

DATA SHEET

WIRELESS COMPONENTS

Low Pass Filter
LPF2012LM59RWPENA

0.8-2.0 GHz
2012 Series



FEATURES

- Compact size design
- RoHS compliant

APPLICATIONS

- WWAN, Penta-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 2012 LM 59 R WPENA
(1) (2) (3) (4) (5) (6)

(1) PRODUCT

LPF = Low Pass Filter

(2) SIZE

2012 = 2.0 × 1.2

(3) MATERIALS

Material Code LM

(4) TYPE

59 = Type 59

(5) PACKING STYLE

R = Tape and Reel

(6) WORKING FREQUENCY

WPEN = 1.8-2.02 GHz

PHYCOMP CTC

CFL411151459PEN4K

I2NC

411151459PEN

SPECIFICATION

Table 1

DESCRIPTION	VALUE
Pass Band	800-2025 MHz
Impedance	50Ω
Insertion Loss	0.5 dB(Max) at 800-1000 MHz(-40~85°C) 0.8 dB(Max) at 1700-1910 MHz(-40~85°C) 1.5 dB(Max) at 2010-2025 MHz(-40~85°C)
VSWR	2.0 (Max)
Attenuation	26dB Min @ 2.3 to 6.1GHz 35dB Min @ 3.4 to 3.82GHz
Operating Temperature	-40 ~ 85 °C

DIMENSIONS

Table 2 Machinal Dimension

	DIMENSION
L (mm)	2.00 ±0.15
W (mm)	1.25±0.10
T (mm)	0.90 ±0.10
P1 (mm)	0.28 ±0.10
P2 (mm)	0.60 ±0.10
P3 (mm)	0.28 ±0.10
D1 (mm)	0.17 ±0.10
D2 (mm)	0.25 ±0.10
D3 (mm)	0.15 ±0.10
D4 (mm)	0.95 ±0.10

OUTLINES

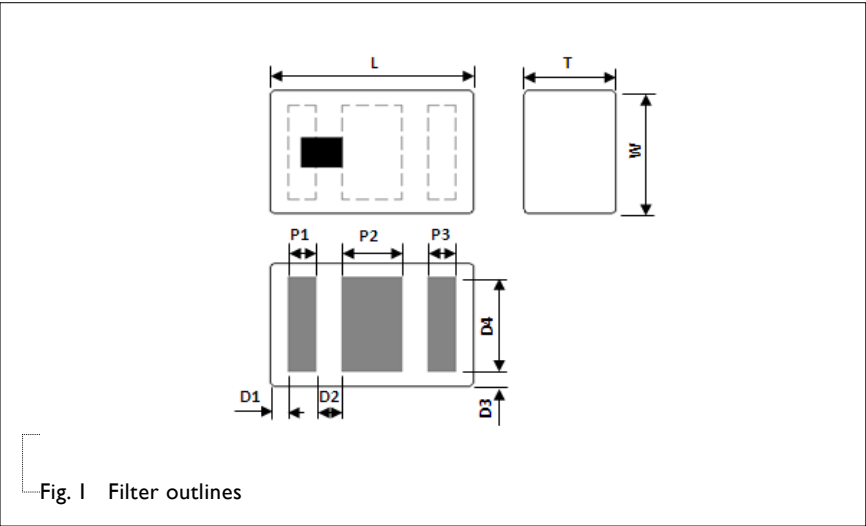
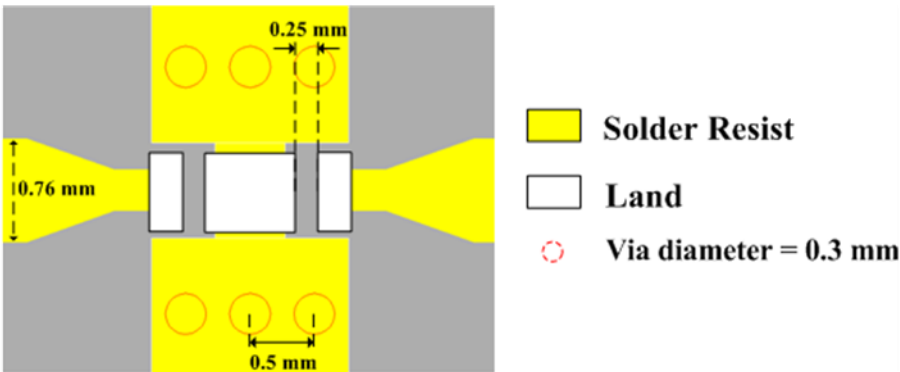


