

**Description: 1608 5.0GHz Band Pass Filter**

**PART NUMBER: BPF1608LM09R5000A**

**Features:**

- Compact size : 1.6x0.8x0.6mm
- RoHS compliant

**Applications:**

- WLAN, 802.11a/n
- ISM Band

**ELECTRICAL SPECIFICATIONS**

DESCRIPTION	Value
Pass Band	4900 ~ 5850 MHz
Insertion Loss	1.5 max. at 25°C
V.S.W.R / Return Loss	2.0 (Max) / 10dB (Min.)
Attenuation	33 min. at 500 ~ 2170 MHz 29 min. at 2170 ~ 2500 MHz 32 min. at 9800 ~ 12000 MHz
Operating Temperature	-40 ~ 85°C

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

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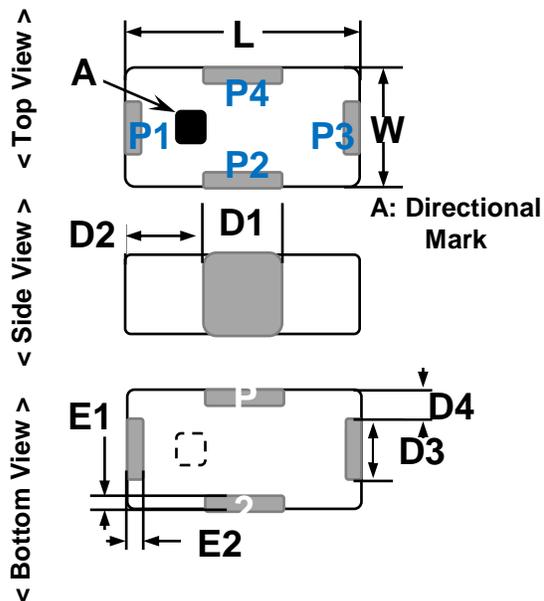
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MECHANICAL DIMENSION

Outline



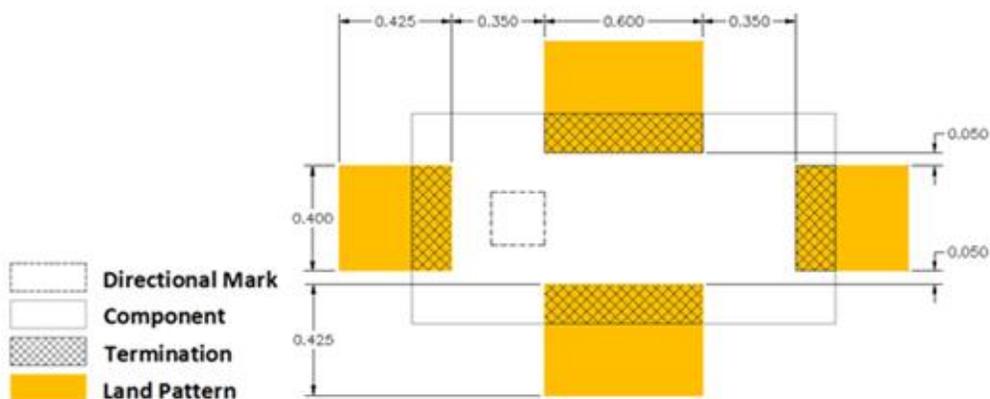
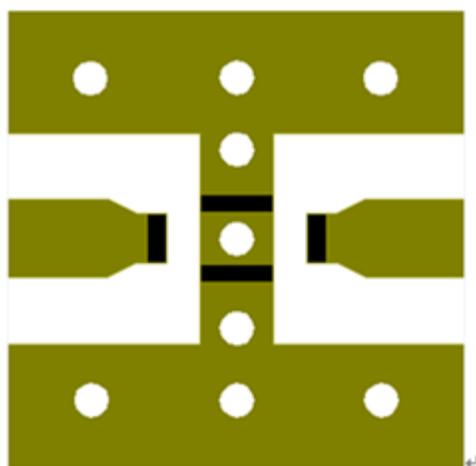
Termination

