



**THE DATASHEET OF  
BPF1608LM10R5000A**



**Description: 1608 5.0GHz Band Pass Filter**
**PART NUMBER: BPF1608LM10R5000A**
**Features:**

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

**Applications:**

- WLAN, 802.11a/n
- ISM Band

**ELECTRICAL SPECIFICATIONS**

DESCRIPTION	Value
Pass Band	4900 ~ 5950 MHz
Insertion Loss	1.3 max. at 25°C
V.S.W.R / Return Loss	2.0 (Max) / 10dB (Min.)
Attenuation	38 min. at 30 ~ 2700 MHz 16 min. at 3453 ~ 3547 MHz 33 min. at 3667 ~ 3883 MHz 9 min. at 6900 ~ 7093 MHz 32 min. at 7333 ~ 7750 MHz 40 min. at 10600 ~ 11650 MHz 18 min. at 15540 ~ 17760 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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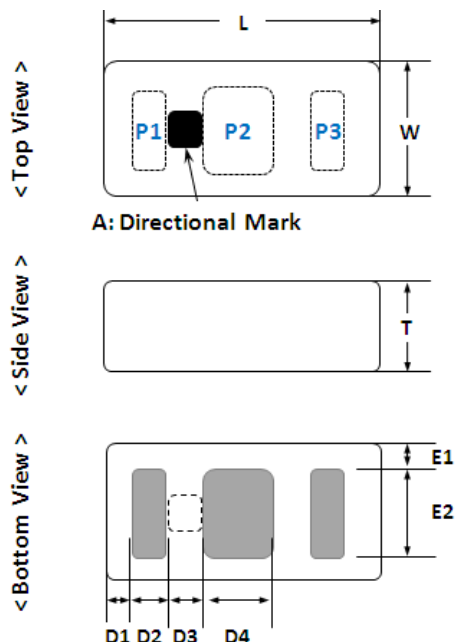
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**MECHANICAL DIMENSION**

**Outline**



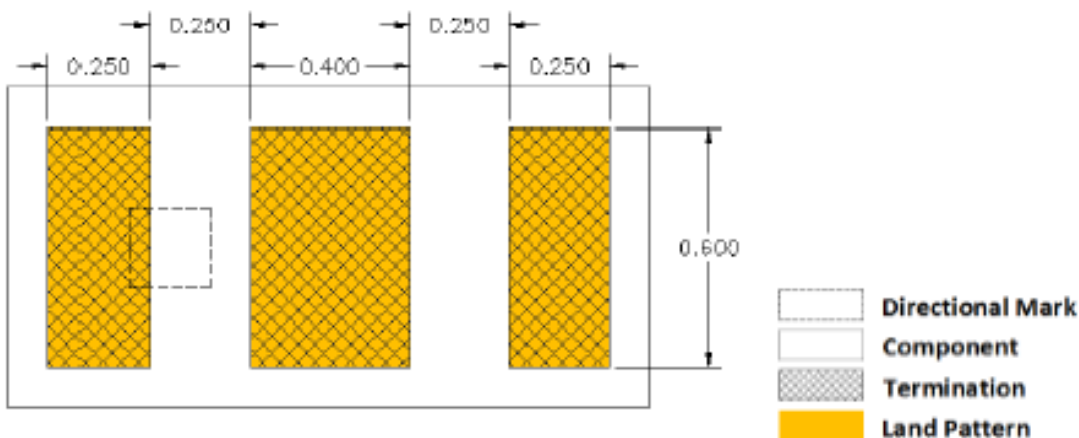
**Termination**

Terminal name	Function
P1	Input
P2	GND
P3	Output

**Mechanical**

	Dimension
L (mm)	1.60±0.15
W (mm)	0.80±0.15
T (mm)	0.60±0.15
D1 (mm)	0.10±0.10
D2 (mm)	0.25±0.10
D3 (mm)	0.25±0.10
D4 (mm)	0.40±0.10
E1 (mm)	0.10±0.10
E2 (mm)	0.60±0.10

