

DATA SHEET

WIRELESS COMPONENTS

Band Pass Filter

BPF2012LL22R2400A

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 LL 22 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 LL

(4) TYPE

22 = Type 22

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4GHz

PHYCOMP CTC

CFL4111714222454K

I2NC

411171422245

SPECIFICATION

Table 1

| DESCRIPTION | VALUE |
|-----------------------|---|
| Pass Band | 2400-2500 MHz |
| Insertion Loss | 2.5 dB (Max.) at 25°C 2.8 dB(Max.) at -40 ~ 85°C |
| VSWR | 2.0 (Max) |
| Attenuation | 30dB Min@ 824~915 MHz 32dB Min@ 1920~1980 MHz 16dB Min@ 2110~2170 MHz 35dB Min@ 4800~5000 MHz 23dB 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) | 0.45 ±0.05 |
| P1 (mm) | 0.30 ±0.10 |
| P2 (mm) | 0.66 ±0.10 |
| P3 (mm) | 0.30 ±0.10 |
| D1 (mm) | 0.12±0.05 |
| D2 (mm) | 0.25±0.05 |
| D3 (mm) | 0.10 ±0.05 |
| D4 (mm) | 1.05 ±0.10 |

OUTLINES

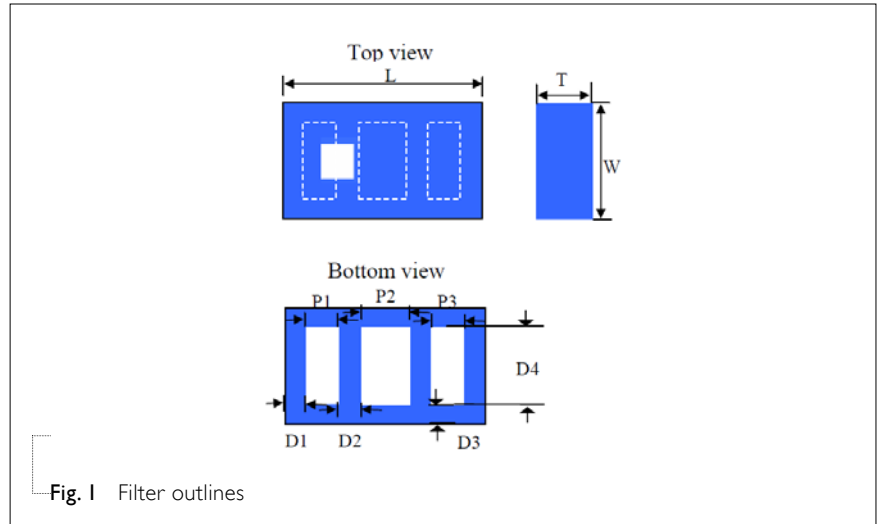


Fig. 1 Filter outlines

Table 3 Termination configuration

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

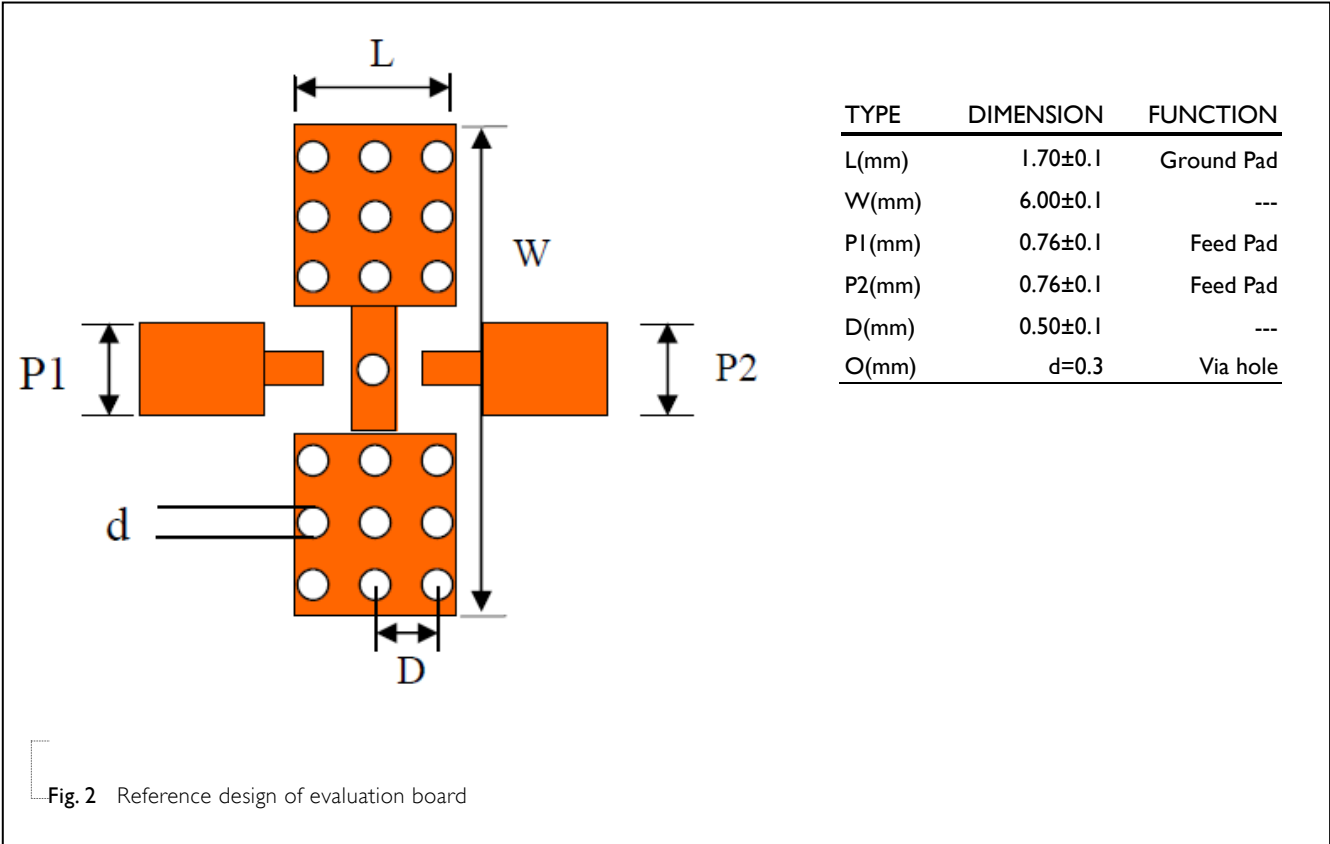


Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMANCES

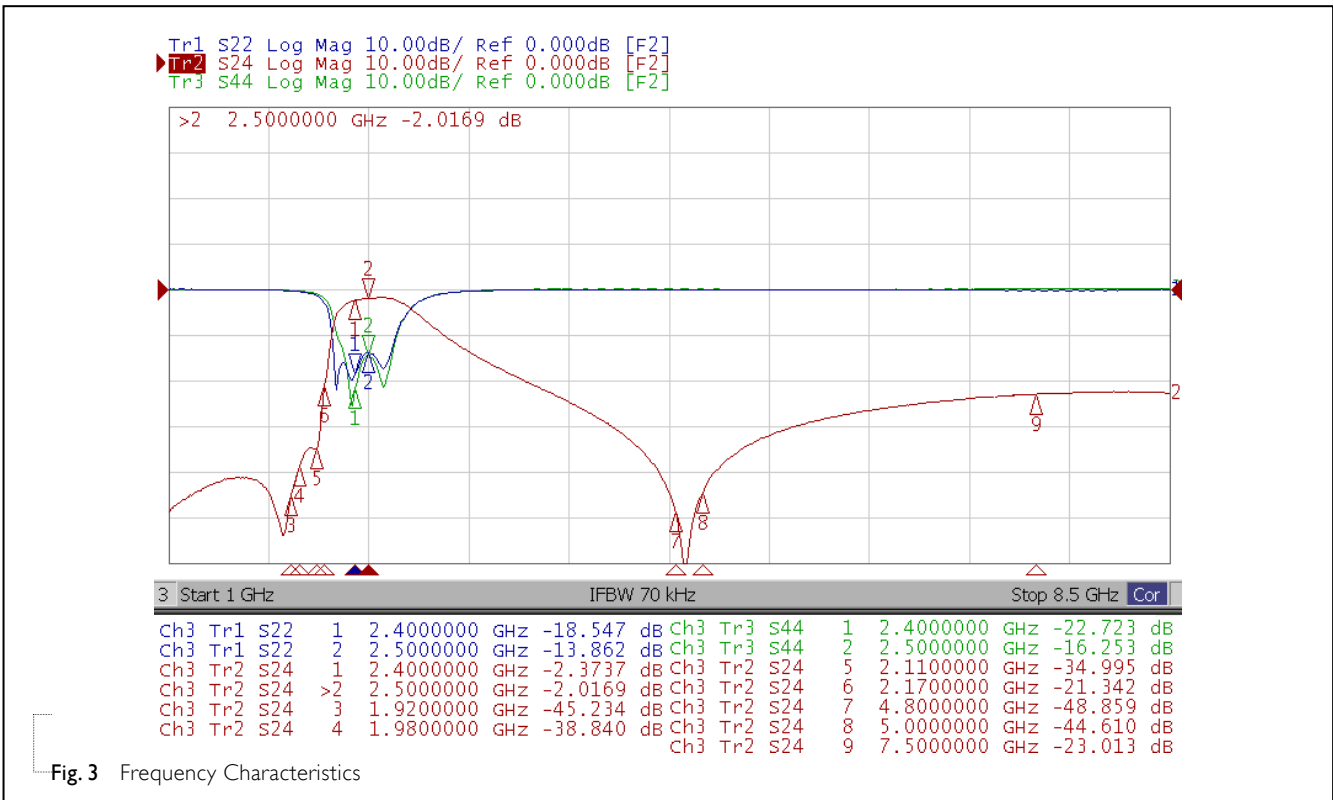


Fig. 3 Frequency Characteristics

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 |