

**Description: 2012 1.71-2.17GHz Low Pass Filter**

**PART NUMBER: LPF2012LM58R1721A**

**Features:**

- Compact size : 2.00x1.25x0.90mm
- RoHS compliant

**Applications:**

- WWAN, Penta-Band

**ELECTRICAL SPECIFICATIONS**

DESCRIPTION	Value
Pass Band	1710~2170 MHz
Impedance	50Ω
Insertion Loss	0.40 dB(Max) at 1710-1980 MHz at 25°C 0.45 dB(Max) at 1980-2025 MHz at 25°C 0.80 dB(Max) at 2025-2170 MHz at 25°C
V.S.W.R	2.0(Max)
Attenuation	15dB Min @ 2400~2500 MHz 9dB Min @ 3840~4050 MHz 15dB Min @ 5130~6075 MHz
Operating Temperature	-40 ~ 85°C

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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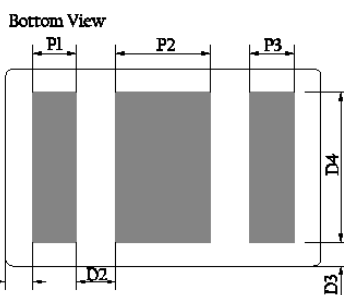
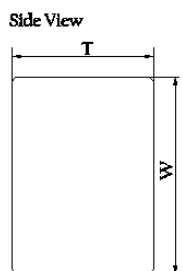
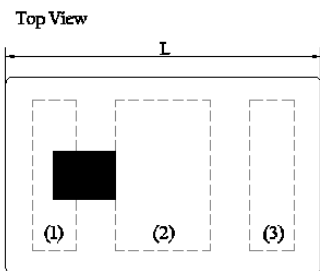
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**MECHANICAL DIMENSION**

**Outline**



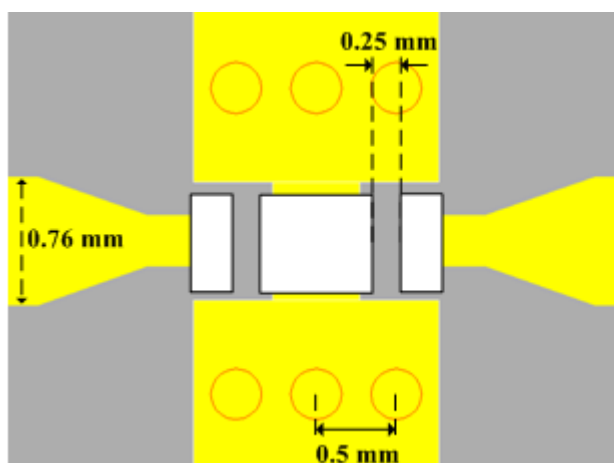
**Termination**

Terminal name	function
P1	Input
P2	GND
P3	Output

**Mechanical**

	Dimension
L (mm)	2.00 ±0.15
W (mm)	1.25 ±0.15
T (mm)	0.90 ±0.15
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

**Reference design of EVB**



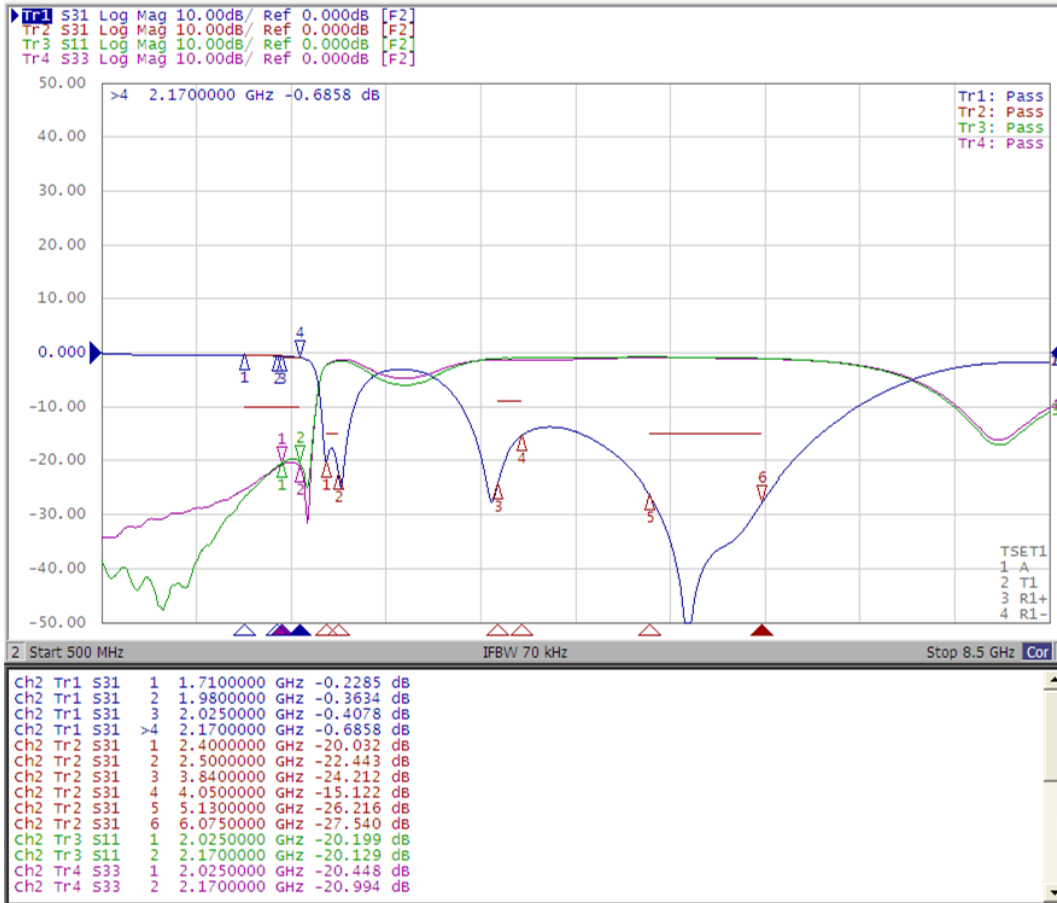
- Solder Resist
- Land
- Via diameter = 0.3 mm

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

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**ELECTRICAL PERFORMANCES**



- Measured on Agilent E5071C Network Analyzer
- Input port : Port 1 (Return loss : S11)
- Output port : Port 3 (Insertion loss : S31)

Frequency Characteristics

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### REVISION HISTORY

Revision	Date	Description
Version 1	Nov. 23, 2020	- New issue