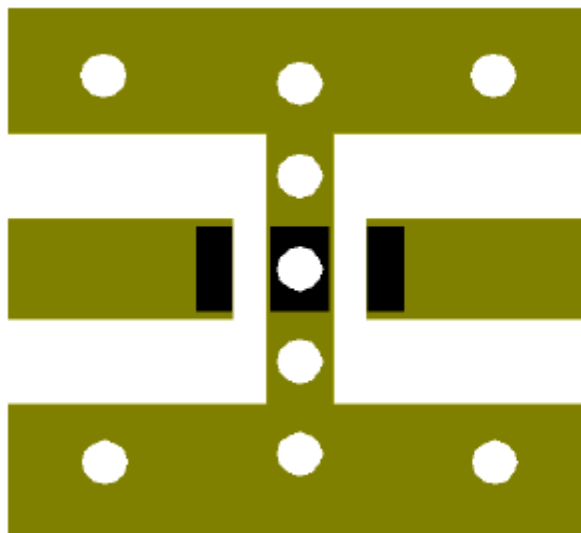
**Recommended Land Pattern**






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**Recommended PCB Pattern**



-  Solder Resist
-  Land
-  Via diameter=0.3mm

Unit : mm

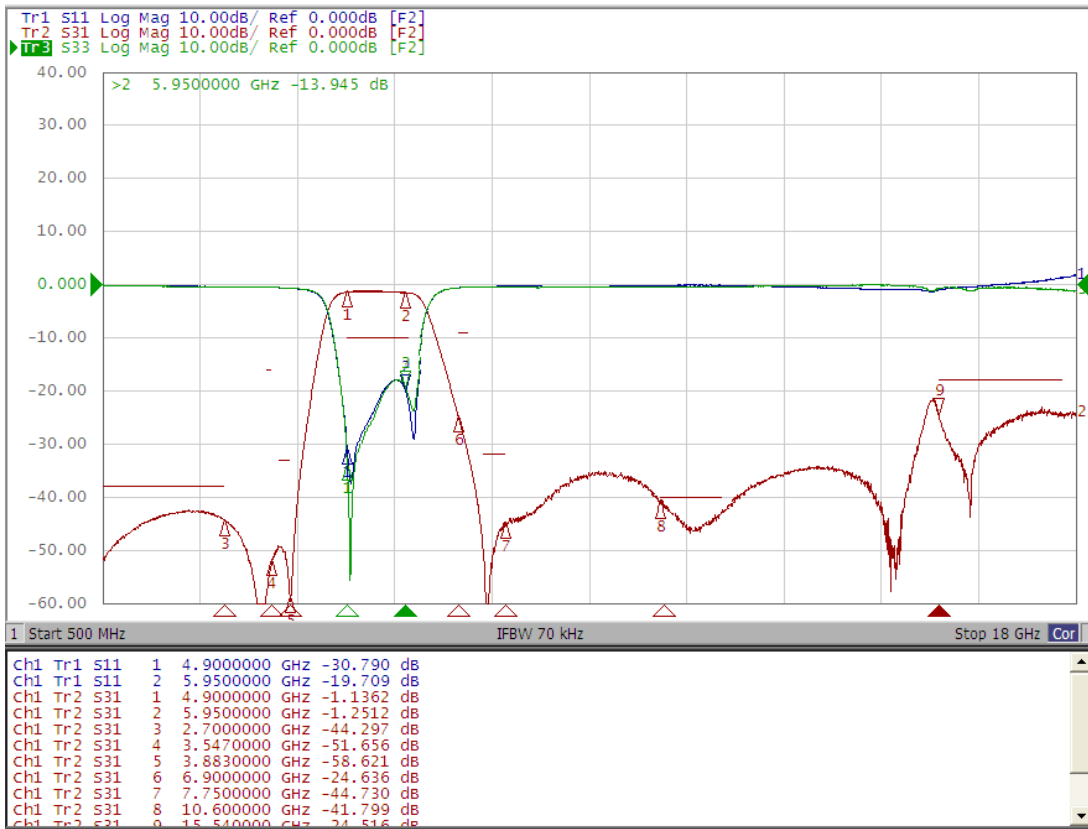
Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

Reference design of evaluation board

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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	Dec. 09, 2020	- New issue

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