

DATA SHEET

WIRELESS COMPONENTS

BAND PASS FILTER

BPF2012LM47R2400A

2.4 – 2.5 GHz

2012 Series



FEATURES

- Compact size design
- RoHS compliant

APPLICATIONS

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

ORDERING INFORMATION

All part numbers are identified by the series, packing type, material, size, antenna type, working frequency and packing quantity.

PART NUMBER

BPF 2012 LM 47 R 2400A

(1) (2) (3) (4) (5) (6)

(1) PRODUCT

BPF = Band Pass Filter

(2) SIZE

2012 = 2.0 × 1.2

(3) MATERIALS

Material Code LM

(4) TYPE

47 = Type 47

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4GHz

PHYCOMP CTC

CFL4111514472454K

I2NC

411151447245

SPECIFICATION

Table 1

| DESCRIPTION | VALUE |
|-----------------------|---------------------------|
| Pass Band | 2400-2500 MHz |
| Insertion Loss | 1.8 dB (Max.) at 25°C |
| | 20. dB (Max.) at -40~85°C |
| VSWR | 2.0 (Max) |
| | 30dB Min@ 824~915 MHz |
| | 30dB Min@ 1545~1605 MHz |
| | 35dB Min@ 1710~1990 MHz |
| | 30dB Min@ 2170 MHz |
| Attenuation | 30dB Min@ 4800~5000 MHz |
| | 25dB Min@ 7200~7500 MHz |
| | |
| Operating Temperature | -40 ~ +85 °C |

DIMENSIONS

Table 2 Machinical Dimension

| | DIMENSION |
|---------|------------|
| L (mm) | 2.00 ±0.15 |
| W (mm) | 1.25 ±0.10 |
| T (mm) | 0.75 ±0.05 |
| P1(mm) | 0.30 ±0.10 |
| P2(mm) | 0.60 ±0.10 |
| P3 (mm) | 0.30 ±0.10 |
| D1 (mm) | 0.17 ±0.05 |
| D2 (mm) | 0.23 ±0.05 |
| D3 (mm) | 0.14 ±0.05 |
| D4 (mm) | 0.95 ±0.10 |

OUTLINES

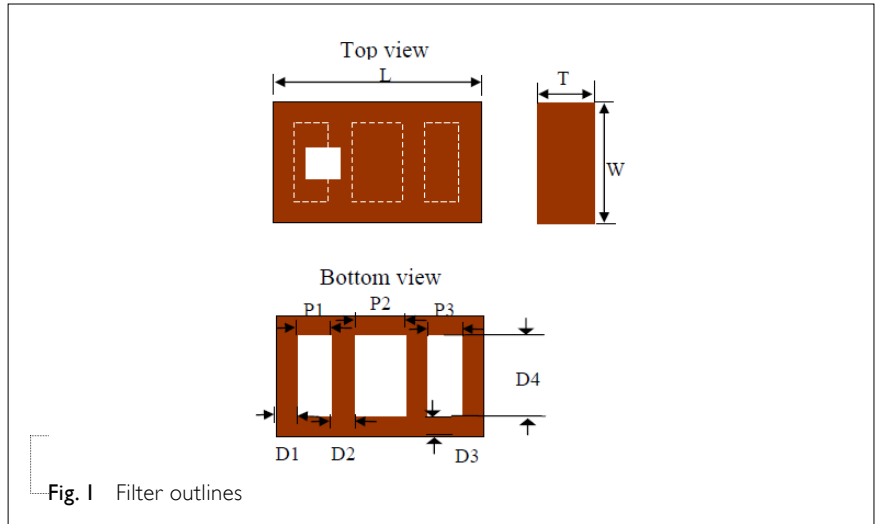


Fig. 1 Filter outlines

Table 3 Termination configuration

| TERMINAL NAME | FUNCTION |
|---------------|-----------------|
| P1 | Input Port |
| P2 | Ground Terminal |
| P3 | Output Port |

