

DATA SHEET

WIRELESS COMPONENTS

Low Pass Filter
LPF1608LL53R2400A

2.4-2.5 GHz
1608 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

LPF 1608 LL 53 R 2400A
 (1) (2) (3) (4) (5) (6)

(1) PRODUCT

LPF = Low Pass Filter

(2) SIZE

1608 = 1.6 × 0.8

(3) MATERIALS

Material Code LL

(4) TYPE

53 = Type 53

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

2400 = 2.4 GHz

PHYCOMP CTC

CFL411171553245k

I2NC

411171553245

SPECIFICATION

Table 1

| DESCRIPTION | VALUE |
|-----------------------|--|
| Pass Band | 2400-2500 MHz |
| Impedance | 50Ω |
| Insertion Loss | 0.48dB (Max) at 25°C 0.51 dB(Max) at -40~ 85 °C |
| VSWR | 1.5 (Max) |
| Attenuation | 35dB Min @ 4.8 to 5.0GHz 27dB Min @ 7.2 to 7.5GHz |
| Operating Temperature | -40 ~ 85 °C |

DIMENSIONS

Table 2 Machinical Dimension

| | DIMENSION |
|---------|------------|
| L (mm) | 1.60 ±0.15 |
| W (mm) | 0.80 ±0.15 |
| T (mm) | 0.65 ±0.15 |
| P1 (mm) | 0.30 ±0.15 |
| P2 (mm) | 0.30 ±0.15 |
| P3 (mm) | 0.30 ±0.15 |
| P4 (mm) | 0.30 ±0.15 |
| P5 (mm) | 0.30 ±0.15 |
| P6 (mm) | 0.30 ±0.15 |
| D1 (mm) | 0.10 ±0.05 |
| D2 (mm) | 0.25 ±0.10 |
| D3 (mm) | 0.15 ±0.10 |

OUTLINES

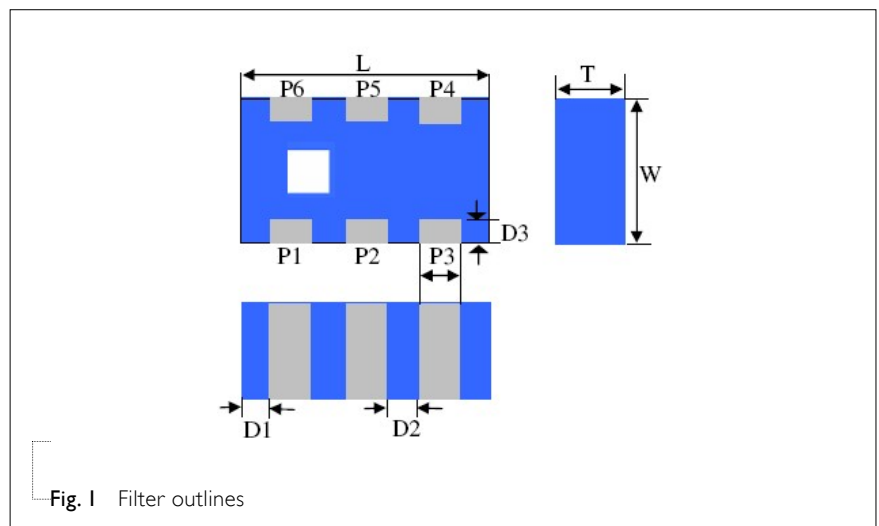
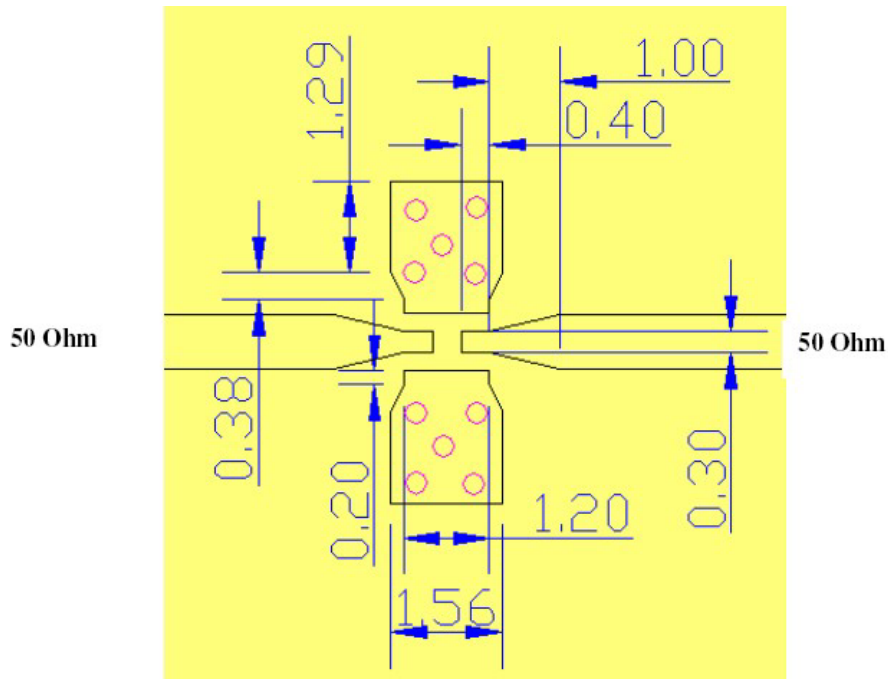


