



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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DATA SHEET

WIRELESS COMPONENTS

Band Pass Filter
BPF2012LI05R5000A

5 GHz
2012 Series



FEATURES

- Compact size design
- RoHS compliant

APPLICATIONS

- WLAN, 802.11a/b/g/n
- 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 05 R 5000A
(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

05 = Type 05

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

5000 = 5 GHz

PHYCOMP CTC

CFL4111714055004K

I2NC

411171405500

SPECIFICATION

Table 1

| DESCRIPTION | VALUE |
|-----------------------|--|
| Pass Band | 5150 ~ 5850 MHz |
| Impedance | 50Ω |
| Insertion Loss | 1.8 dB (Max.) at 25°C 2.1 dB (Max.) at -40~85°C |
| VSWR | 2.0 (Max) |
| Ripple | 0.50dB |
| Attenuation | 30dB Min@ 2400~2500 MHz 20dB Min@ 4700 MHz |
| Operating Temperature | -40 ~ 85°C |

DIMENSIONS

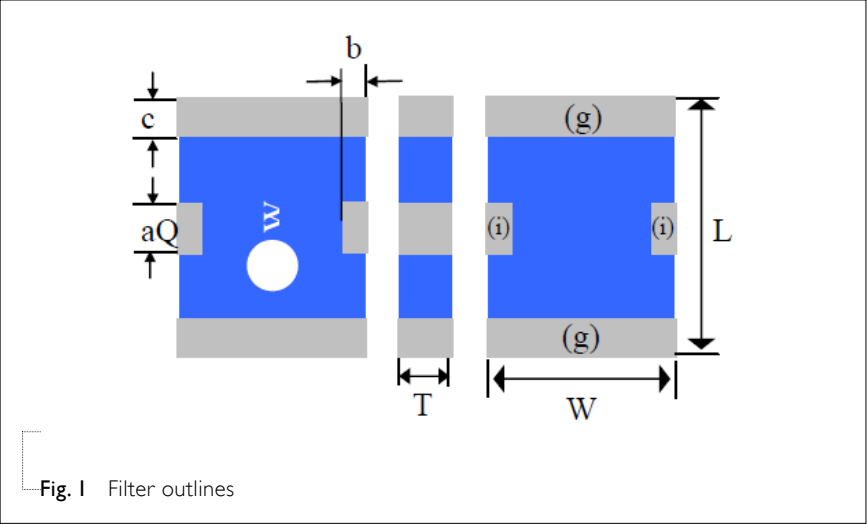
Table 2 Machinal Dimension

| | DIMENSION |
|--------|------------|
| L (mm) | 2.00 ±0.20 |
| W (mm) | 1.25 ±0.20 |
| T (mm) | 0.80 ±0.20 |
| a (mm) | 0.40 ±0.20 |
| b (mm) | 0.30 ±0.20 |
| c (mm) | 0.30 ±0.20 |

Table 3 Termination configuration

| TERMINAL NAME | FUNCTION |
|---------------|-----------------|
| (i) | I/O Terminal |
| (g) | Ground Terminal |

OUTLINES



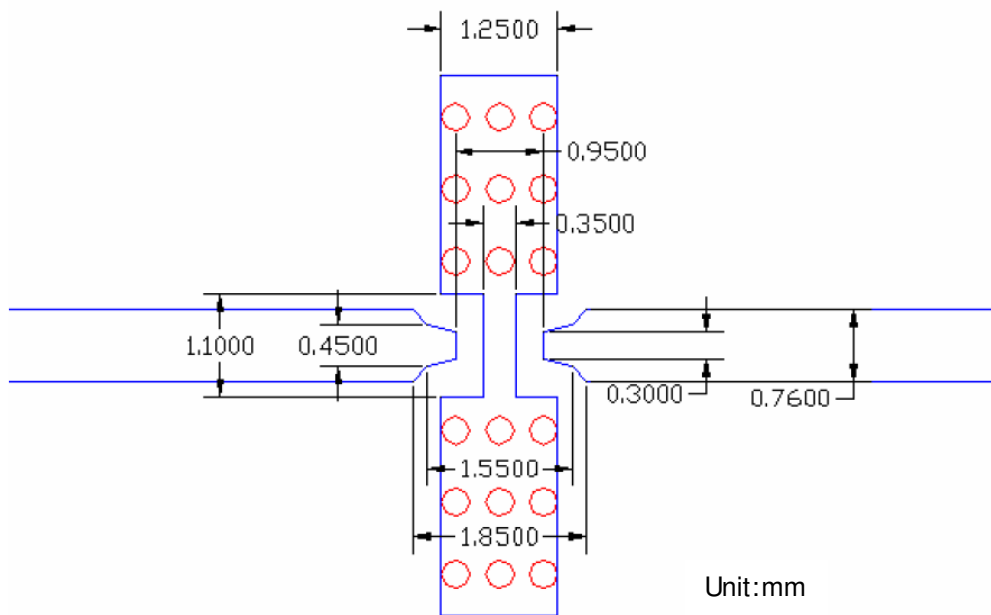


Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMANCES

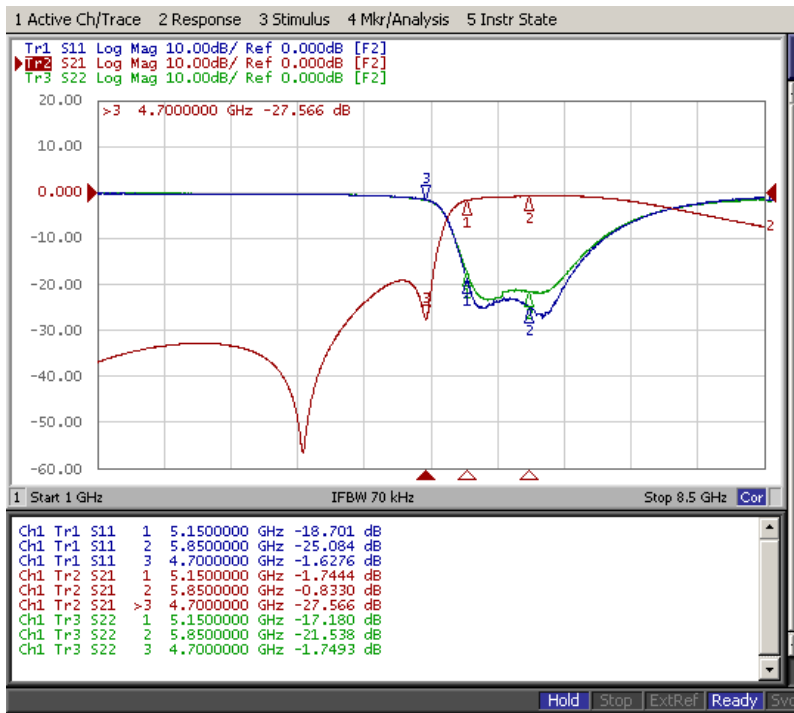


Fig. 3 Frequency Characteristics

REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|---------------|---------------------|--|
| Version 0 | Feb. 18, 2013 | - | - New data sheet for Band Pass Filter, 2.45 GHz application, 2012 series |