

**Description: 1005 5GNR-n79 Band Pass Filter**

**PART NUMBER: BPF1005LRPQR4700L**

**Features:**

- Compact size : 1.0x0.5x0.32mm
- RoHS compliant

**Applications:**

- WWAN
- 5GNR

**ELECTRICAL SPECIFICATIONS**

DESCRIPTION	Value
Pass Band	4400~5000 MHz
Insertion Loss	1.74 (typ.) 2.5 dB max.
Return Loss	17.5 (typ.) 14 dB (Min.)
Attenuation	42.2dB Typ./ 30dB Min. @ 600~960 MHz 38.5dB Typ./ 33dB Min. @ 1164~1300 MHz 39.9dB Typ./ 30dB Min. @ 1476~1511 MHz 39.6dB Typ./ 30dB Min. @ 1559~1610 MHz 39.9dB Typ./ 30dB Min. @ 1805~2200 MHz 51.4dB Typ./ 37dB Min. @ 2300~2690 MHz 35.2dB Typ./ 25dB Min. @ 3055~3490 MHz 29.6dB Typ./ 15dB Min. @ 3490~3600 MHz -dB Typ./ 3 dB Min. @ 5490~5670 MHz 3 dB Typ./ 6 dB Min. @ 5670~5875 MHz 13.8dB Typ./ 7 dB Min. @ 5875~6100 MHz 22.5dB Typ./ 15dB Min. @ 6100~6980 MHz 39.1dB Typ./ 25dB Min. @ 8800~10000 MHz 22.4dB Typ./ 15dB Min. @ ref 13200~15000 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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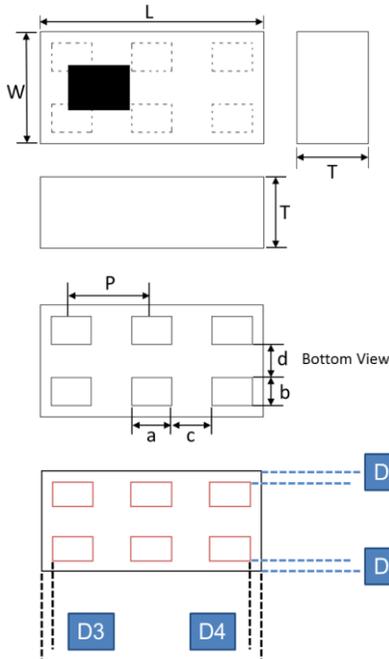


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**MECHANICAL DIMENSION**

**Outline**

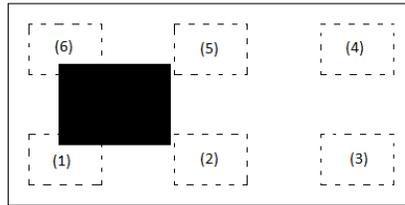


**Termination**

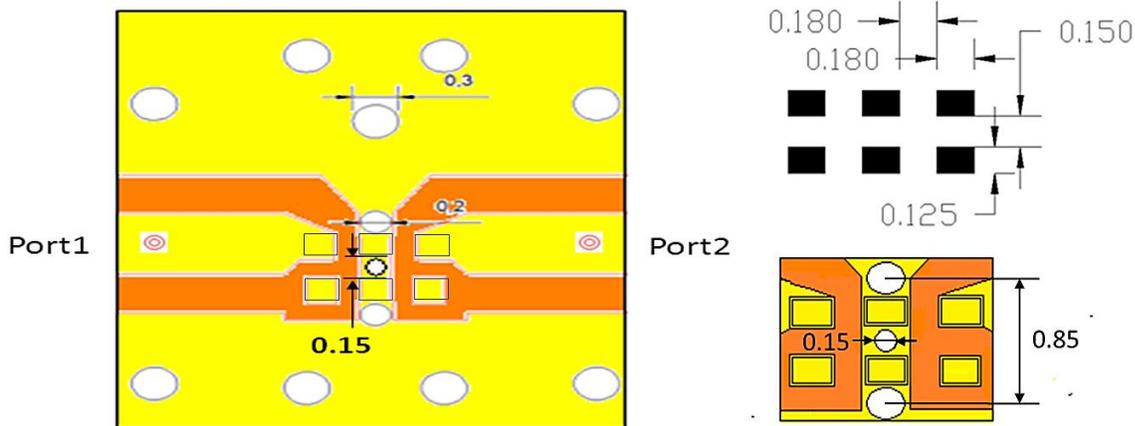
Terminal name	Function
P1	Input
P2	GND
P3	Output
P4	NC
P5	GND
P6	NC

