

Description: 1005 Band Pass Filter

PART NUMBER: BPF1005LRQYR3750A

Features:

- Compact size
- RoHS compliant

Applications:

- WWAN
- 5G NR-n77

ELECTRICAL SPECIFICATIONS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion loss (dB)	3300~4200	-	1.55	1.8
Insertion loss (dB) at -40~85°C	3300~4200	-	-	2.0
Return loss (dB)	3300~4200	14	16.78	-
Attenuation (dB)	600~1610	40	43.05	-
	1710~1785	38	47.95	-
	1805~2200	30	51.15	-
	2300~2620	25	35.54	-
	2620~2690	20	25.81	-
	5150~5850	20	30.25	-
	5850~6600	28	30.22	-
	6600~7600	30	34.63	-
	7600~8400	30	44.34	-
	9900~12600	20	27.53	-
	13200~18000	10(Ref.)	22.03	-

Operating Temperature Range : -40~85°C

Power Capacity : 3W max.

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

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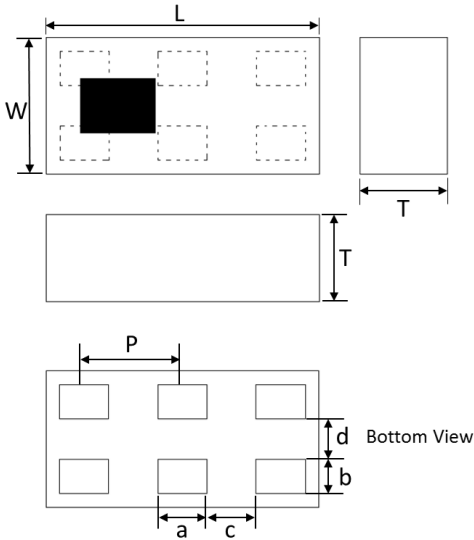


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MECHANICAL DIMENSION

Outline

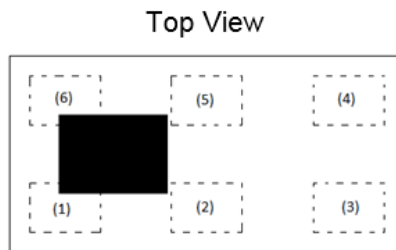


Dimension

L	W	T	a
1.00±0.05	0.50±0.05	0.30 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

NOTE : Dimensions in mm.

Termination

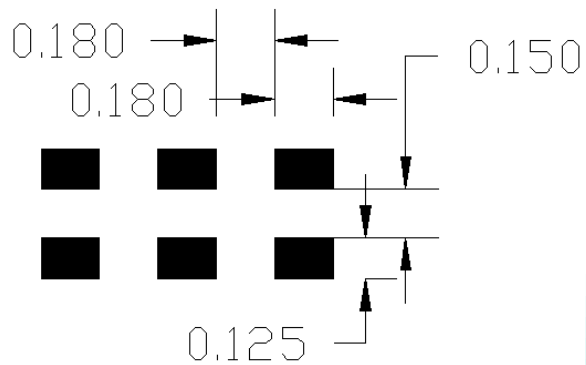
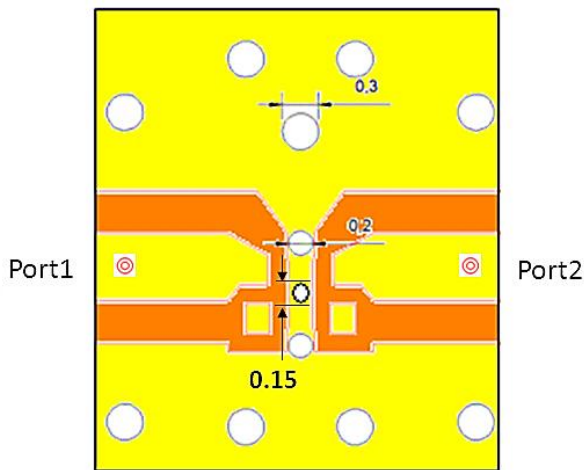