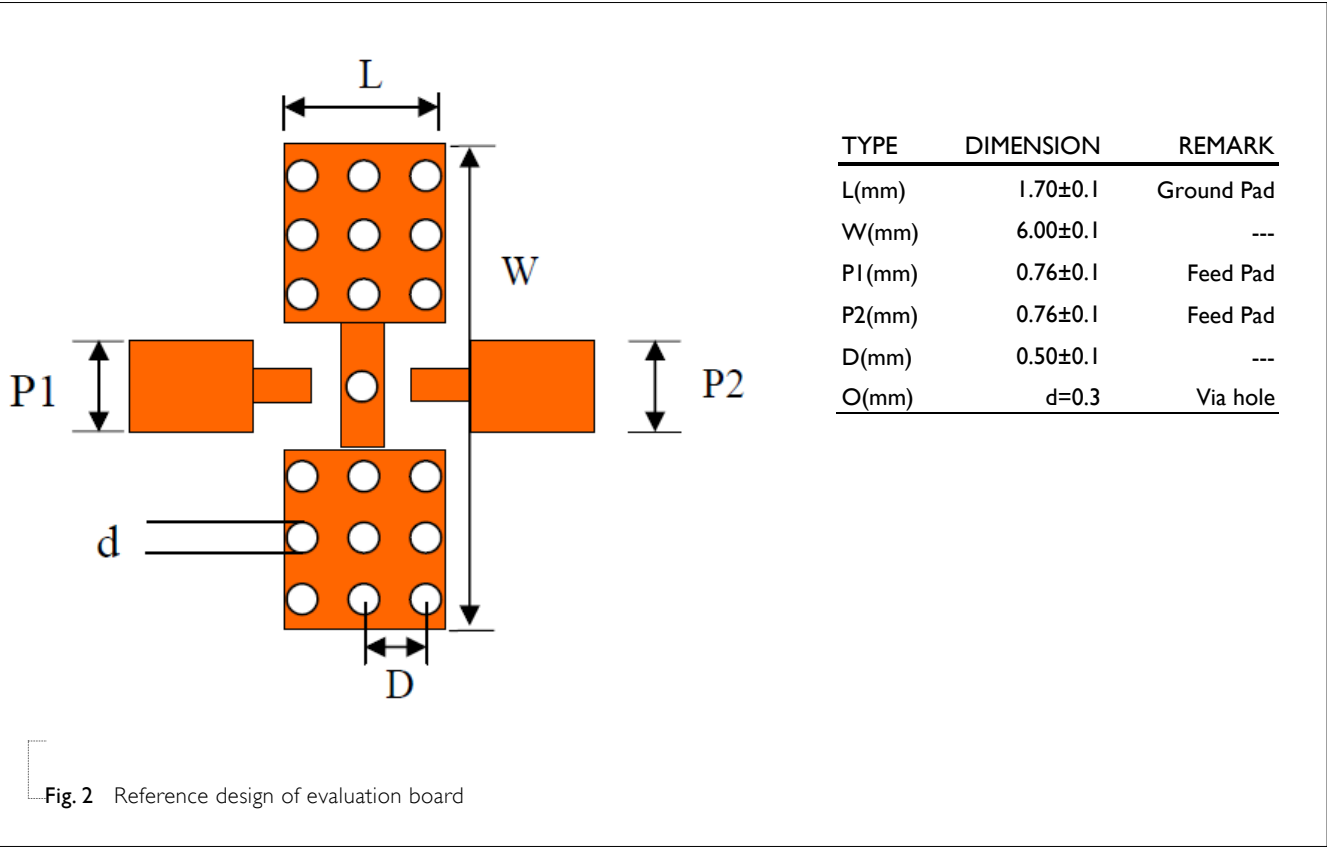


Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMANCES

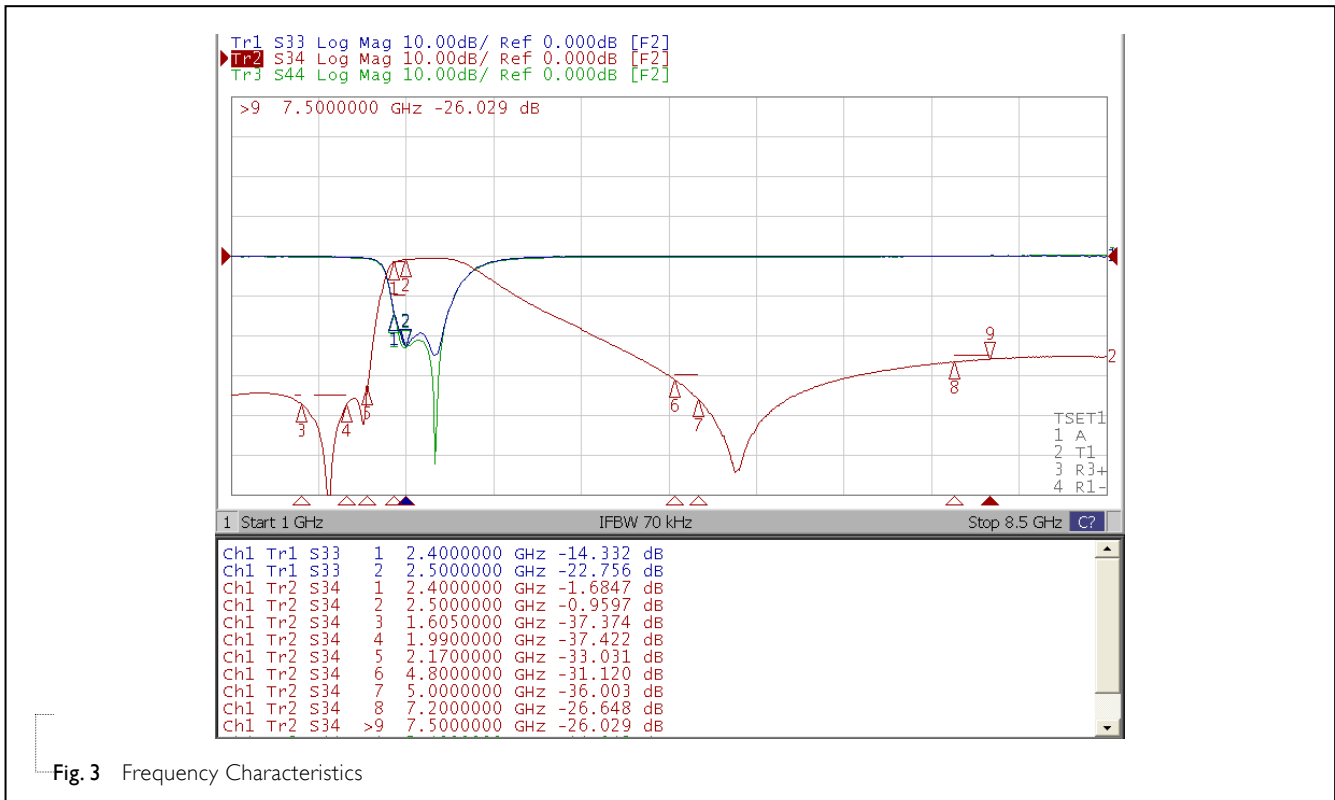


Fig. 3 Frequency Characteristics

REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|---------------|---------------------|--|
| Version 0 | Jan. 30, 2013 | - | - New data sheet for Band Pass Filter, 2.45 GHz application, 2012 series |

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