**Mechanical**

Dimension	Value
L (mm)	1.00±0.05
W (mm)	0.50±0.05
T (mm)	0.32(Max.)
a (mm)	0.18±0.05
b (mm)	0.125±0.05
c (mm)	0.18±0.05
d (mm)	0.15±0.05
e (mm)	0.36±0.05
D1-D2	0±0.04
D3-D4	0±0.04



**Reference design of EVB**



The via can suppress harmonics

Unit : mm

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

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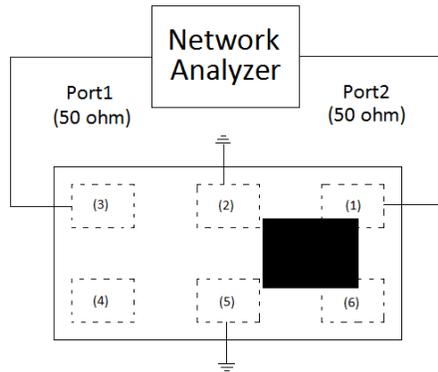
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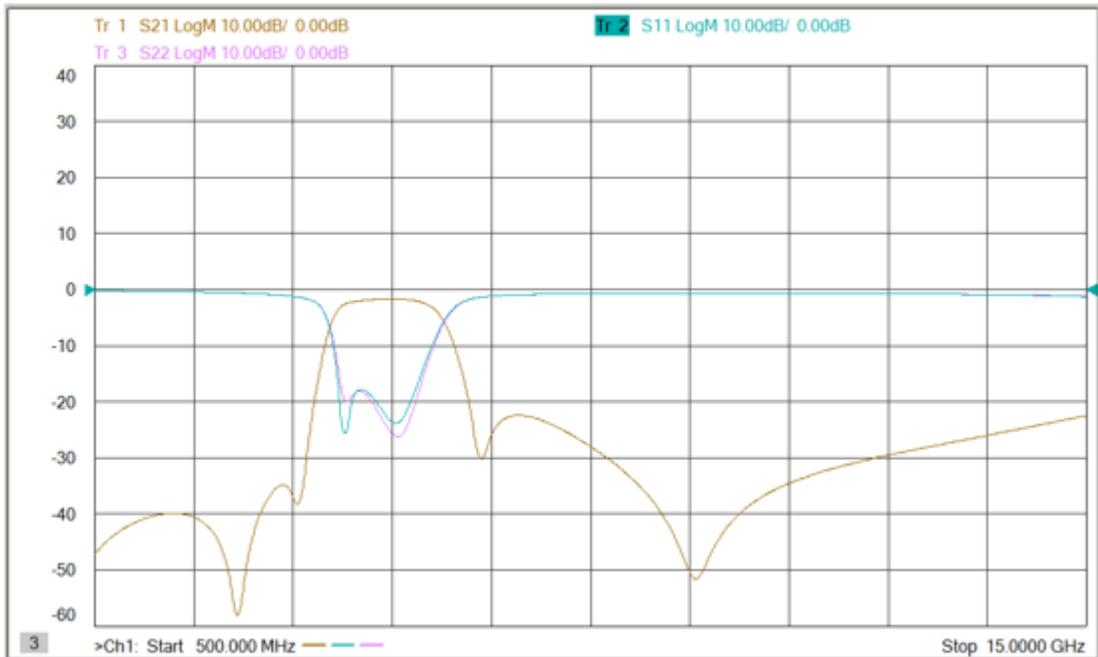
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**MEASURING DIAGRAM**



Test Instrument :  
Agilent E5071A Network Analyzer.

**ELECTRICAL PERFORMANCES**



- Measured on Agilent E5071C Network Analyzer

Frequency Characteristics

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### REVISION HISTORY

Revision	Date	Description
Version 1	Dec. 29, 2021	- New issue