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Pulse
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1005 Band Pass Filter

PART NUMBER: BPF1005LRQRR4700A

Features:

- Compact size
- RoHS compliant & Halogen Free

Applications:

- WWAN
- 5GNR-n79

ELECTRICAL SPECIFICATIONS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	4400~5000	-	1.28	1.5
Insertion Loss (dB) at -40~85°C	4400~5000	-	-	2.0
Return Loss (dB)	4400~5000	16	22.9	-
Attenuation (dB)	600~2690	30	46.5	-
	3300~3600	15	26.3	-
	5670~5915	5	12.2	-
	5915~7125	18	27.8	-
	8800~10000	20	25.2	-
	10000~15000	10	14.2	-

Operating Temperature Range：-40~85°C
Power Capacity：3W max.

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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 34th 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,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998

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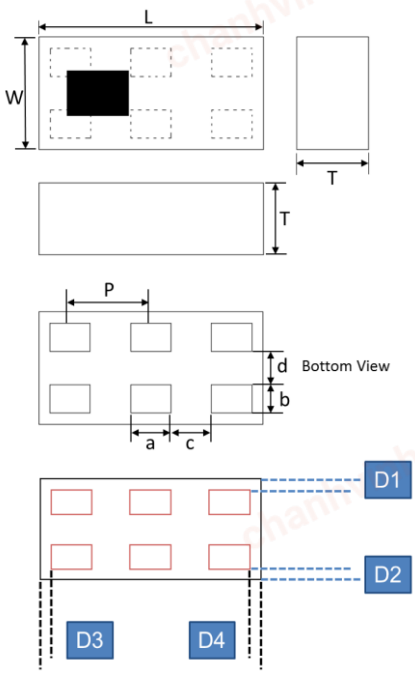
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MECHANICAL DIMENSION

Outline



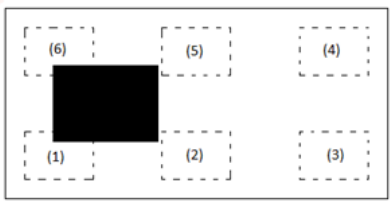
Dimension

L	W	T	a
1.00±0.05	0.50±0.05	0.38 max.	0.18±0.05
b	c	d	P
0.125±0.05	0.18±0.05	0.15±0.05	0.36±0.05
D1-D2	D3-D4		
0±0.04	0±0.04		

NOTE：Dimensions in mm.

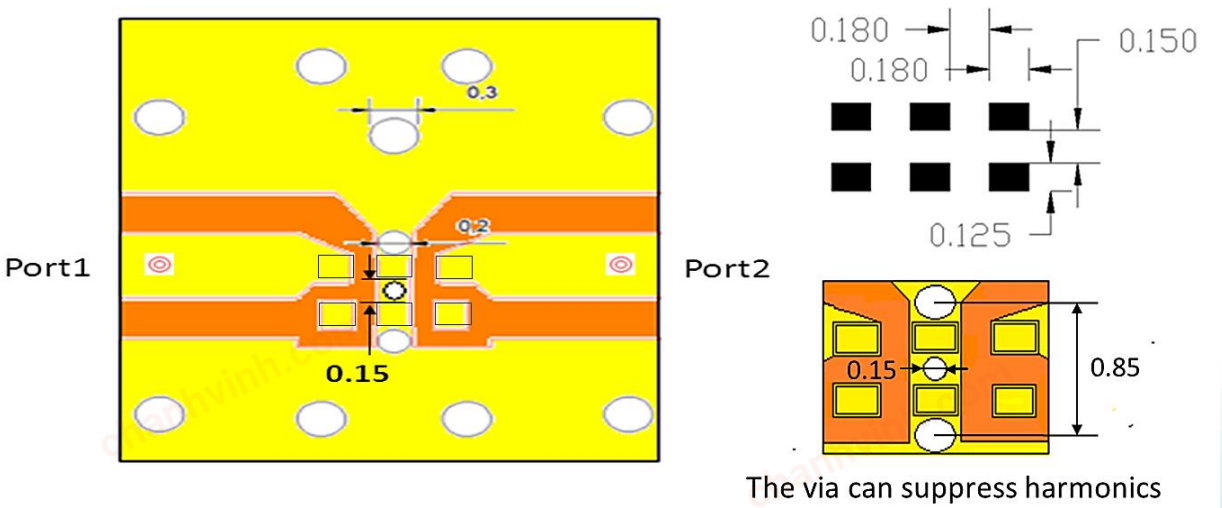
Termination

Top View



Terminal name	Function
1	Input
2	GND
3	Output
4	NC
5	GND
6	NC

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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RoHS COMPLIANT

