chanhvinh.com

Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 2.4G&2.5GHz Band Pass Filter

PART NUMBER: BPF1608LM02R2400A

Features:

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

Applications:

- WLAN, 802.11a/b/g/n
- Bluetooth
- ISM Band

ELECTRICAL SPECIFICATIONS

DESCRIPTION	VALUE
Pass Band	2400-2500 MHz
Impedance	50 Ohm
Insertion Loss	1.7 dB (Max) at 25°C 2.0 dB (Max) at –40~+85 °C
V.S.W.R / Return-Loss	2.0 (Max) / 10.0 dB (Min)
Attenuation	30dB (Min).@880~915 MHz
	25dB (Min).@1710~1785 MHz
	25dB (Min).@1850~1910 MHz
	25dB (Min).@4800~5000 MHz
	25dB (Min).@7200~7500 MHz
Ripple	0.50dB
Operating Temperature	-40~+85℃

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:

RoHS COMPLIANT

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 & Do, 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

chanhvinh.com

Pulse | LARSEN Antennas
A YAGEO Company

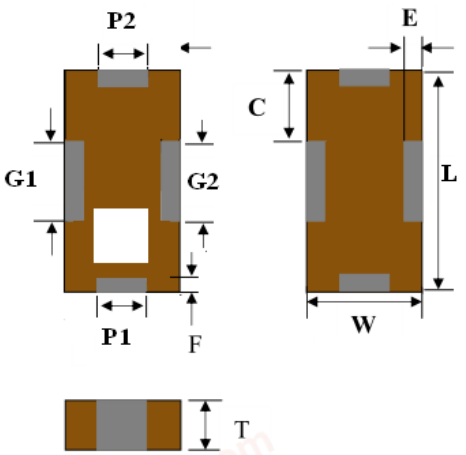
TECHNICAL DATA SHEET

Description: 1608 2.4G&2.5GHz Band Pass Filter

PART NUMBER: BPF1608LM02R2400A

MECHANICAL DIMENSION

Outline



Termination

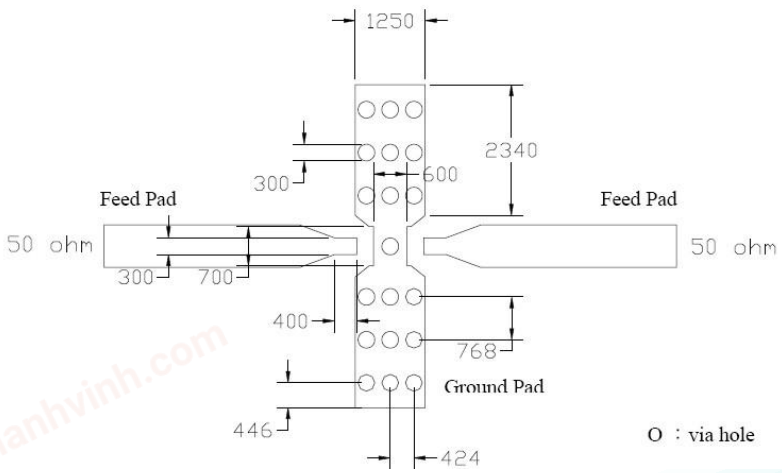
Terminal name	Function
P1	Input
P2	Output
G1	GND
G2	GND

Mechanical

	Dimension
L (mm)	1.60±0.15
W (mm)	0.80±0.15
T (mm)	0.60±0.15
P (mm)	0.40±0.15
C (mm)	0.50±0.15
G (mm)	0.60±0.15
E (mm)	0.15±0.10
F (mm)	0.15±0.10

Reference design of EVB

PCB pattern (unit: um)



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

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.

RoHS COMPLIANT

chanhvinh.com

Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 2.4G&2.5GHz Band Pass Filter

PART NUMBER: BPF1608LM02R2400A

ELECTRICAL PERFORMANCES



Ch5	Tr1	S11	1	2.4000000 GHz	-12.418 dB	Ch5	Tr2	S21	>9 5.0000000 GHz -26.921 dB
Ch5	Tr1	S11	2	2.5000000 GHz	-13.701 dB	Ch5	Tr3	S22	1 2.4000000 GHz -11.798 dB
Ch5	Tr2	S21	1	2.4000000 GHz	-1.5453 dB	Ch5	Tr3	S22	2 2.5000000 GHz -15.474 dB
Ch5	Tr2	S21	2	2.5000000 GHz	-1.3105 dB				
Ch5	Tr2	S21	3	880.00000 MHz	-31.459 dB				
Ch5	Tr2	S21	4	915.00000 MHz	-31.128 dB				
Ch5	Tr2	S21	5	1.7100000 GHz	-33.426 dB				
Ch5	Tr2	S21	6	1.7850000 GHz	-41.251 dB				
Ch5	Tr2	S21	7	1.8500000 GHz	-38.294 dB				
Ch5	Tr2	S21	8	1.9100000 GHz	-28.161 dB				

- Measured on Agilent E5071C Network Analyzer
- Common port: Port 2(Return loss S22)
- Low band port: Port 1(Low band insertion loss S12, and attenuation at high band)
- High band port: Port 4(High band insertion loss S42, and attenuation at low band)

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.

RoHS COMPLIANT

chanhvinh.com

Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 1608 2.4G&2.5GHz Band Pass Filter

PART NUMBER: BPF1608LM02R2400A

REVISION HISTORY

Revision	Date	Description
Version 1	Oct. 06, 2020	- New issue

chanhvinh.com

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.

RoHS COMPLIANT