Table 3 Termination configuration

| TERMINAL NAME | FUNCTION |
|---------------|-----------------|
| P1 | Ground Terminal |
| P2 | I/O Terminal |
| P3 | Ground Terminal |
| P4 | Ground Terminal |
| P5 | I/O Terminal |
| P6 | Ground Terminal |



Unit: mm

Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMANCES

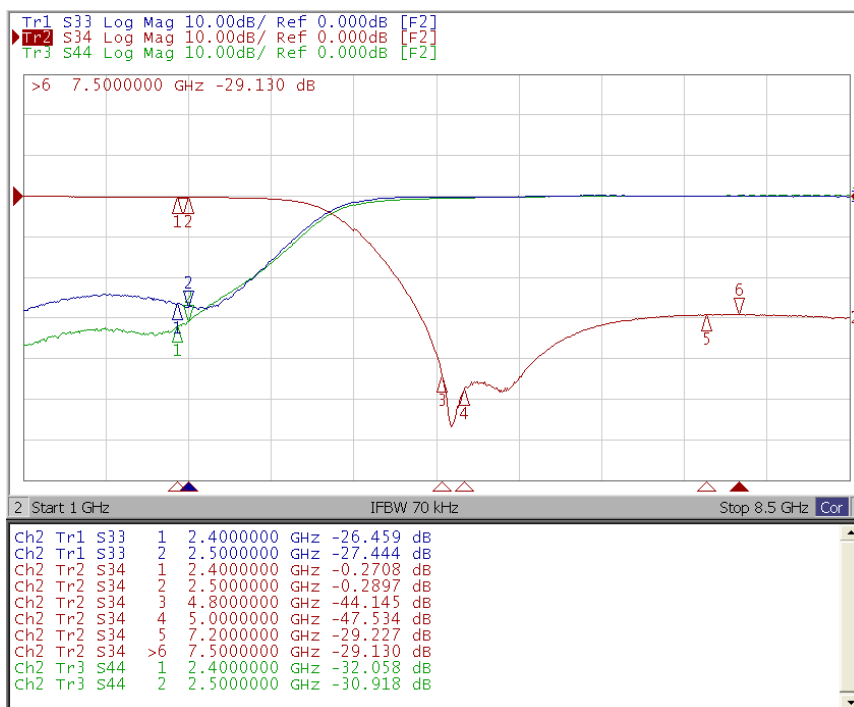


Fig. 3 Frequency Characteristics

REVISION HISTORY

| REVISION | DATE | CHANGE NOTIFICATION | DESCRIPTION |
|-----------|---------------|---------------------|---|
| Version 0 | Feb. 08, 2013 | - | - New data sheet for Low Pass Filter, 2.45 GHz application, I608 series |