

Description: 1608 UWB Band Pass Filter
Preliminary

PART NUMBER: BPF1608LKAPR6580A

Features:

- Compact Size
- Low loss
- High Soldering Heat Resistance

Applications:

- IEEE, 802.15.4

ELECTRICAL SPECIFICATIONS

ELECTRICAL REQUIREMENTS

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	6240~8240	-	1.4	2.2
Insertion Loss (dB) at -40~85°C	6240~8240	-	-	-
Return Loss (dB)	6240~8240	9.54	22.2	-
Attenuation (dB)	2300~3800	38	40.2	-
	5150~5470	16	19.0	-
	5470~5725	6	9.7	-
	5725~5850	3	6.2	-
	5850~5925	1.9	4.4	-
	12500~16500	20	32.3	-
	18700~20000	12	27.6	-
Ripple (dB)	6240~8240	-	0.57	1.5

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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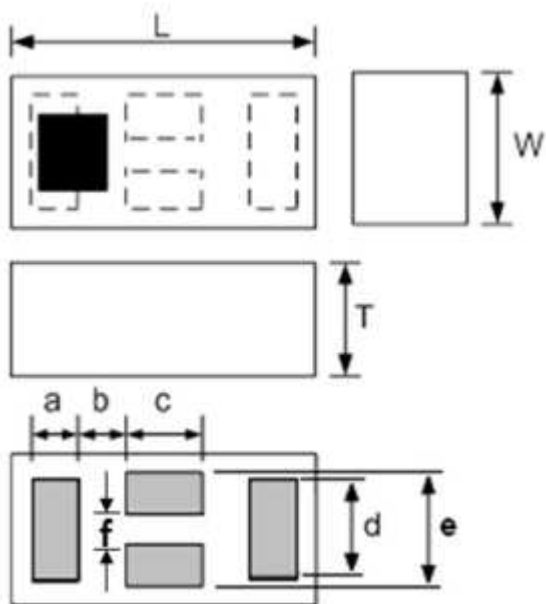


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MECHANICAL DIMENSION

Outline



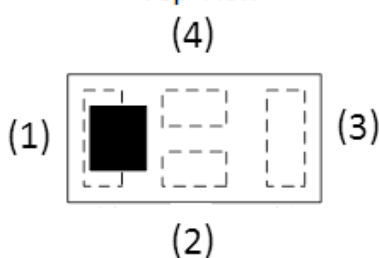
Dimension

L	W	T	a
1.60±0.10	0.80±0.10	0.70±0.10	0.25±0.05
b	c	d	e
0.23±0.05	0.40±0.05	0.55±0.05	0.60±0.05
f			
0.20±0.05			

NOTE : Dimensions in mm.

