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Pulse
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1005 Band Pass Filter

PART NUMBER: BPF1005LRPKR3750A

Features:

- Compact size
- RoHS compliant

Applications:

- WWAN
- 5GNR-n77

ELECTRICAL SPECIFICATIONS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	3300~3800	-	1.42	1.5
	3800~4200	-	1.07	1.5
Insertion loss (dB) at -40~85°C	3300~3800	-	-	1.7
	3800~4200	-	-	1.7
Return loss (dB)	3300~3800	16	18.39	-
	3800~4200	15	15.90	-
Attenuation (dB)	600~1970	35	44.8	-
	1980~2120	35	40.3	-
	2130~2200	35	37.6	-
	2300~2690	30	32.5	-
	5150~5850	20	23.9	-
	5850~6600	20	24.5	-
	6600~8400	20	28.7	-
	9900~13000	20	30.2	-

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

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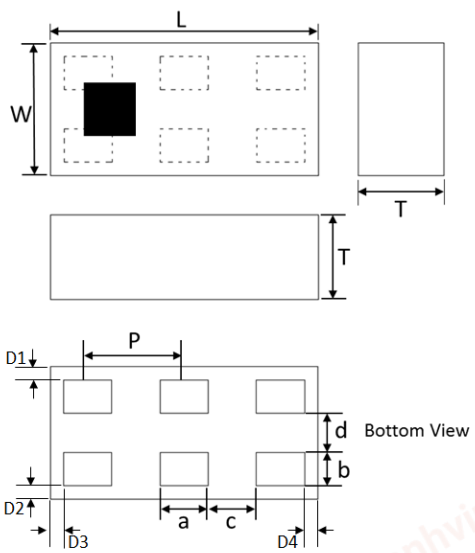
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MECHANICAL DIMENSION

Outline

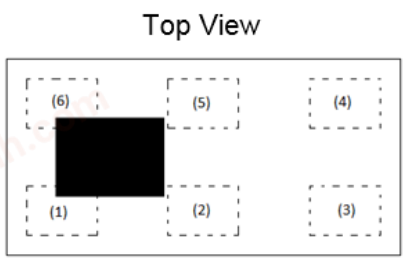


Dimension

L	W	T	a
1.00±0.05	0.50±0.05	0.42 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		

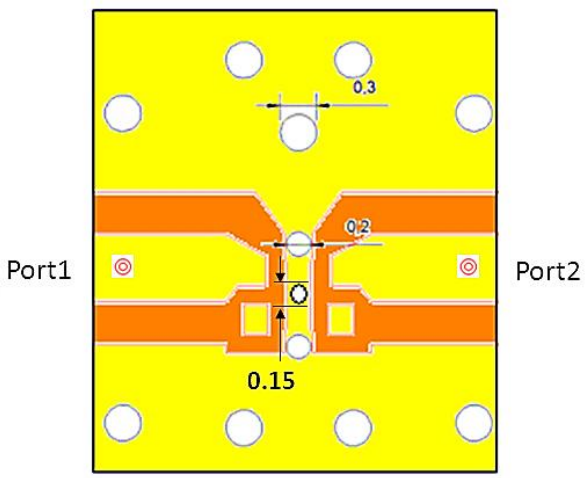
NOTE：Dimensions in mm.

