

**Description**: 1005 2.3G-2.7GHz Low Pass Filter

PART NUMBER: LPF1005LM52R2500A

Features:

**Applications:** 

Compact size : 1.0x0.5x0.35mm

• LTE(0.7-2.7GHz)

· RoHS compliant

## **ELECTRICAL SPECIFICATIONS**

DESCRIPTION	Value		
Pass Band	2400-2700 MHz		
Impedance	50Ω		
Insertion Loss	0.7 dB (Max.) at 25°C		
V.S.W.R / Return Loss	2.0 (Max) / 10dB (Min.)		
Attonuction	25 dB Min@ 4880 ~ 5400 MHz		
Attenuation	25 dB Min@ 7200 ~ 8100 MHz		
Operating Temperature	-40 ~ +85℃		

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



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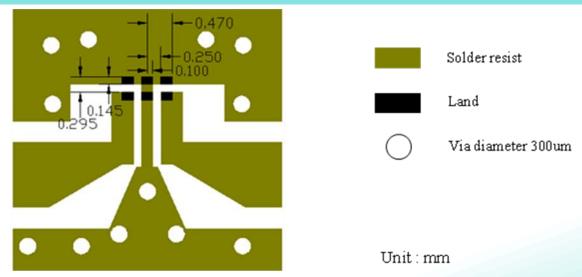
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## **MECHANICAL DIMENSION**

<u>Outline</u>		<u>Termination</u>		<u>Mechani</u>	<u>cal</u>
Top View	Side View	Terminal name	function		Dimension
L	<del>- T-</del>			L (mm)	1.00±0.10
[		(1)	In/Out	w (mm)	$0.50 \pm 0.10$
[(5)] [(4)]		(2)	GND	T (mm)	$0.35 \pm 0.10$
[1) [2] [3]		(3)	In/Out	P1 (mm)	$0.18 \pm 0.05$
	<u> </u>	(4)	NC	P2 (mm)	$0.18 \pm 0.05$
Bottom View		(5)	GND	P3 (mm)	$0.18 \pm 0.05$
P4 P5 P6		(6)	NC	P4 (mm)	$0.18 \pm 0.05$
		(0)	110	P5 (mm)	$0.18 \pm 0.05$
				P6 (mm)	$0.18 \pm 0.05$
				D1 (mm)	$0.18 \pm 0.05$
P3 P2 P1				D2 (mm)	$0.125 \pm 0.05$
<u>  D1                                   </u>				D3 (mm)	$0.15 \pm 0.05$

# Reference design of EVB



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

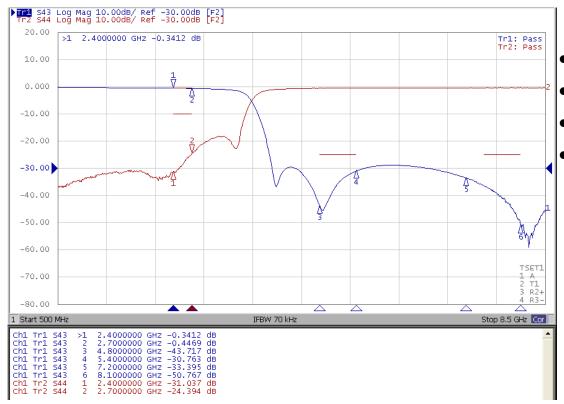
ROHS



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## **ELECTRICAL PERFORMANCES**



- Measured on Agilent E5071C Network Analyzer
- Input port : Port 1 (Return loss : S11)
- Output port : Port 2 (Return loss : S33)
- Insertion loss: S31

Frequency Characteristics



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REVISION HISTORY				
Revision	Date	Description		
Version 1	Oct. 07, 2020	- New issue		