

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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For more information:

Pulse Worldwide Headquarters
 15255 Innovation Drive #100
 San Diego, CA 92128
 USA
 Tel: 1-858-674-8100

Pulse/Larsen Antennas
 18110 SE 34th St Bldg 2 Suite 250
 Vancouver, WA 98683
 USA
 Tel: 1-360-944-7551

Europe Headquarters
 Pulse GmbH & Co, KG
 Zeppelinstrasse 15
 Herrenberg, Germany
 Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
 99 Huo Ju Road(#29 Bldg, 4th Phase
 Suzhou New District
 Jiangsu Province, Suzhou 215009 PR China
 Tel: 86 512 6807 9998

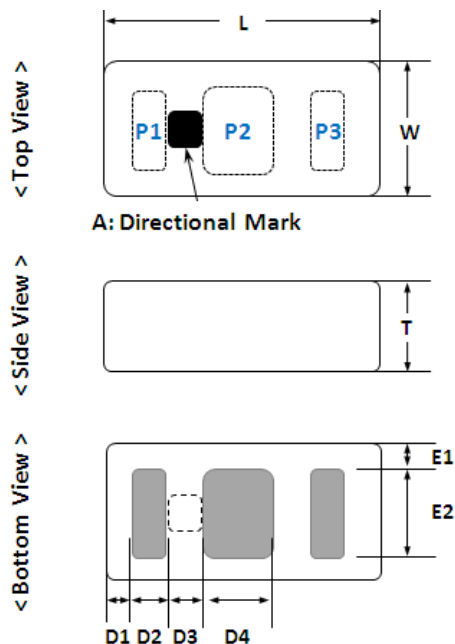


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MECHANICAL DIMENSION

Outline



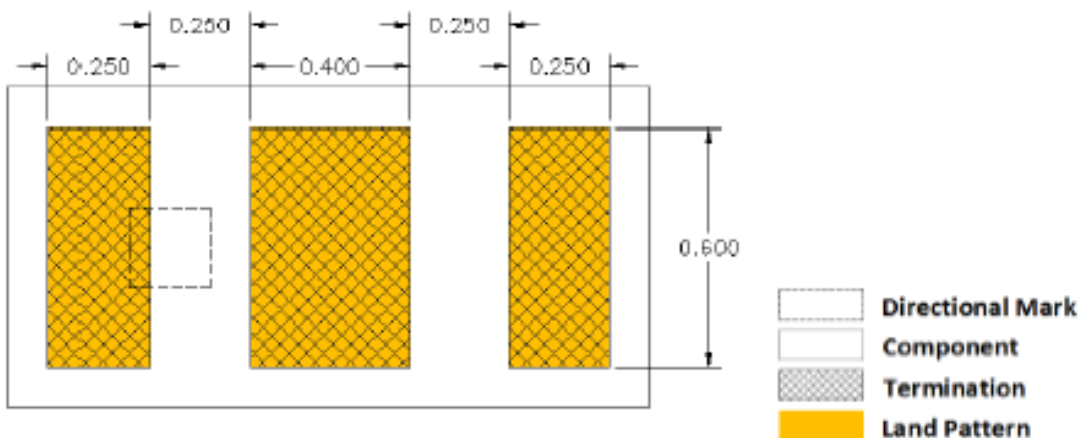
Termination

| 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 |

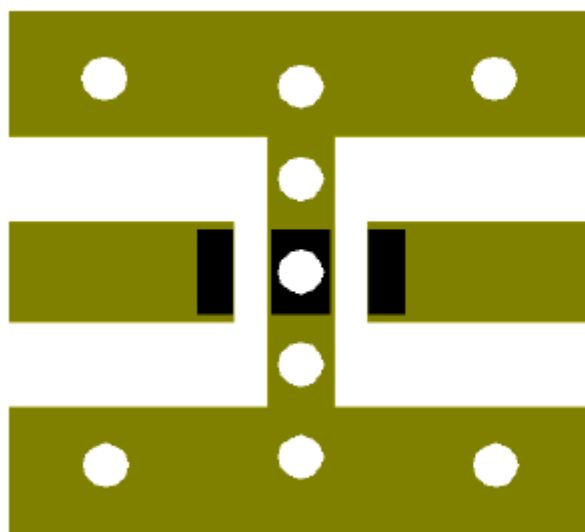
Recommended Land Pattern






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Recommended PCB Pattern



-  Solder Resist
-  Land
-  Via diameter=0.3mm

Unit : mm

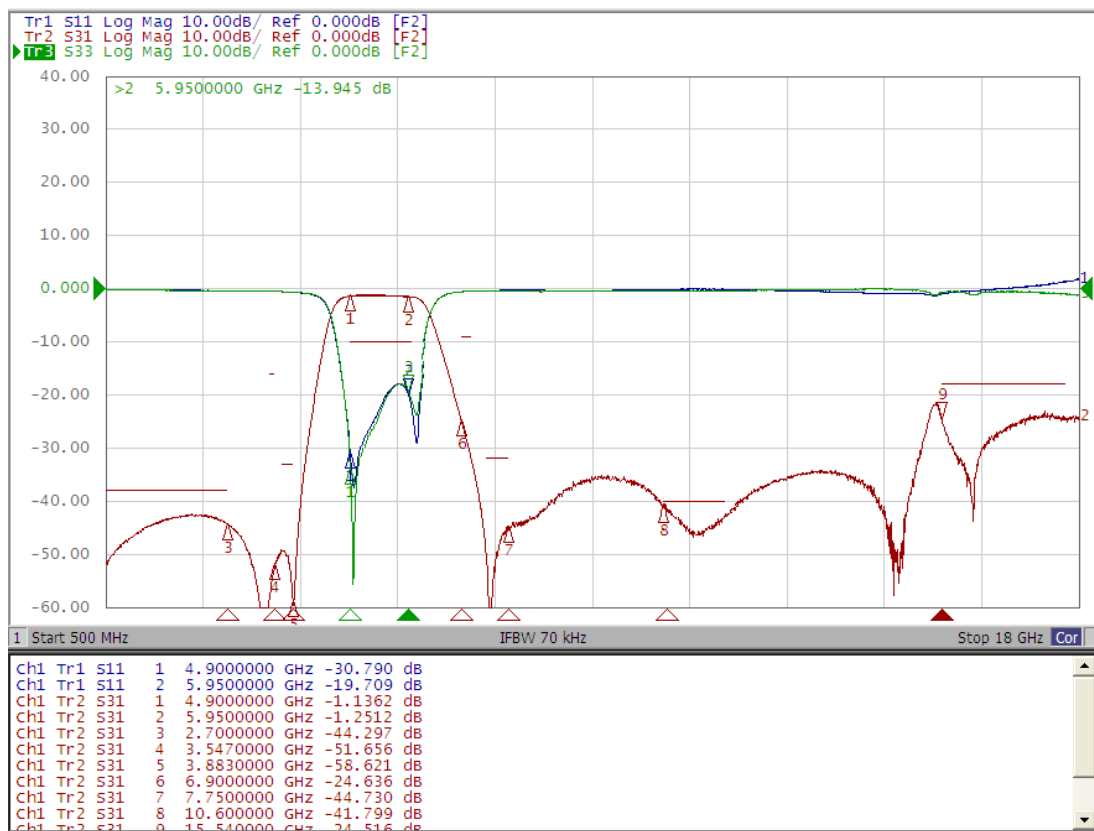
Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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 |