Innovative Service Around the Globe YAGEO

DATA SHEET

WIRELESS COMPONENTS

Band Pass Filter

BPF2012LL22R2400A

2.4-2.5 GHz

2012 Series

YAGEO Phycomp

Product Specification – January 30, 2013 V.0



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

12NC

411171422245

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Pass Band	2400-2500 MHz
Insertion Loss	2.5 dB (Max.) at 25℃
	2.8 dB(Max.) at –40 ~ 85℃
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

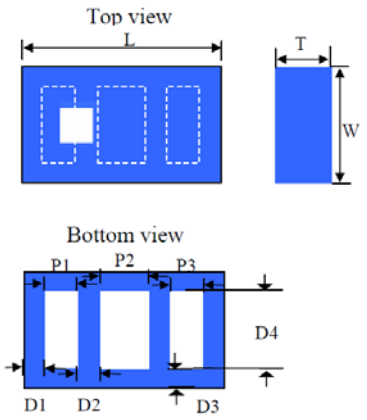
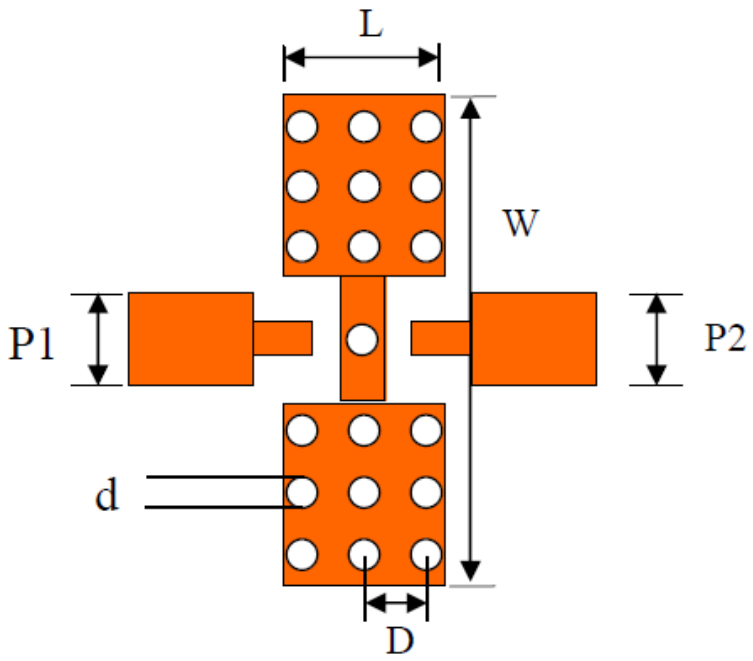


Fig. 1 Filter outlines

Table 3 Termination configuration

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



TYPE	DIMENSION	FUNCTION
L(mm)	1.70±0.1	Ground Pad
W(mm)	6.00±0.1	---
P1(mm)	0.76±0.1	Feed Pad
P2(mm)	0.76±0.1	Feed Pad
D(mm)	0.50±0.1	---
O(mm)	d=0.3	Via hole

Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMANCES

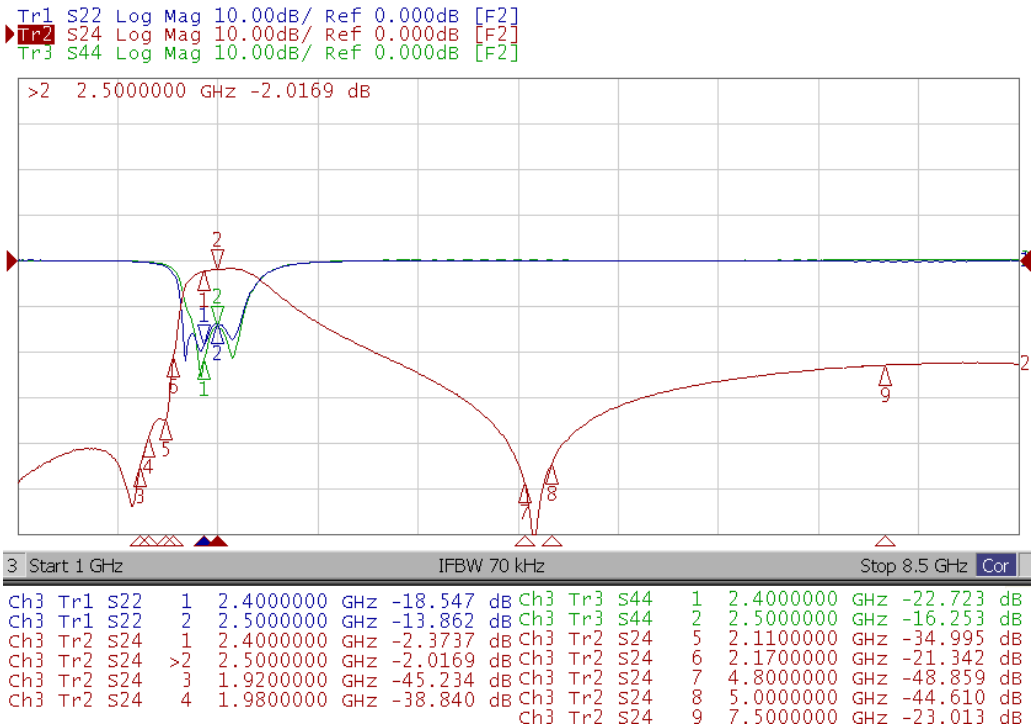


Fig. 3 Frequency Characteristics

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