Fig. 1 Filter outlines

Table 3 Termination configuration

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



Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

Fig. 2 Reference design of evaluation board

ELECTRICAL PERFORMANCES

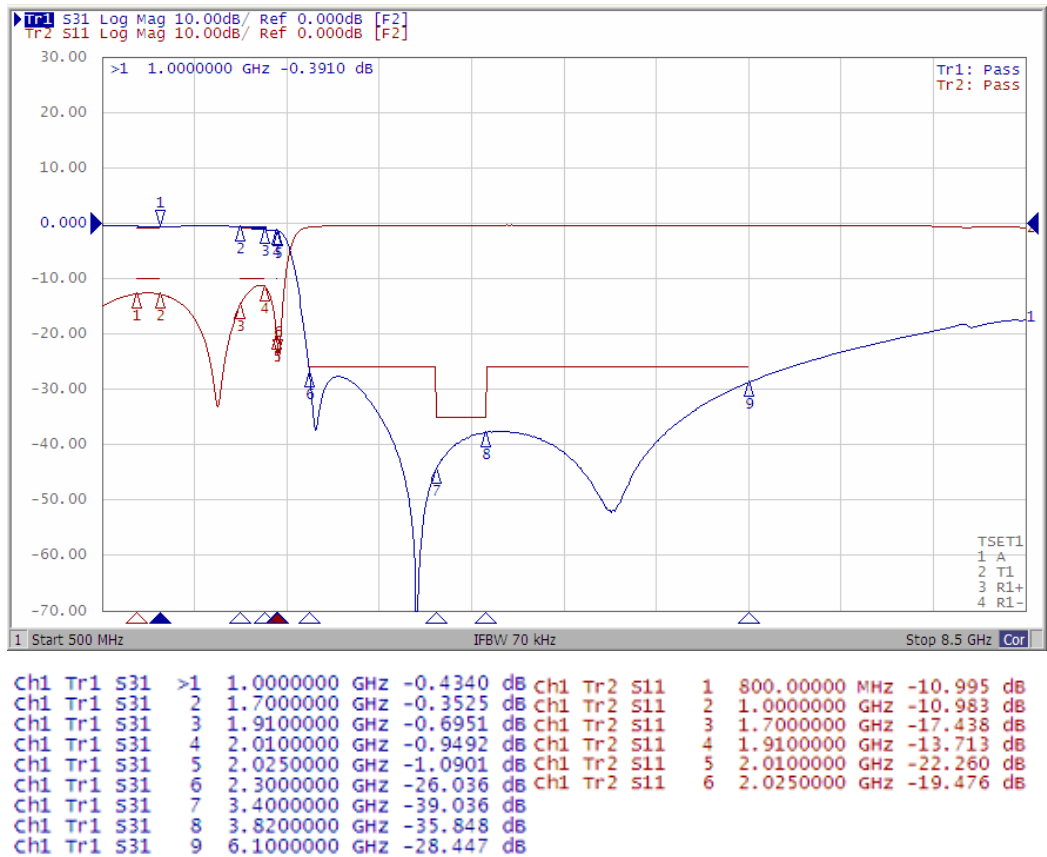


Fig. 3 Frequency Characteristics

REVISION HISTORY

REVISION	DATE	CHANGE NOTIFICATION	DESCRIPTION
Version 0	Jul. 28, 2015	-	- New data sheet for Low Pass Filter, 0.8-2.0 GHz application, 2012 series