Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

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℃

RoHS COMPLIANT

Pulse Worldwide Headquarters
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Pulse/Larsen Antennas
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Europe Headquarters
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Pulse (Suzhou) Wireless Products Co, Inc.
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Tel: 86 512 6807 9998

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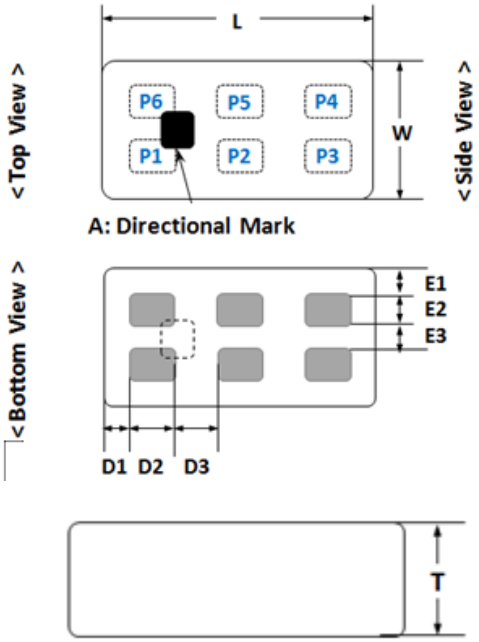
MECHANICAL DIMENSION

Outline



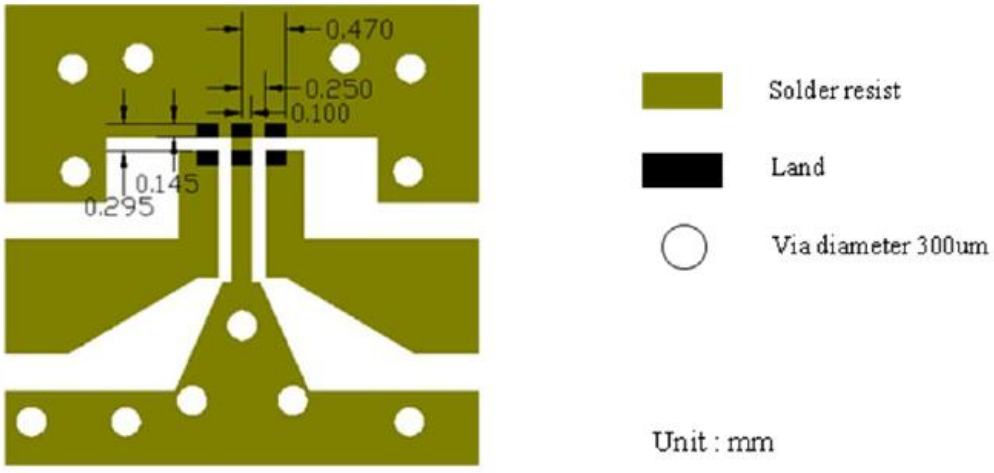
Termination

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



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

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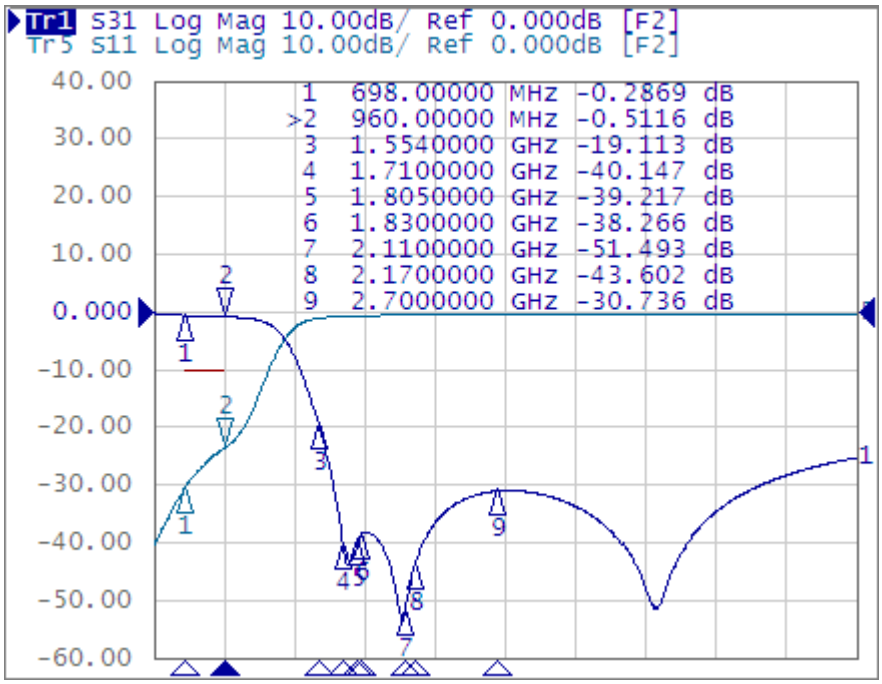
ELECTRICAL PERFORMANCES



- 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	Dec. 31, 2020	- New issue