

**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.

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

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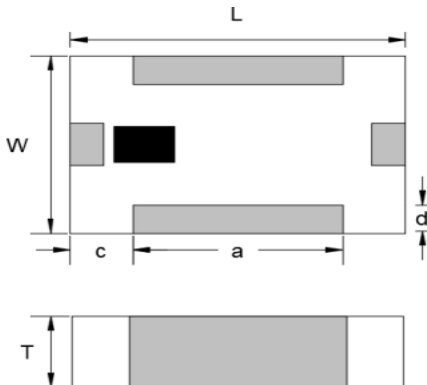


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**MECHANICAL DIMENSION**

**Outline**

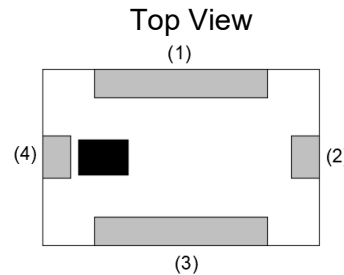


**Dimension**

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

NOTE : Dimensions in mm.

**Termination**

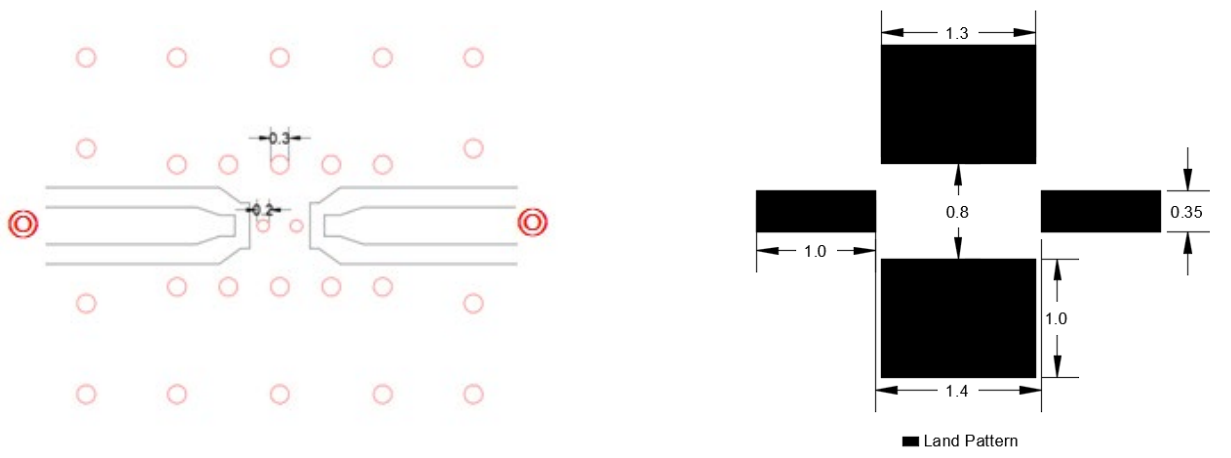


**Terminal name**

**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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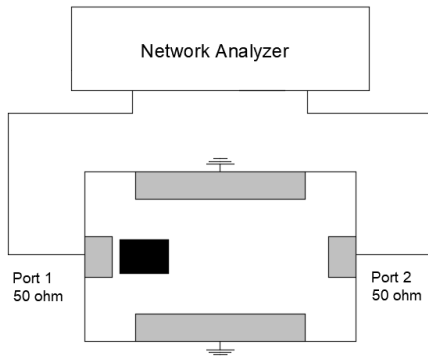
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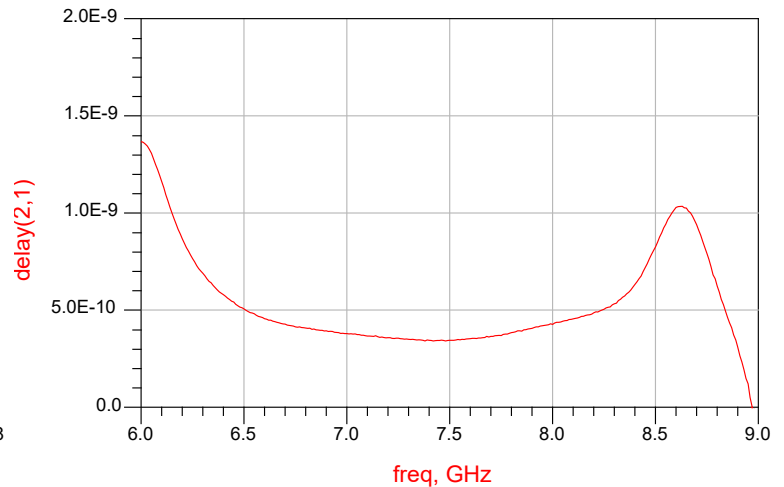
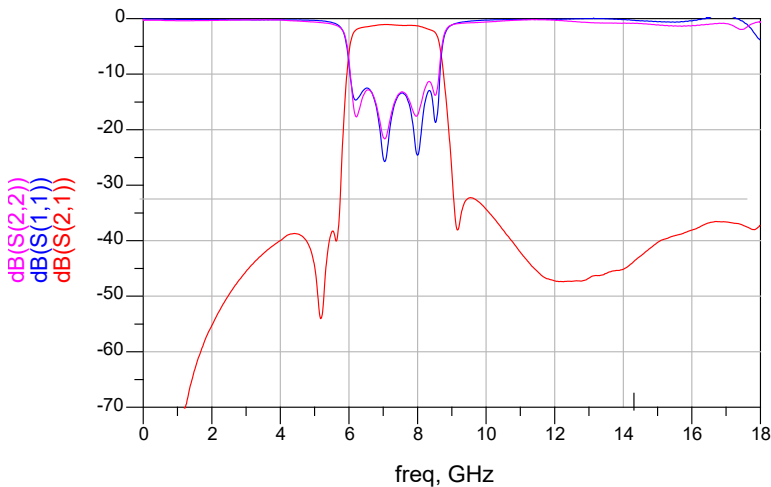
