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A YAGEO Company

TECHNICAL DATA SHEET

Description: 2012 Band Pass Filter

PART NUMBER: BPF2012LKBMR6580A
(Preliminary)

Features:

- Compact size
- RoHS compliant
- AEC-Q200 Qualified

Applications:

- IEEE 802.15.4
- UWB

ELECTRICAL SPECIFICATIONS

DESCRIPTION	Value
Pass Band	6240~8240 MHz
Insertion Loss	1.86 dB(Typ.) 2.5 dB (Max.) at 25°C 2.5 dB (Max.) at -40~85°C
Return Loss	12.2dB(Typ.) 10 dB (Min.)
Attenuation	38.7 dB (Typ.) 35 dB (Min.) @ DC~5200 MHz 16.9 dB (Typ.) 15 dB (Min.) @ 5200~5860 MHz 27.8 dB (Typ.) 10 dB (Min.) @ 9000~9500 MHz 33 dB (Typ.) 30 dB (Min.) @ 9500~18000 MHz
Group delay	0.81 ns (Typ.) 3 ns (Max.) @ 6240~8240 MHz
Group delay ripple	0.44 ns (Typ.) 1 ns (Max.) @ 6240~8240 MHz
Operating Temperature	-40 ~ +125°C
Power Capacity	3W Max.

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For more information:

RoHS COMPLIANT

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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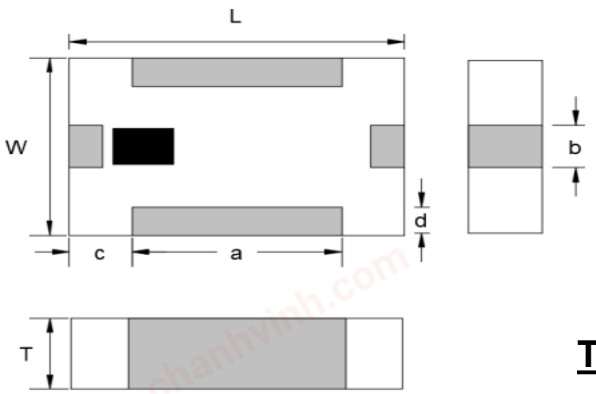
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MECHANICAL DIMENSION

Outline



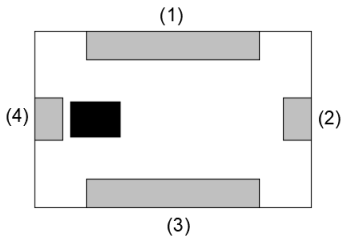
Dimension

L	W	T	a
2.00±0.15	1.25±0.10	0.95±0.10	1.25±0.15
b	v	d	
0.30±0.15	0.35±0.15	0.25±0.15	

NOTE：Dimensions in mm.

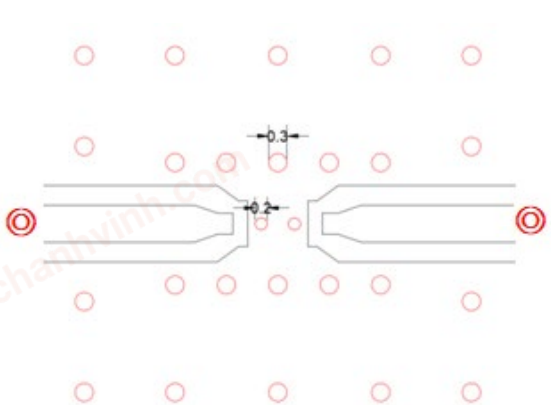
Termination

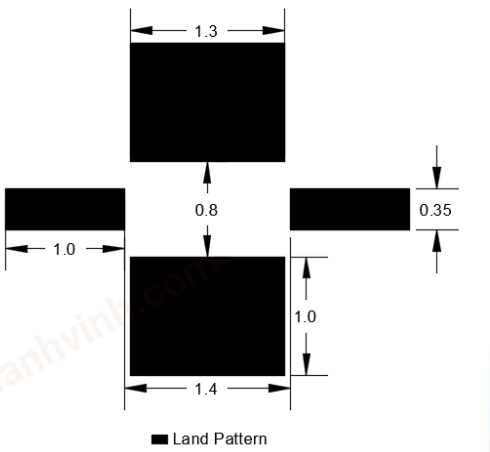
Top View



Terminal name	Function
1	GND
2	IN/OUT (not connected to GND)
3	GND
4	IN/OUT (not connected to GND)

