

**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
<b>Pass Band</b>	698~960 MHz
<b>Impedance</b>	50Ω
<b>Insertion Loss</b>	0.7dB (Max) at 25°C
<b>V.S.W.R/ Return Loss</b>	2.0(Max) / 10 dB (Min.)
<b>Attenuation</b>	13dB (Min).@1554~1610 MHz 35dB (Min).@1805~1830 MHz 35dB (Min).@2110~2170 MHz 30dB (Min).@1710~2700 MHz
<b>Operating Temperature</b>	-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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For more information:

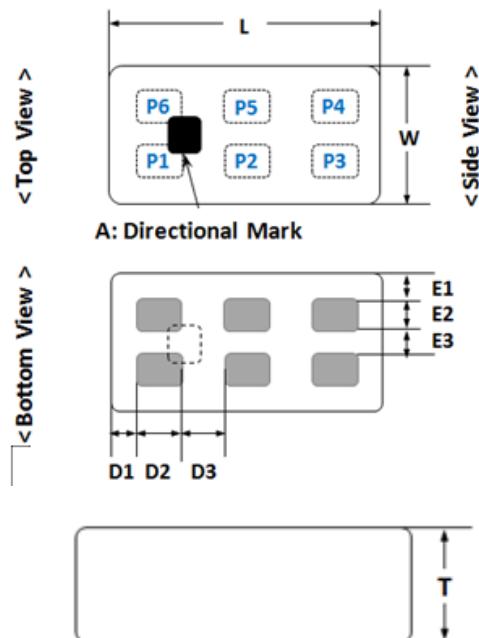


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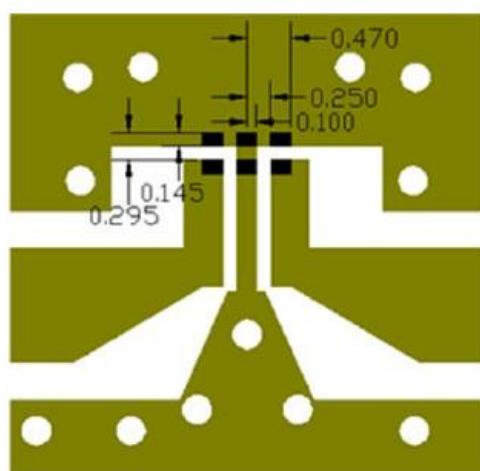
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**Description: 1005 0.7G-0.9GHz Low Pass Filter**
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**MECHANICAL DIMENSION**
**Outline**

**Termination**

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

**Mechanical**

	Dimension
L (mm)	1.000 $\pm$ 0.15
W (mm)	0.500 $\pm$ 0.15
T (mm)	0.350 $\pm$ 0.10
D1 (mm)	0.050 $\pm$ 0.05
D2 (mm)	0.180 $\pm$ 0.10
D3 (mm)	0.180 $\pm$ 0.10
E1 (mm)	0.050 $\pm$ 0.05
E2 (mm)	0.125 $\pm$ 0.10
E3 (mm)	0.150 $\pm$ 0.10

**Reference design of EVB**


Unit : mm

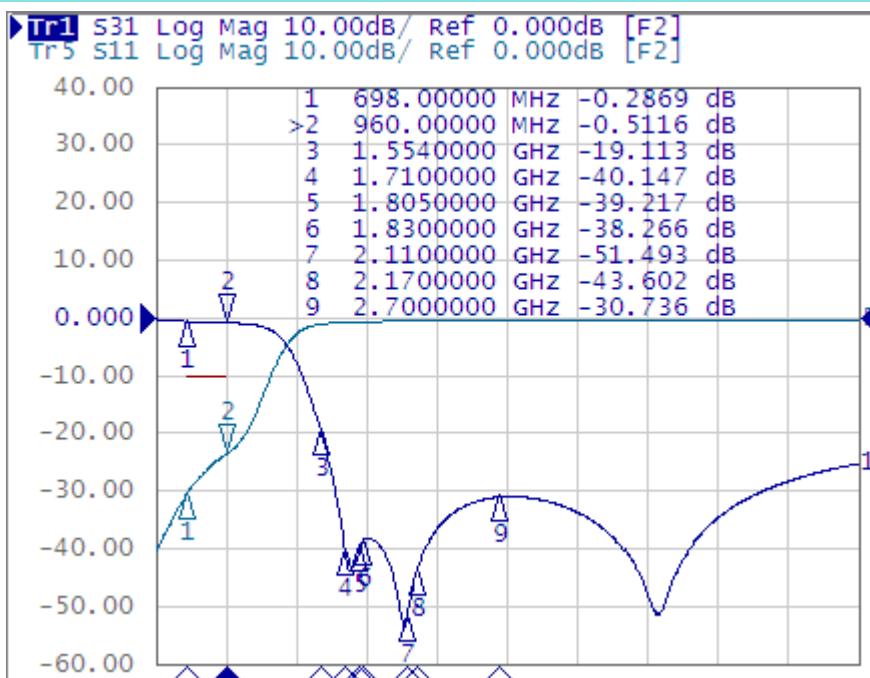
Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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

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

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