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Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1005 2.4GHz Band Pass Filter

PART NUMBER: BPF1005LM03R2400A

Features:

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

Applications:

- WLAN, 802.11b/g/n
- ISM Band

ELECTRICAL SPECIFICATIONS

DESCRIPTION	Value
Pass Band	2400 ~ 2500 MHz
Insertion Loss	1.5 dB (Max.) at 20℃
V.S.W.R / Return Loss	2.0 (Max) / 10dB (Min.)
Attenuation	10 dB Min@ 880 ~ 960 MHz 25 dB Min@ 4800 ~ 5000 MHz 25 dB Min@ 7200 ~ 7500 MHz
Operating Temperature	-40 ~ 85℃

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

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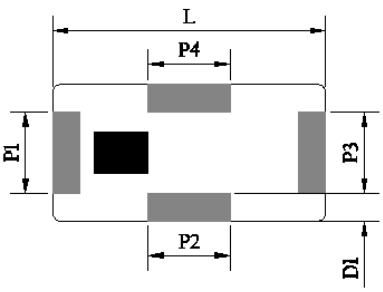
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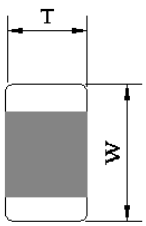
MECHANICAL DIMENSION

Outline

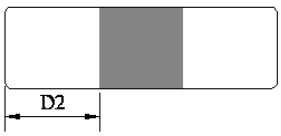
Top View



Side View



Side View



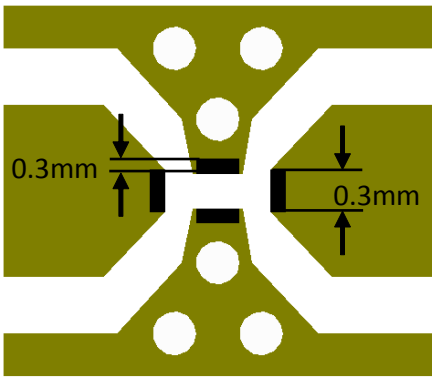
Termination

Terminal name	Function
P1	Input
P2	GND
P3	Output
P4	GND

Mechanical

	Dimension
L (mm)	1.00±0.10
W (mm)	0.50±0.10
T (mm)	0.35±0.10
P1 (mm)	0.30±0.15
P2 (mm)	0.30±0.15
P3 (mm)	0.30±0.15
P4 (mm)	0.30±0.15
D1 (mm)	0.10±0.10
D2 (mm)	0.35±0.15

Reference design of EVB



Solder Resist

Land

Via diameter=0.3mm

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

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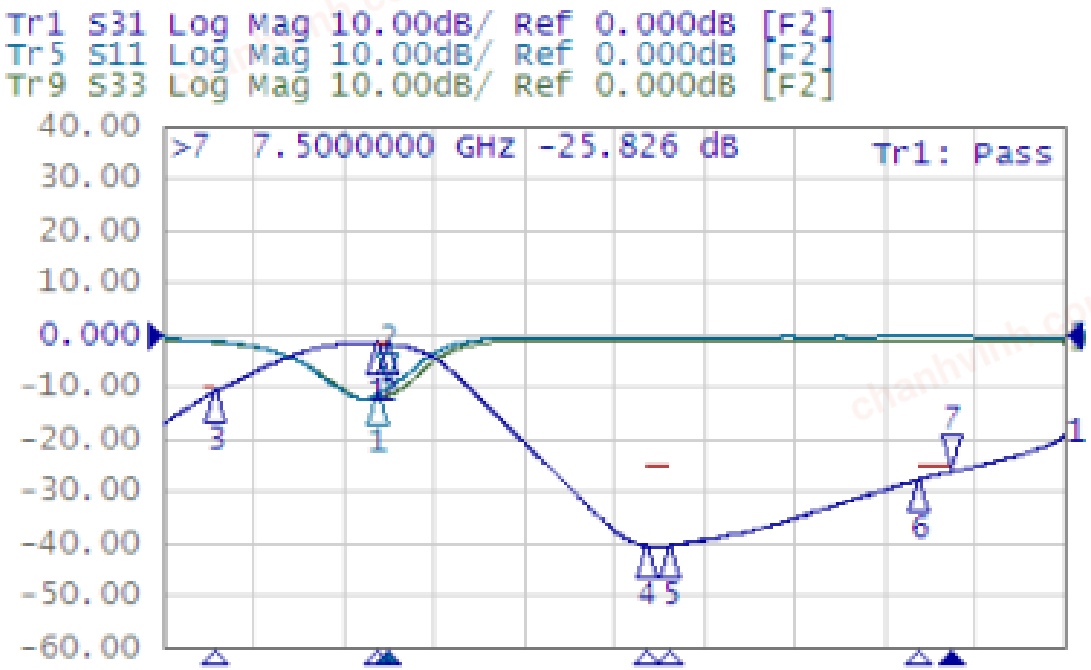
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ELECTRICAL PERFORMANCES



- 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	Oct. 07, 2020	- New issue

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