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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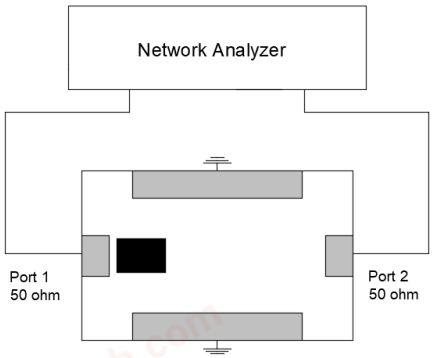
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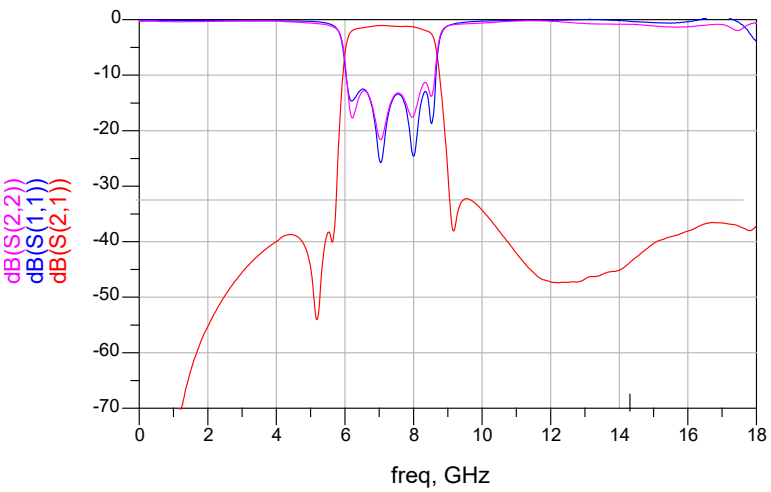
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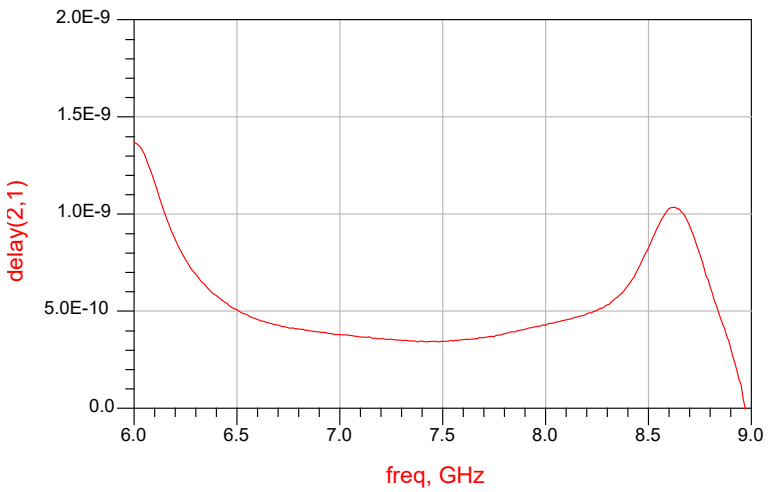
MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES





- Measured on Agilent E5071C Network Analyzer

Frequency Characteristics

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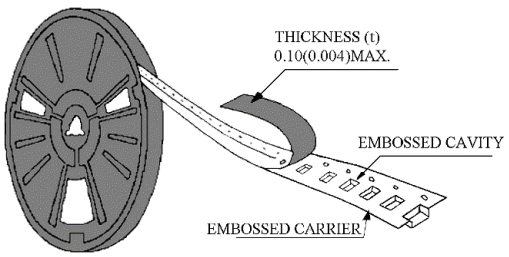
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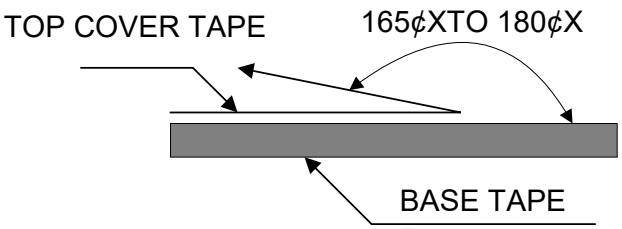
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PACKING SPECIFICATION

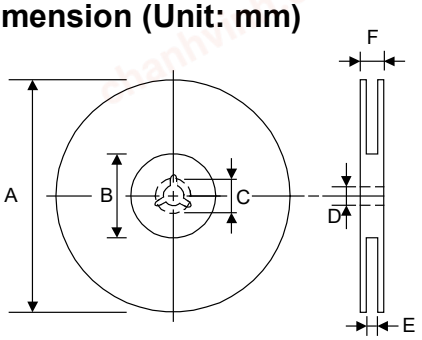
Peel-off force





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

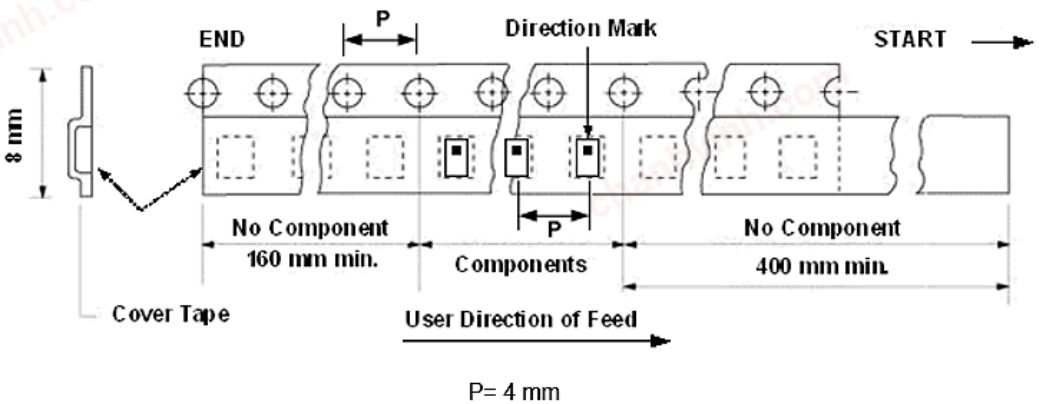
Dimension (Unit: mm)



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 0605
PCS/Reel	5000	3000	1000	2000	2500	3000	4000	10000



P= 4 mm

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REVISION HISTORY

Revision	Date	Description
Preliminary	Nov. 16, 2022	- New issue

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