Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1005 1.880G-2.025GHz Low Pass Filter

PART NUMBER: LPF1005LM53R1880A

Features:

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

Applications:

- LTE(0.7-2.7GHz)

ELECTRICAL SPECIFICATIONS

DESCRIPTION	Value
Pass Band	1880~2025 MHz
Impedance	50Ω
Insertion Loss	1.5dB (Max) at 25°C
V.S.W.R / Return Loss	2.0 (Max) / 10dB (Min.)
Attenuation	20dB (Min).@2400~2500 MHz 25dB (Min).@5150~5850 MHz 25dB (Min).@3760~4050 MHz 25dB (Min).@5640~6075 MHz
Operating Temperature	-40 ~ 85℃

RoHS COMPLIANT

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Tel: 86 512 6807 9998

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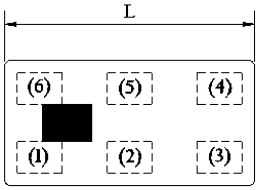
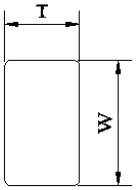
MECHANICAL DIMENSION

Outline

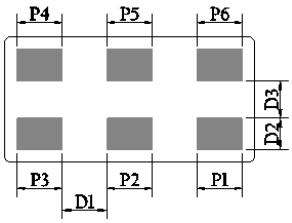
Top View



Side View



Bottom View



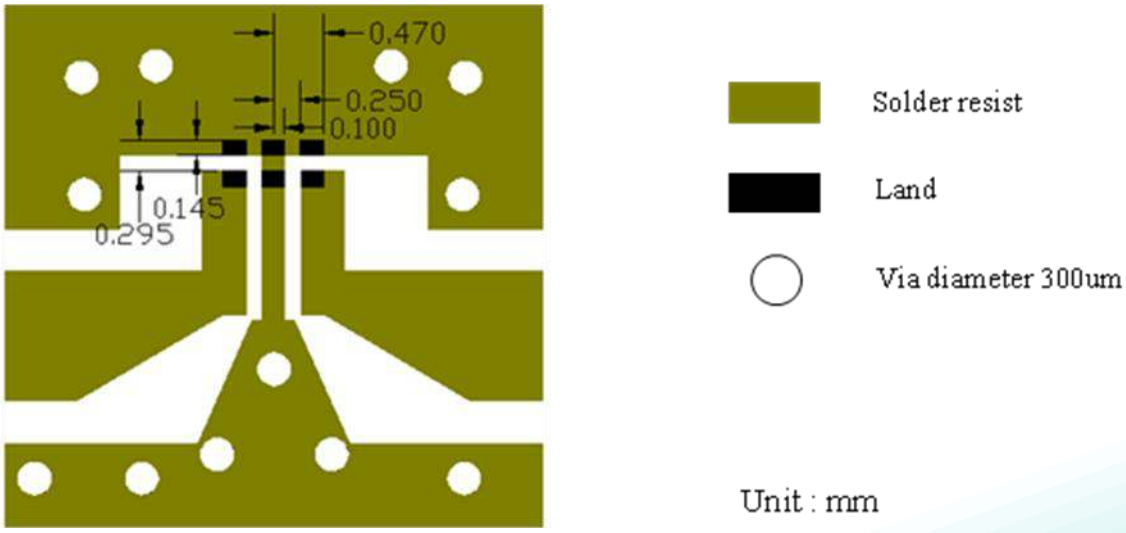
Termination

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

Mechanical

	Dimension
L (mm)	1.00±0.10
W (mm)	0.50±0.10
T (mm)	0.35±0.10
P1 (mm)	0.18±0.05
P2 (mm)	0.18±0.05
P3 (mm)	0.18±0.05
P4 (mm)	0.18±0.05
P5 (mm)	0.18±0.05
P6 (mm)	0.18±0.05
D1 (mm)	0.18±0.05
D2 (mm)	0.125±0.05
D3 (mm)	0.15±0.05

Reference design of EVB



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

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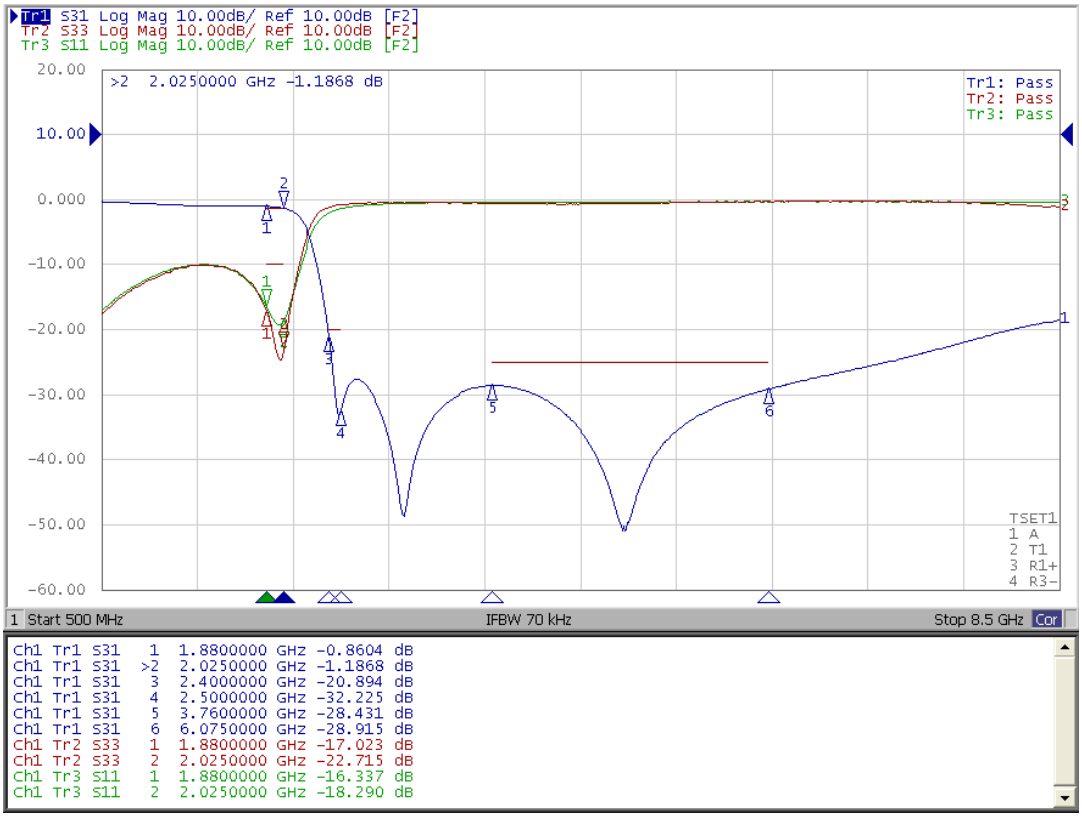
ELECTRICAL PERFORMANCES



- 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	Oct. 07, 2020	- New issue

RoHS COMPLIANT