Terminal name

Function

1	Input/Output
2	GND
3	Input/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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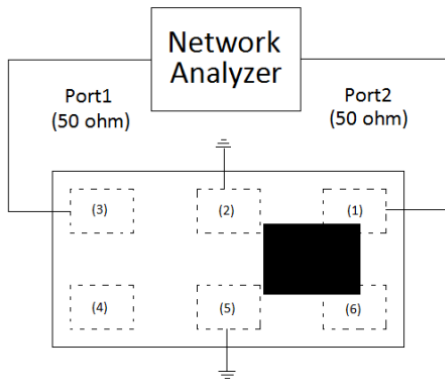
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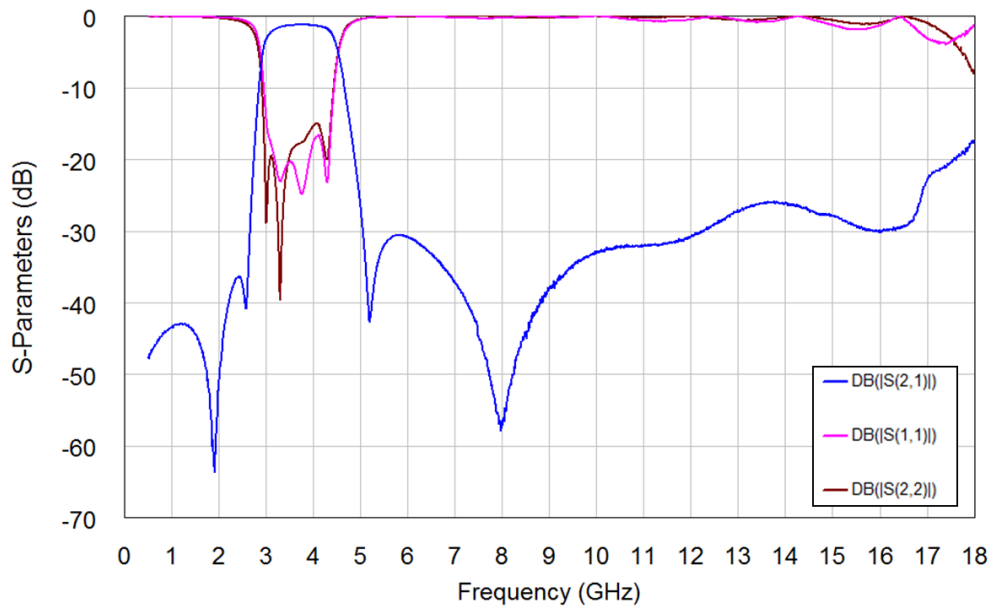
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RECOMMENDED PCB LAYOUT



Test Instrument :  
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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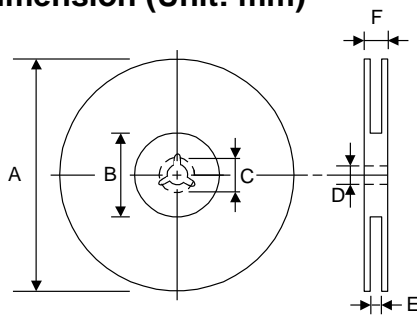
PACKING SPECIFICATION

Peel-off force



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

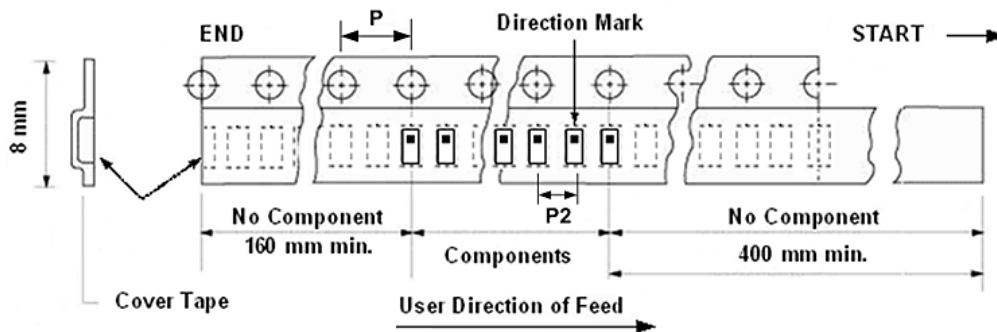
Dimension (Unit: mm)



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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**Description:** 1005 Band Pass Filter**PART NUMBER:** BPF1005LRQYR3750A**REVISION HISTORY**

Revision	Date	Description
Version 1	Feb. 13, 2023	- New issue
Version 1	Mar. 10, 2023	- Updated tolerance mark.