Terminal name	Function
P1	Input
P2	GND
P3	Output
P4	GND

Mechanical

	Dimension
L (mm)	1.60±0.15
W (mm)	0.80±0.15
T (mm)	0.60±0.10
D1 (mm)	0.60±0.10
D2 (mm)	0.50±0.10
D3 (mm)	0.40±0.15
D4 (mm)	0.20±0.10
E1 (mm)	0.15±0.10
E2 (mm)	0.15±0.10

Reference design of EVB



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

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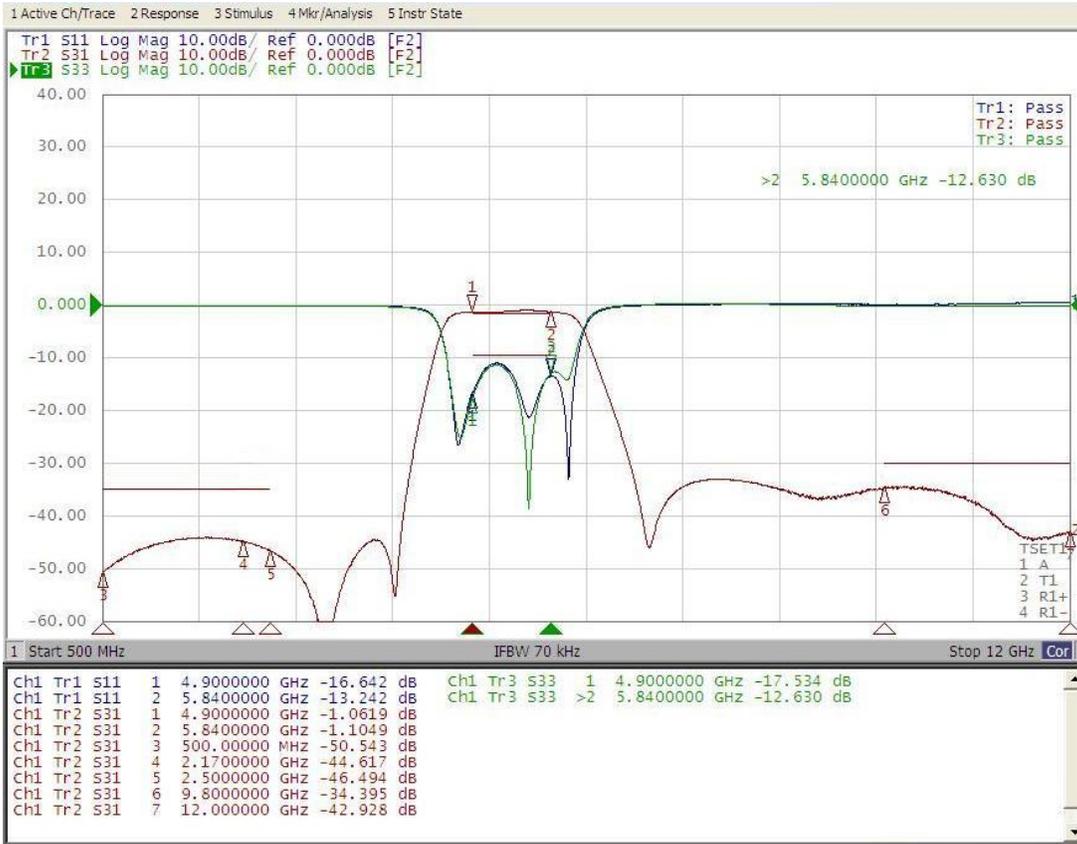
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**ELECTRICAL PERFORMANCES**



- Measured on Agilent E5071C Network Analyzer
- Input port : Port 1 (Return loss : S11)
- Output port : Port 3 (Return loss : S33)
- Insertion loss : S31

Frequency Characteristics

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### REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 07, 2020	- New issue