

**Description: 1005 0.7G-0.9GHz Low Pass Filter**
**PART NUMBER: LPF1005LM55R0709A**
**Features:**

- Compact size : 1.0x0.5x0.35mm
- RoHS compliant

**Applications:**

- LTE(0.7-2.7GHz)

**ELECTRICAL SPECIFICATIONS**

| DESCRIPTION           | Value  |
|-----------------------|--|
| Pass Band             | 698~960 MHz  |
| Impedance             | 50Ω  |
| Insertion Loss        | 0.7dB (Max) at 25°C  |
| V.S.W.R/ Return Loss  | 2.0(Max) / 10 dB (Min.)  |
| Attenuation           | 13dB (Min). @1554~1610 MHz<br>35dB (Min). @1805~1830 MHz<br>35dB (Min). @2110~2170 MHz<br>30dB (Min). @1710~2700 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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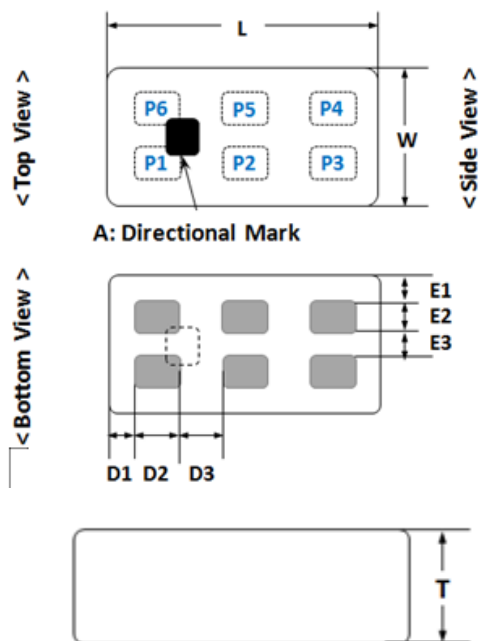


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## MECHANICAL DIMENSION

### Outline



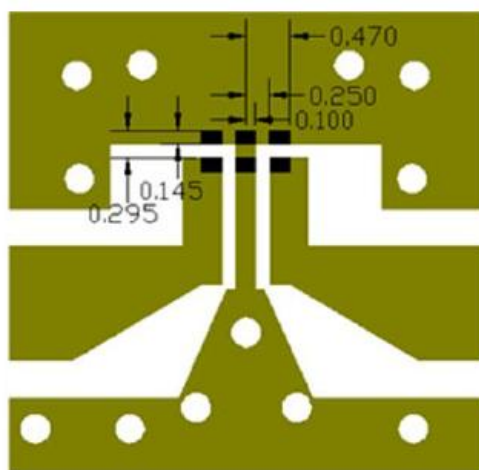
### Termination

| Terminal name | Function |
|---------------|----------|
| (1)           | NC       |
| (2)           | GND      |
| (3)           | NC       |
| (4)           | In/Out   |
| (5)           | GND      |
| (6)           | Out/In   |

### Mechanical

|         | Dimension   |
|---------|-------------|
| L (mm)  | 1.000 ±0.15 |
| W (mm)  | 0.500 ±0.15 |
| T (mm)  | 0.350 ±0.10 |
| D1 (mm) | 0.050 ±0.05 |
| D2 (mm) | 0.180 ±0.10 |
| D3 (mm) | 0.180 ±0.10 |
| E1 (mm) | 0.050 ±0.05 |
| E2 (mm) | 0.125 ±0.10 |
| E3 (mm) | 0.150 ±0.10 |

## Reference design of EVB



- Solder resist
- Land
- Via diameter 300um

Unit : mm

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

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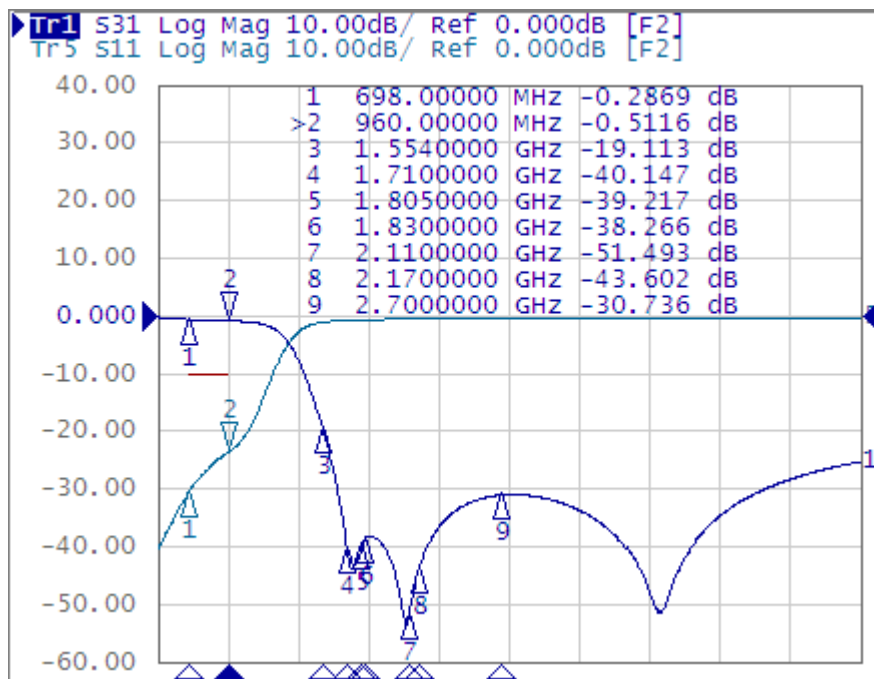
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## ELECTRICAL PERFORMANCES



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

Frequency Characteristics

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## REVISION HISTORY

| Revision  | Date          | Description |
|-----------|---------------|-------------|
| Version 1 | Dec. 31, 2020 | - New issue |

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