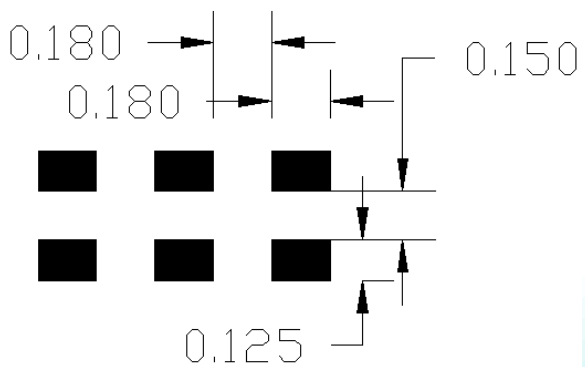
Termination



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

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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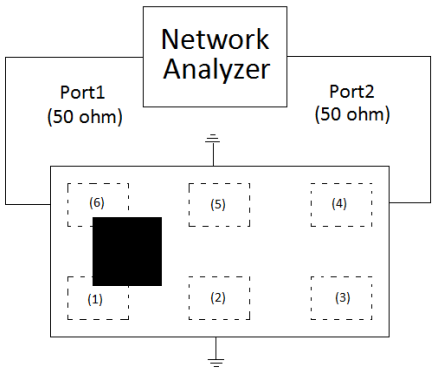
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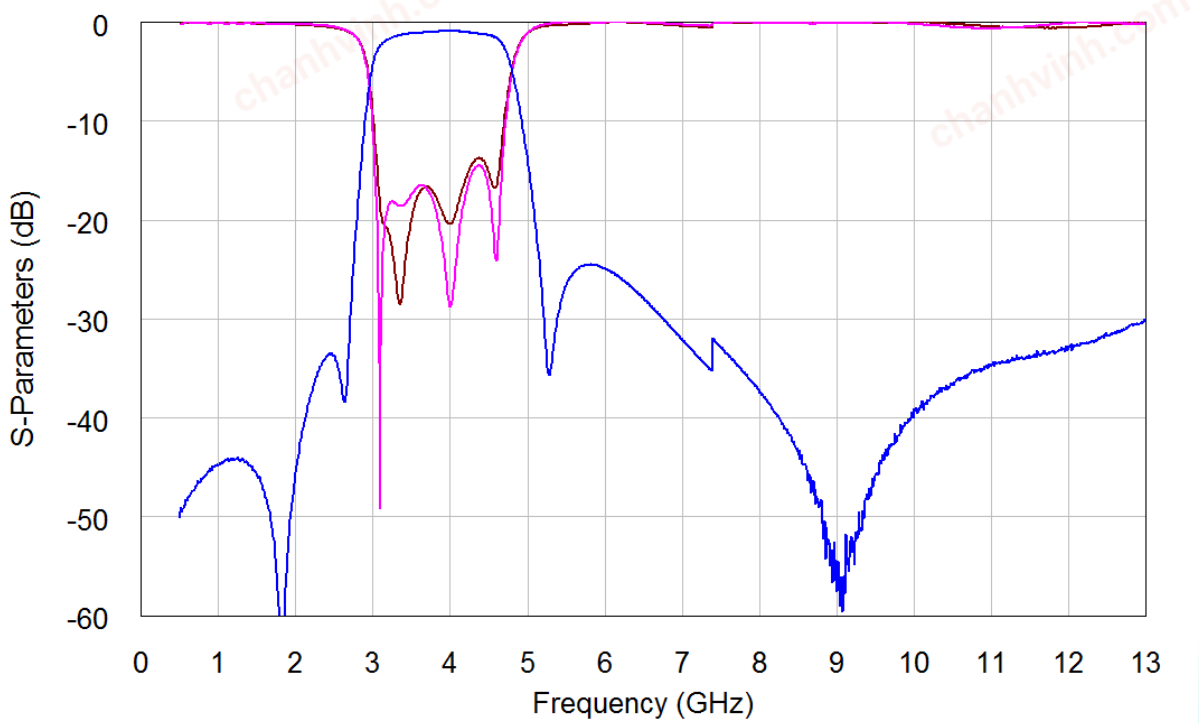
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MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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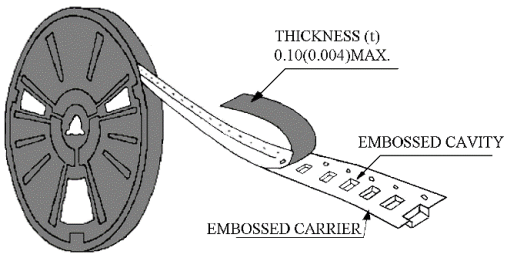
TECHNICAL DATA SHEET

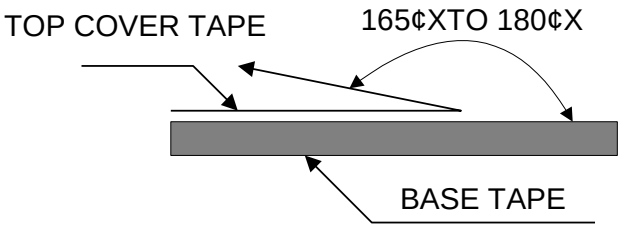
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PACKING SPECIFICATION

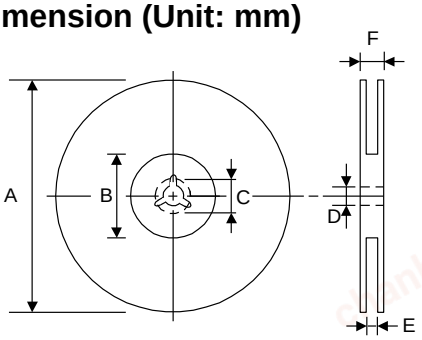
Peel-off force





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

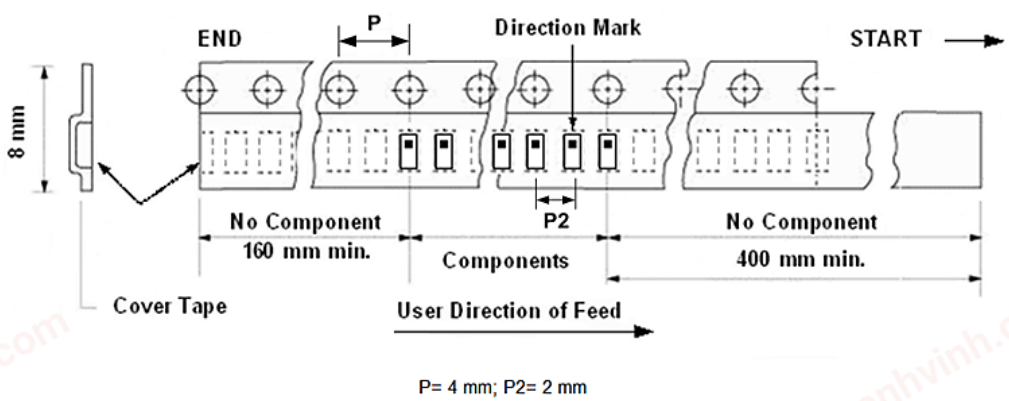
Dimension (Unit: mm)



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; P2= 2 mm

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REVISION HISTORY

Revision	Date	Description
Version 1	Dec. 27, 2022	- New issue

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