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MEASURING DIAGRAM



Test Instrument :  
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



● Measured on Agilent E5071C Network Analyzer

Frequency Characteristics

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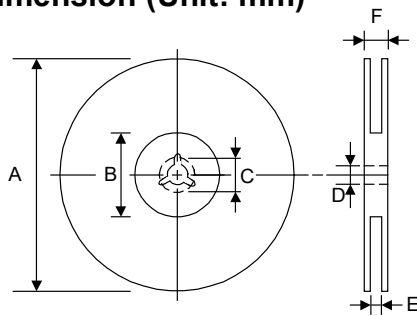
**PACKING SPECIFICATION**

**Peel-off force**



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

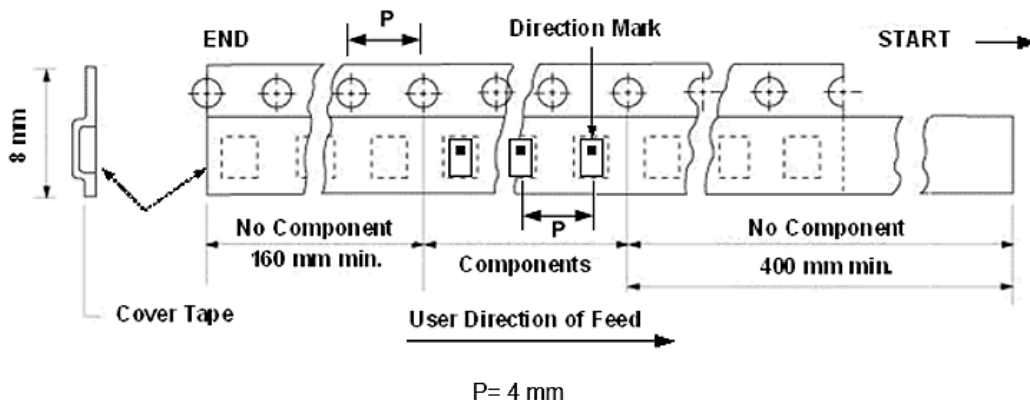
**Dimension (Unit: mm)**



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



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**Description:** 2012 Band Pass Filter**PART NUMBER:** BPF2012LKBMR6580A  
(Preliminary)**REVISION HISTORY**

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