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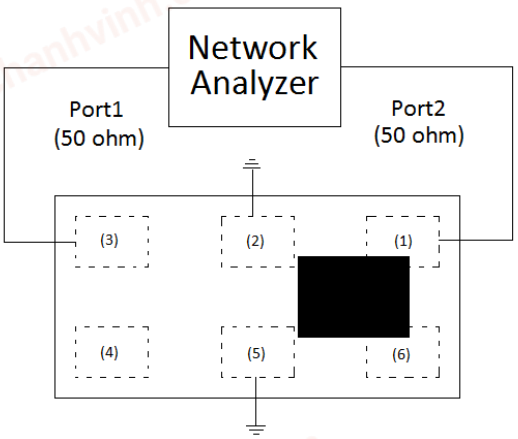
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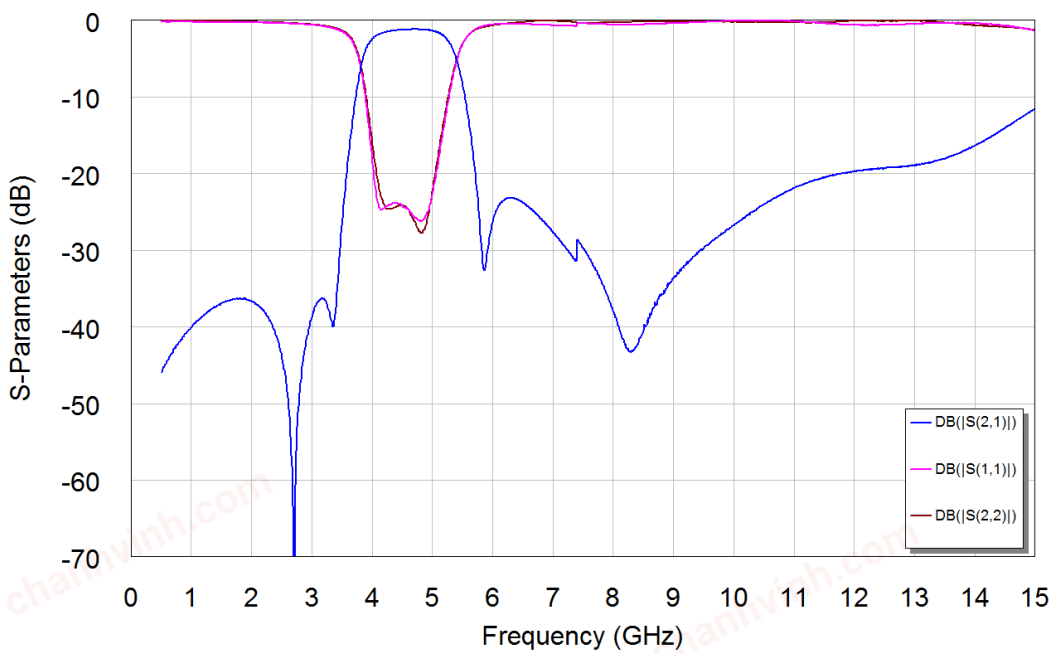
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MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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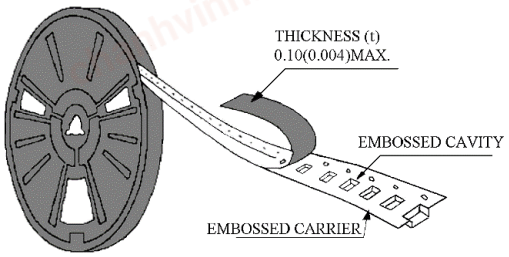
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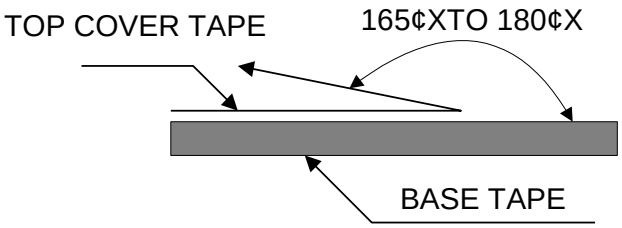
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PACKING SPECIFICATION

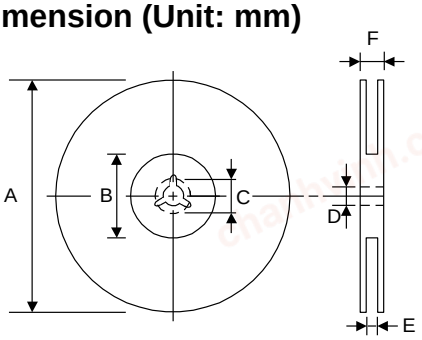
Peel-off force





The force for peeling of cover tape is 10 grams in the arrow direction.

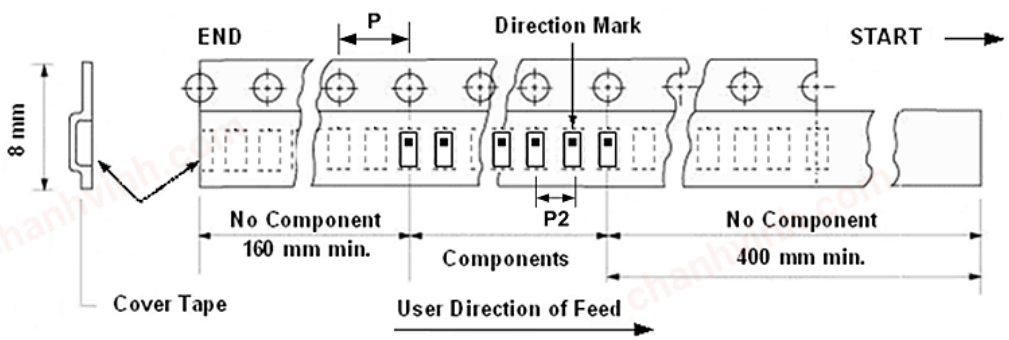
Dimension (Unit: mm)



TYPE	A	B	C	D	E	F
8 mm	178±1	60+0.5 -0	-	13±0.2	9±0.5	12±0.5
12 mm	178±0.3	60±0.2	19.3±0.1	13.5±0.1	13.6±0.1	-

Taping quantity

SERIES	5824 5724	5320 5220	4532	4516	3225	3216 2520	2012 1608	1005
PCS/Reel	5000	3000	1000	2000	2500	3000	4000	15000



P= 4 mm; P2= 2 mm

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REVISION HISTORY

Revision	Date	Description
Version 1	Aug. 02, 2022	- New issue

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