

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°C

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

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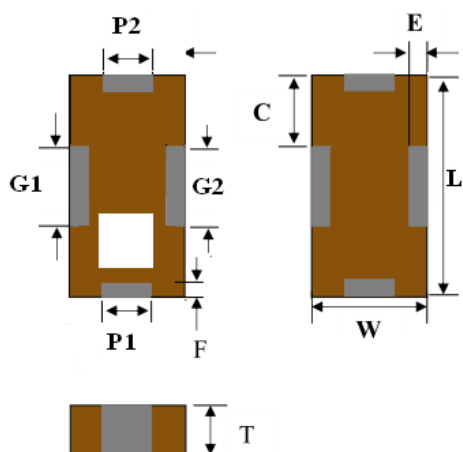
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MECHANICAL DIMENSION

Outline



Termination

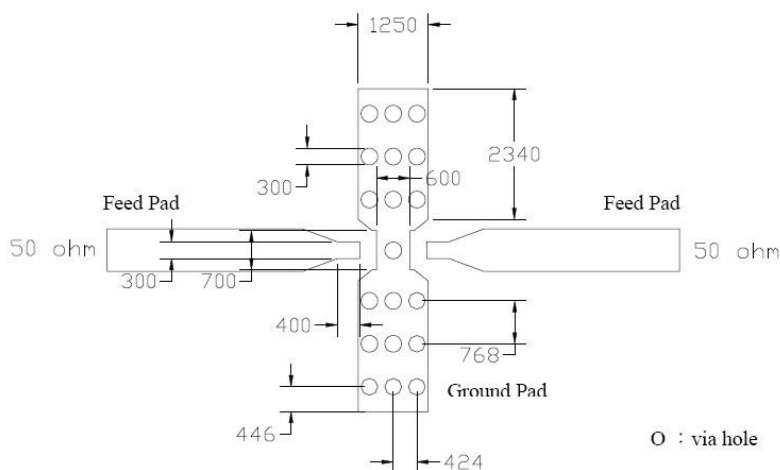
Terminal name	Function
P1	Input
P2	Output
G1	GND
G2	GND

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.

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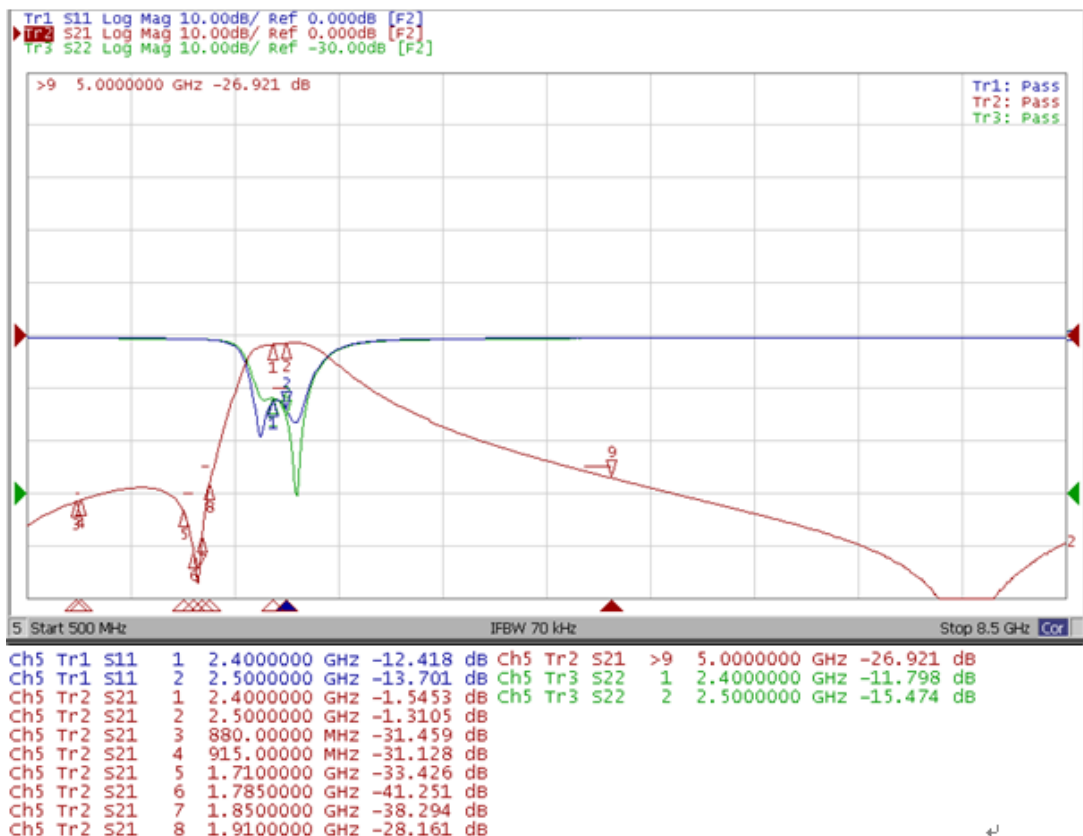
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ELECTRICAL PERFORMANCES



- 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

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REVISION HISTORY

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

Mouser Electronics

Authorized Distributor

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