

Description: 2012 Band Pass Filter

PART NUMBER: BPF2012LKAMR6580A

Features:

- Compact size
- RoHS compliant
- AEC-Q200 Qualified

Applications:

- IEEE 802.15.4
- UWB group Channel 5 (6.5GHz) to Channel 9 (8GHz)

ELECTRICAL SPECIFICATIONS

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	6240~8240	-	1.55	2.5
Return Loss (dB)	6240~8240	10	14.1	-
Attenuation (dB)	DC~5200	35	36.0	-
	5200~5860	15	18.5	-
	9000~9500	10	24.0	-
	9500~18000	30	31.0	-
Group Delay (ns)	6240~8240	-	0.85	3.0
Group Delay Ripple (ns)	6240~8240	-	0.35	1.0

Operating Temperature Range : -40~125°C

Power Capacity : 3W max.

Impedance : 50ohm

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

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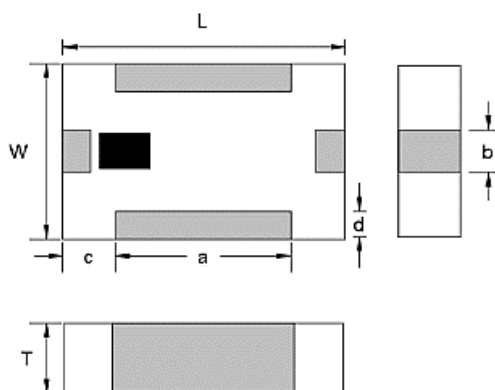


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MECHANICAL DIMENSION

Outline

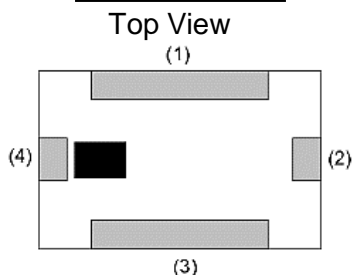


Dimension

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

NOTE : Dimensions in mm.

Termination

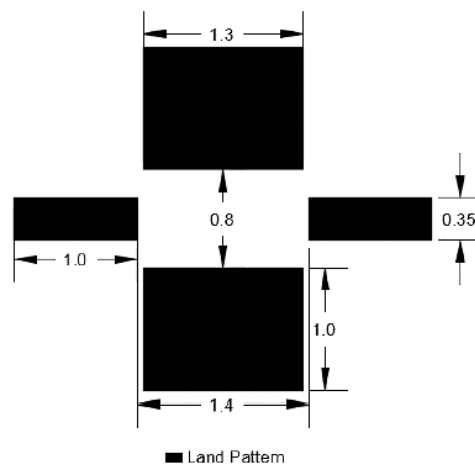
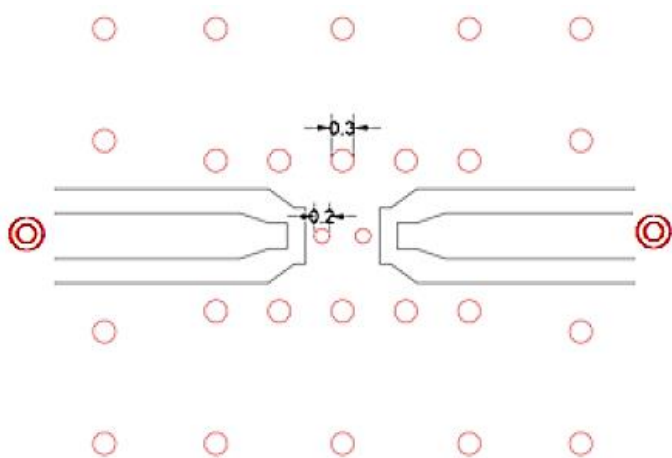


