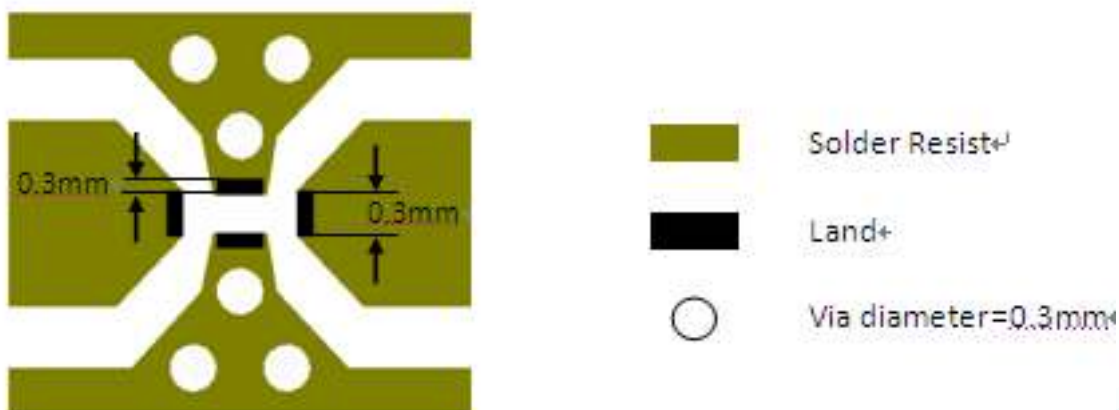
Termination

| Terminal name | function |
|---------------|----------|
| (1) | In/Out |
| (2) | GND |
| (3) | In/Out |
| (4) | NC |

Mechanical

| | Dimension |
|---------|-----------|
| L (mm) | 1.00±0.15 |
| W (mm) | 0.50±0.15 |
| T (mm) | 0.35±0.10 |
| D1 (mm) | 0.30±0.10 |
| D2 (mm) | 0.35±0.10 |
| D3 (mm) | 0.30±0.10 |
| D4 (mm) | 0.10±0.10 |
| E1 (mm) | 0.15±0.10 |
| E2 (mm) | 0.15±0.10 |

Reference design of EVB



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

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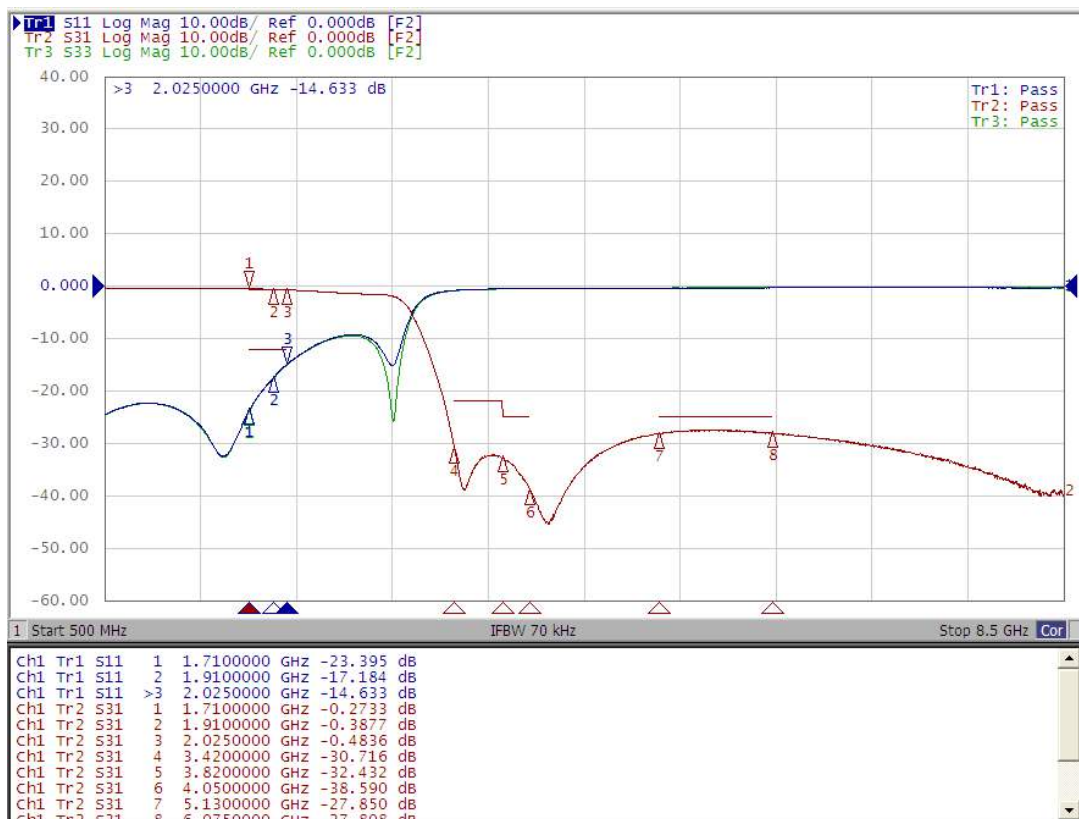
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ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer
- Input port : Port 1 (Return loss : S11)
- Output port : Port 2 (Return loss : S33)
- Insertion loss : S31

Frequency Characteristics

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REVISION HISTORY

| Revision | Date | Description |
|-----------|---------------|-------------|
| Version 1 | Oct. 07, 2020 | - New issue |