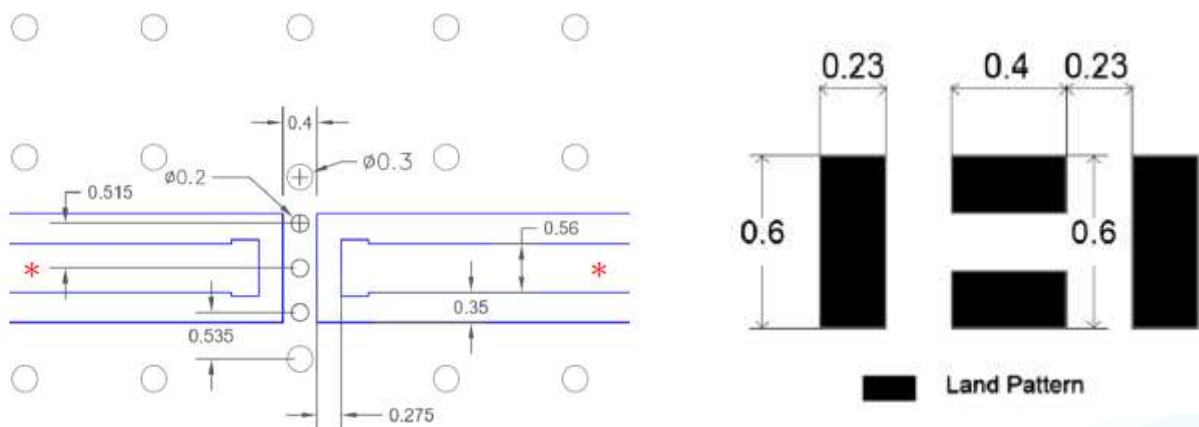
Termination

Top View



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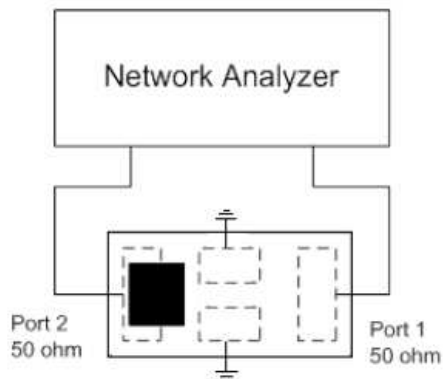
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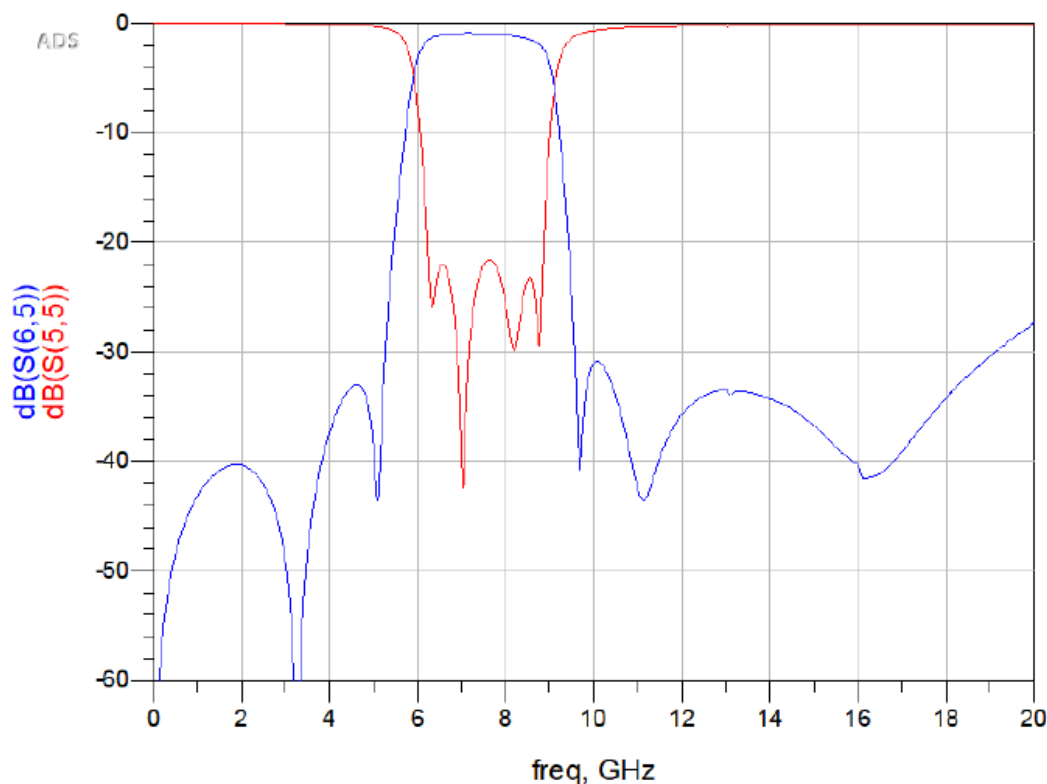
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MEASURING DIAGRAM



Test Instrument :
Agilent E5071A Network
Analyzer.

ELECTRICAL PERFORMANCES



- Measured on Agilent E5071C
Network Analyzer

Frequency Characteristics

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**Description: 1608 UWB Band Pass Filter
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Revision	Date	Description
Version 1	Feb. 24, 2022	- New issue