Terminal name

Function

Terminal name	Function
1	GND
2	Input / Output
3	GND
4	Input / Output

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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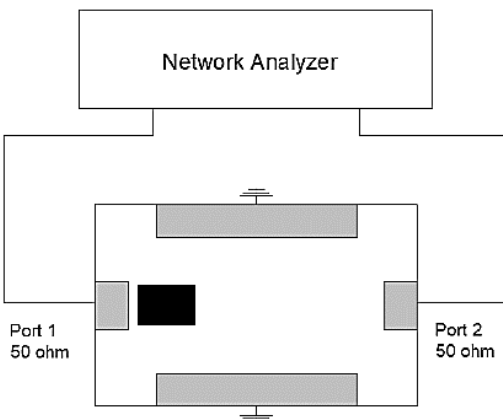
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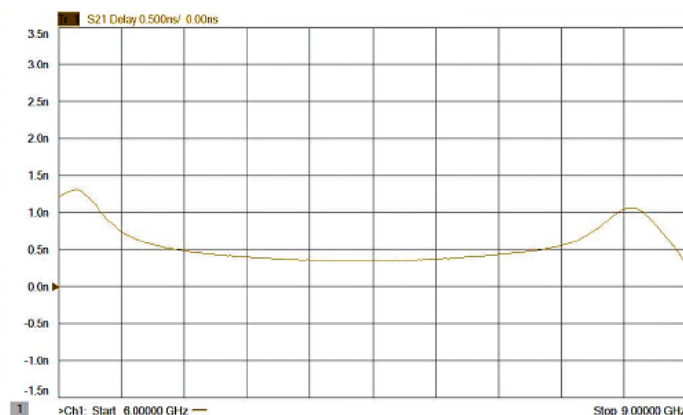
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MEASURING DIAGRAM



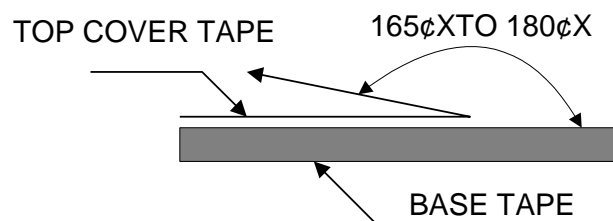
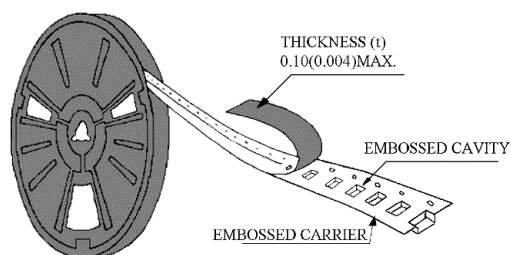
Test Instrument :
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES

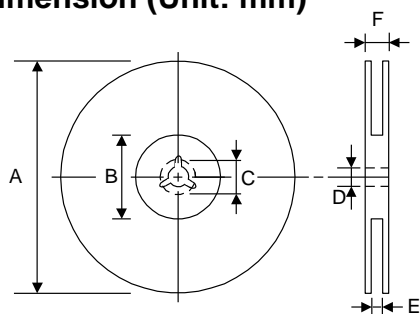


STORAGE CONDITION BEFORE SOLDERING

The temperature should be within 5~30°C and humidity should be less than 75% RH. The product should be used within 12 months from the time of delivery.

Description: 2012 Band Pass Filter
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PACKING SPECIFICATION
Peel-off force


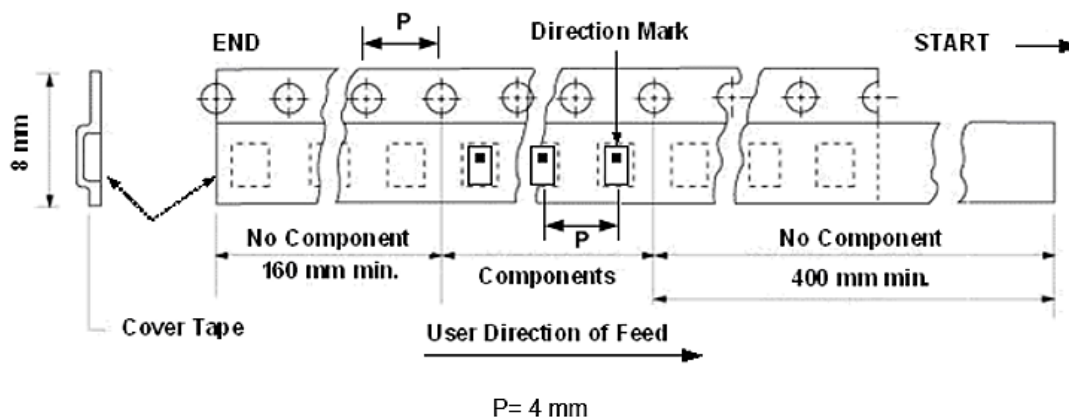
The force for peeling of cover tape is 10 grams in the arrow direction.

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	10000



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Description: 2012 Band Pass Filter**PART NUMBER:** BPF2012LKAMR6580A**REVISION HISTORY**

Revision	Date	Description
Version 1	Mar. 25, 2022	- New issue.
Version 2	Nov. 11, 2022	- Added Packing Spec.
Version 3	Jun. 27, 2023	- Added Impedance & Storage Temperature.

Mouser Electronics

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