

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.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

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

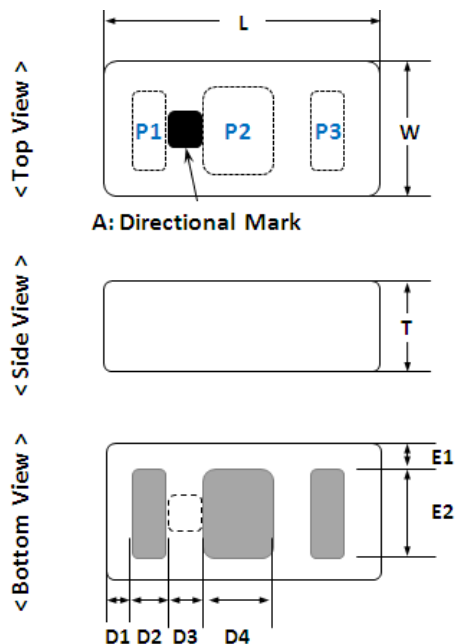


Description: 1608 5.0GHz Band Pass Filter

PART NUMBER: BPF1608LM10R5000A

MECHANICAL DIMENSION

Outline



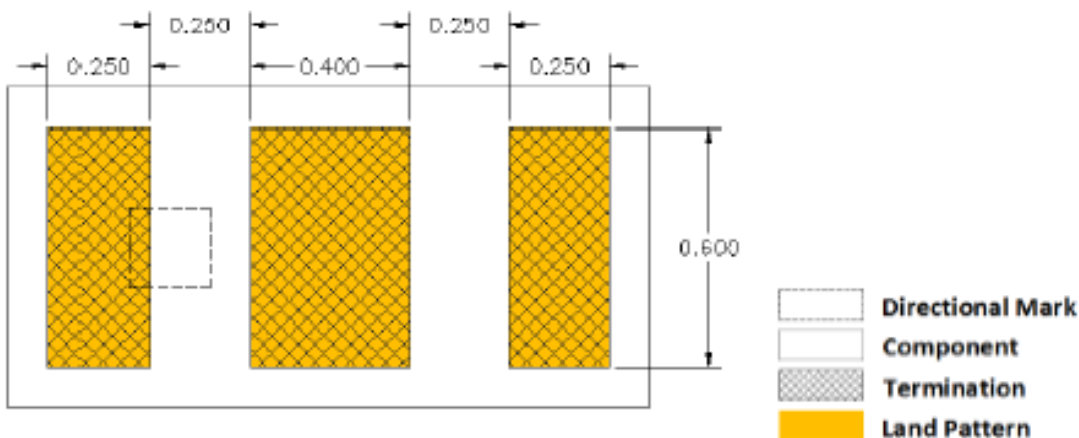
Termination

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

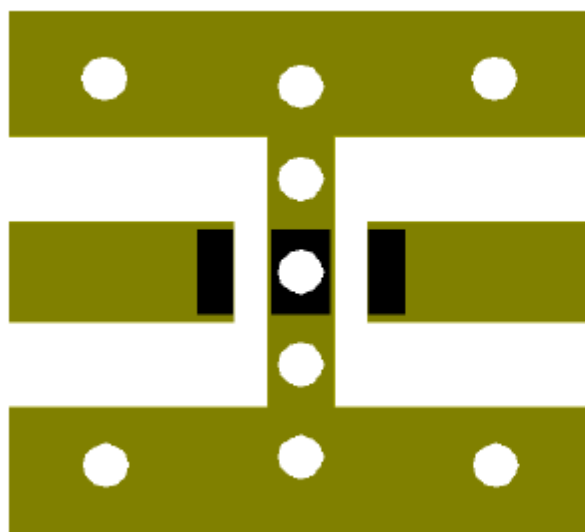
Recommended Land Pattern



Description: 1608 5.0GHz Band Pass Filter

PART NUMBER: BPF1608LM10R5000A

Recommended PCB Pattern



-  Solder Resist
-  Land
-  Via diameter=0.3mm

Unit : mm

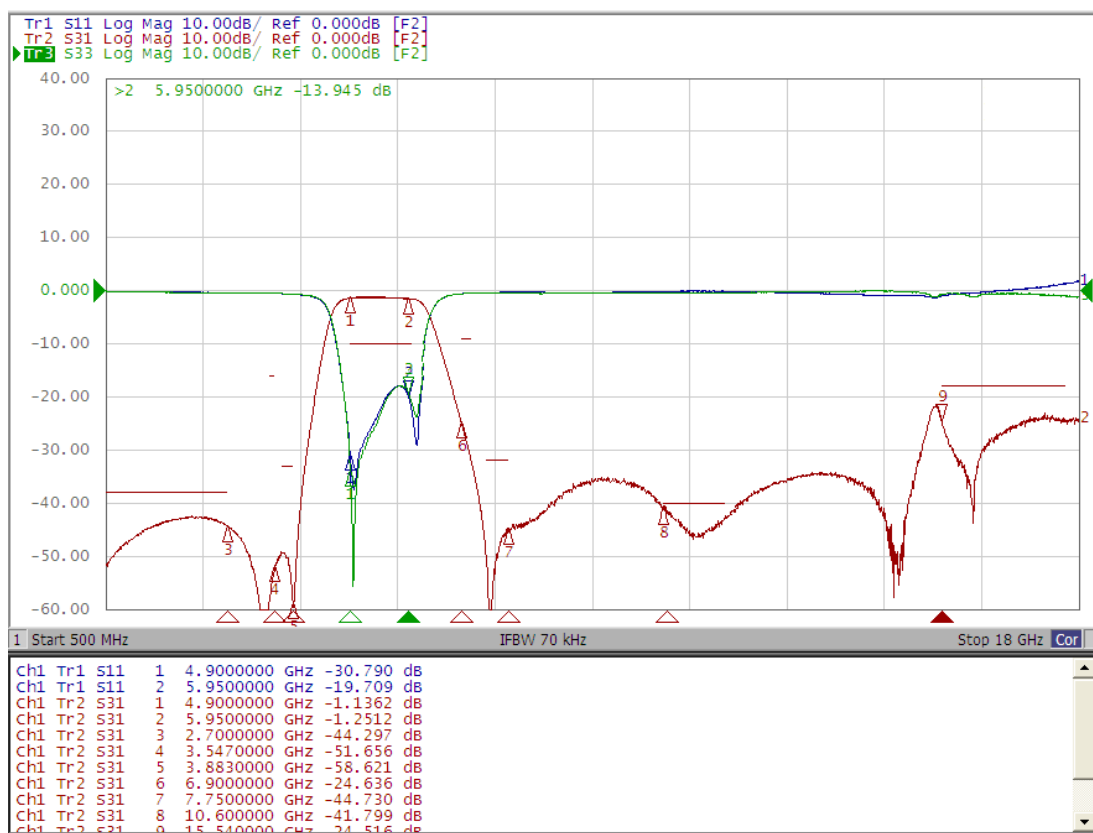
Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

Reference design of evaluation board

Description: 1608 5.0GHz Band Pass Filter

PART NUMBER: BPF1608LM10R5000A

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

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

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse Electronics, Inc. (Pulse) and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse is strictly forbidden.

Description: 1608 5.0GHz Band Pass Filter

PART NUMBER: BPF1608LM10R5000A

REVISION HISTORY

Revision	Date	Description
Version 1	Dec. 09, 2020	- New issue