

**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 35dB (Min). @1805~1830 MHz 35dB (Min). @2110~2170 MHz 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.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

For more information:



Pulse Worldwide Headquarters  
15255 Innovation Drive #100  
San Diego, CA 92128  
USA  
Tel:1-858-674-8100

Pulse/Larsen Antennas  
18110 SE 34<sup>th</sup> St Bldg 2 Suite 250  
Vancouver, WA 98683  
USA  
Tel: 1-360-944-7551

Europe Headquarters  
Pulse GmbH & Do, KG  
Zeppelinstrasse 15  
Herrenberg, Germany  
Tel: 49 7032 7806 0

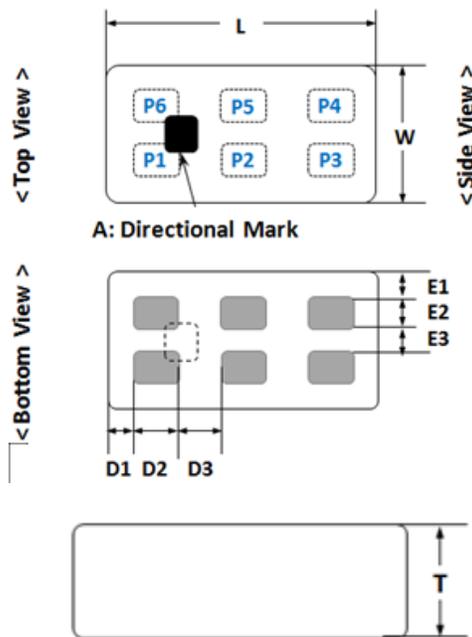
Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998

Description: 1005 0.7G-0.9GHz Low Pass Filter

PART NUMBER: LPF1005LM55R0709A

**MECHANICAL DIMENSION**

**Outline**



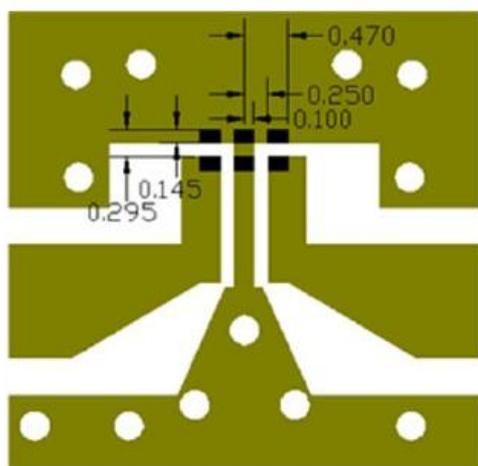
**Termination**

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.

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

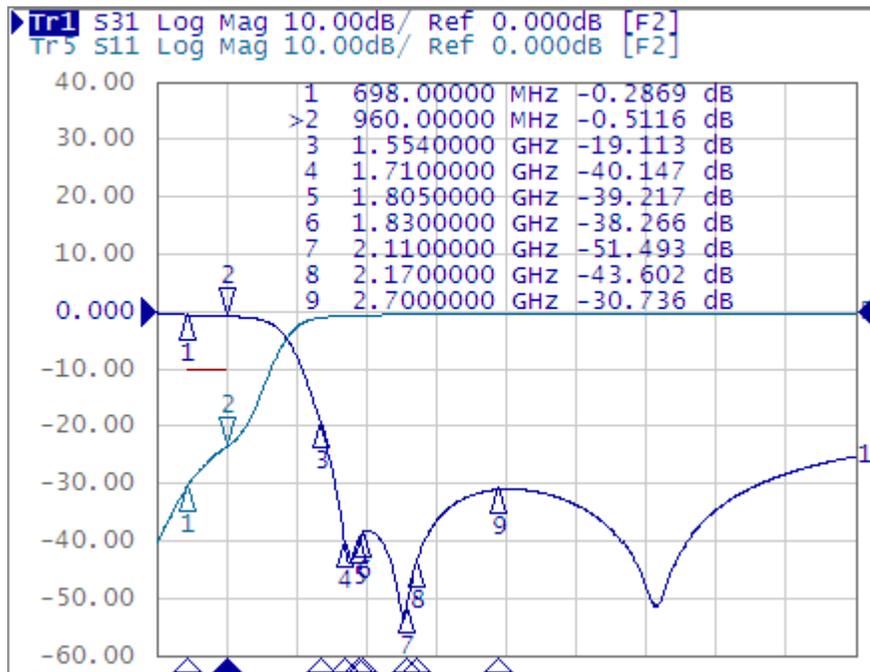
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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

**PART NUMBER:** LPF1005LM55R0709A

**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

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

**PART NUMBER:** LPF1005LM55R0709A

## REVISION HISTORY

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