

Description: 2012 UWB Band Pass Filter

PART NUMBER: BPF2012LKAMR6580A

Features:

- Compact size : 2.0 x1.25x0.95mm
- RoHS compliant
- AEC-Q200 Qualified

Applications:

- IEEE, 802.15.4

ELECTRICAL SPECIFICATIONS

DESCRIPTION	Value
Pass Band	6240~8240 MHz
Insertion Loss	1.55 dB (typ.) / 2.5 dB (Max.)
Return Loss	14.1 dB (typ.) / 10 dB (Min.)
Attenuation	36 dB(typ.) / 35 dB min. @ DC~5200 MHz 18.5 dB(typ.) / 15 dB min. @ 5200~5860 MHz 24 dB(typ.) / 10 dB min. @ 9000~9500 MHz 31 dB(typ.) / 30 dB min. @ 9500~18000 MHz
Group Delay (ns)	0.85 ns.(typ.) / 3.0 ns. (max.) @ 6240~8240 MHz
Group Delay Ripple (ns)	0.35 ns.(typ.) / 1.0 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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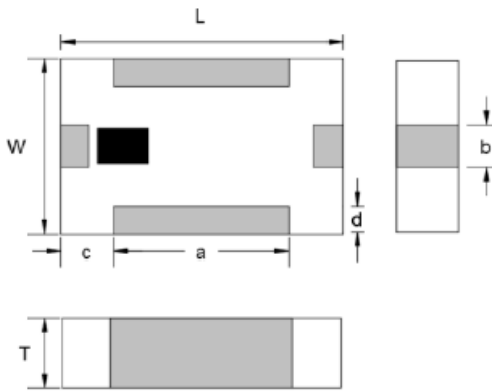


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MECHANICAL DIMENSION

Outline

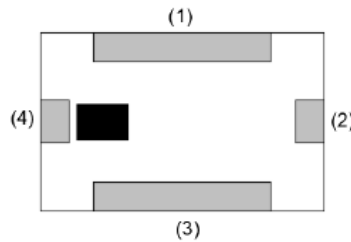


Termination

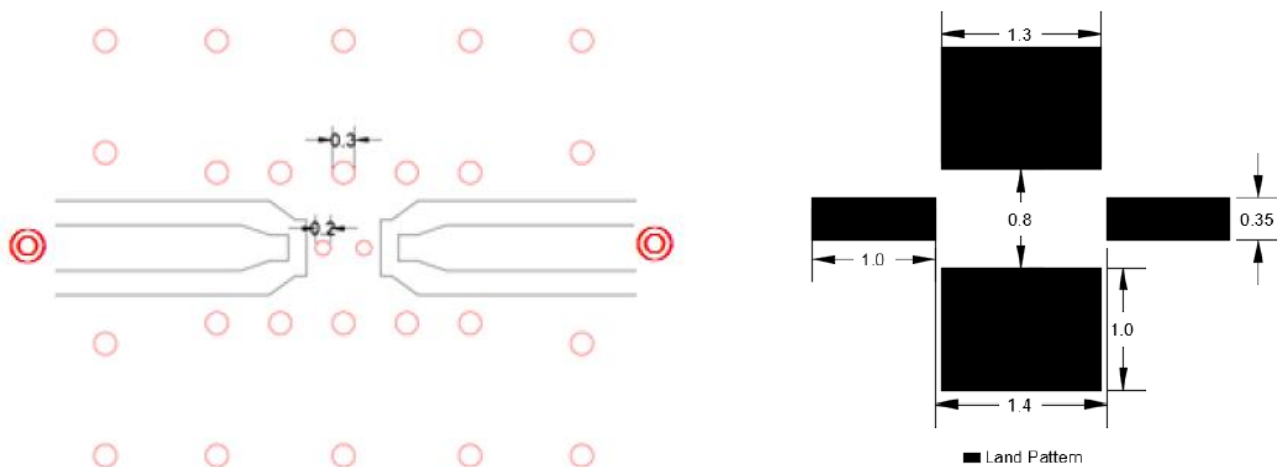
Terminal name	Function
P1	GND
P2	Input/Output
P3	GND
P4	Input/Output

Mechanical

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



Reference design of EVB



Unit : mm

Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

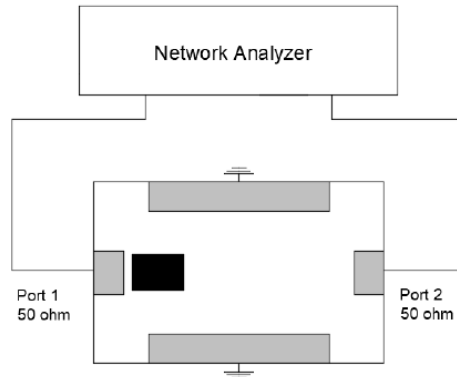
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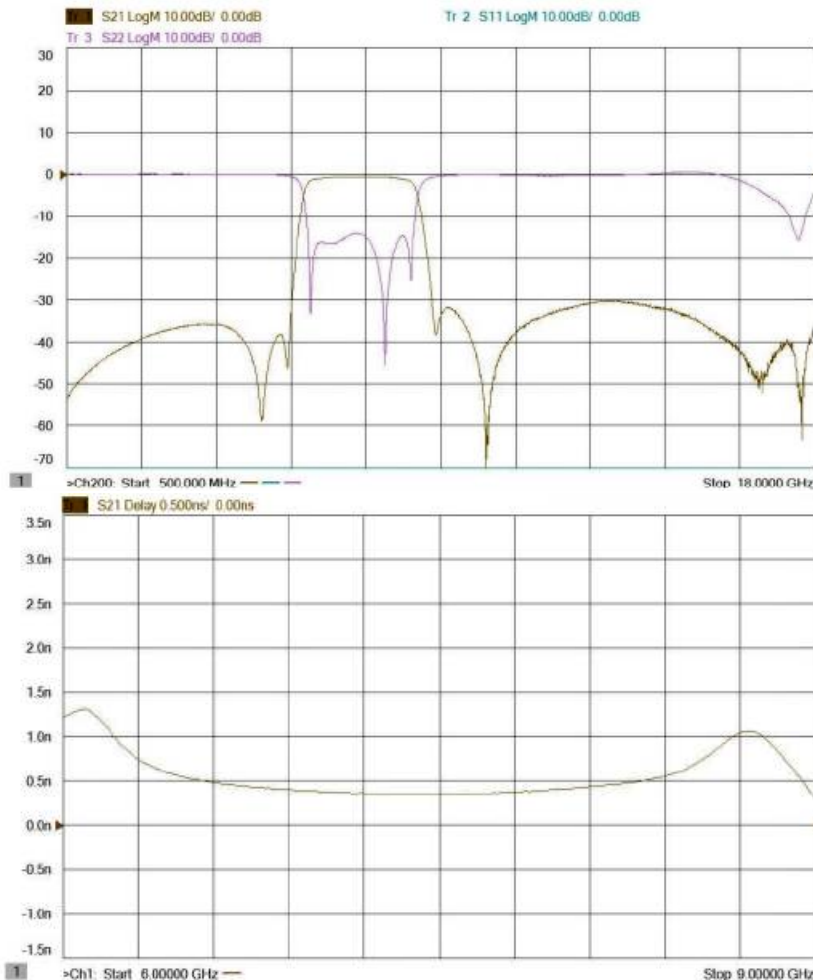
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MEASURING DIAGRAM



Test Instrument :
Agilent E5071A Network Analyzer.

ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C Network Analyzer

Frequency Characteristics

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

Revision	Date	Description
Version 1	May. 13, 2022	- New issue