TECHNICAL DATA SHEET

Description: 1005 5GNR-n77 Band Pass Filter

PART NUMBER: BPF1005LRPKR3750L

Features:

- Compact size : 1.0x0.5x0.38mm
- RoHS compliant

Applications:

- WWAN
- 5GNR-n77

ELECTRICAL SPECIFICATIONS

Item	Frequency Range(MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	3300~4200	-	1.60	1.80
Insertion Loss (dB) at -40~85°C	3300~4200	-	-	2.30
Return Loss (dB)	3300~4200	15	21.0	-
Attenuation (dB)	600~1610	40	42.6	-
	1710~1785	38	48.0	-
	1780~1860	48	54.0	-
	1805~2200	30	39.5	-
	2300~2620	25	36.1	-
	2620~2690	20	33.8	-
	5150~5850	20	22.5	-
	5850~6600	20	22.7	-
	6600~7600	25	27.1	-
	7600~8400	20	36.6	-
	9900~12600	10	26.8	-
	13200~18000	10 (Ref.)	15.0	-

Operating Temperature Range：-40~85°C
Power Capacity：3W max.

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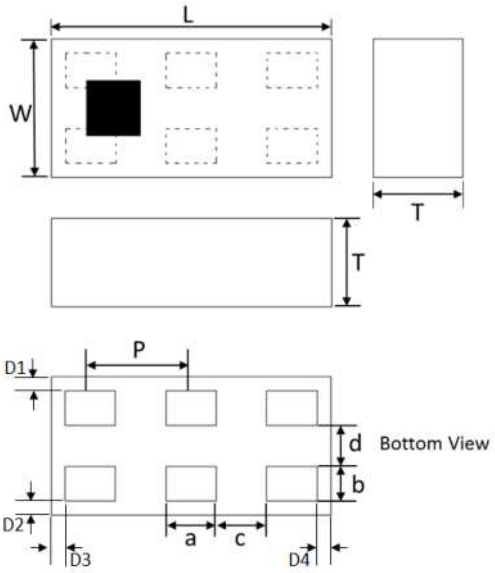
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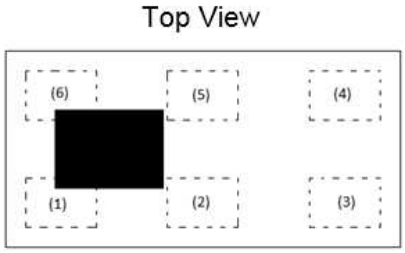
MECHANICAL DIMENSION

Outline



Termination

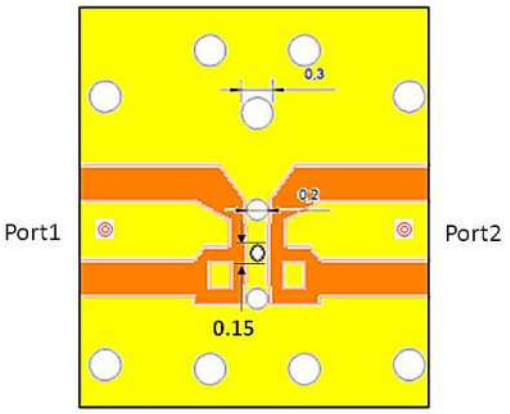
Terminal name	Function
P1	NC
P2	GND
P3	NC
P4	Output
P5	GND
P6	Input

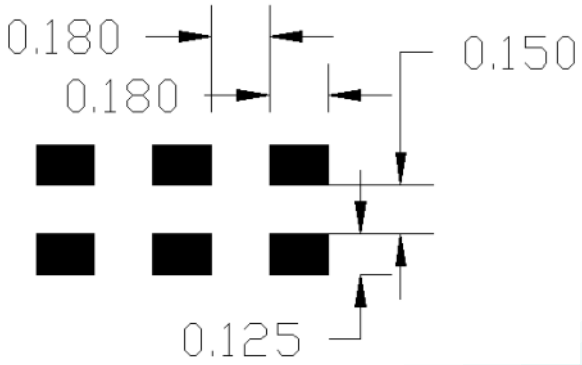


Mechanical

	Dimension
L (mm)	1.00±0.05
W (mm)	0.50±0.05
T (mm)	0.38(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 (mm)	0±0.04
D3-D4 (mm)	0±0.04

Reference design of EVB





Unit：mm

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

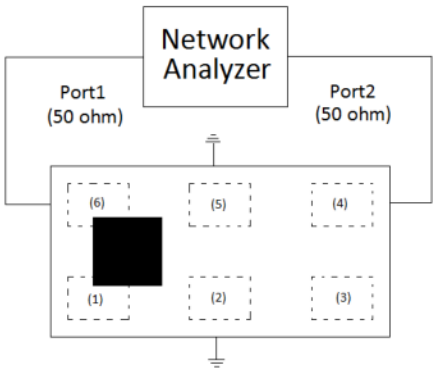
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RoHS COMPLIANT

Description: 1005 5GNR-n77 Band Pass Filter

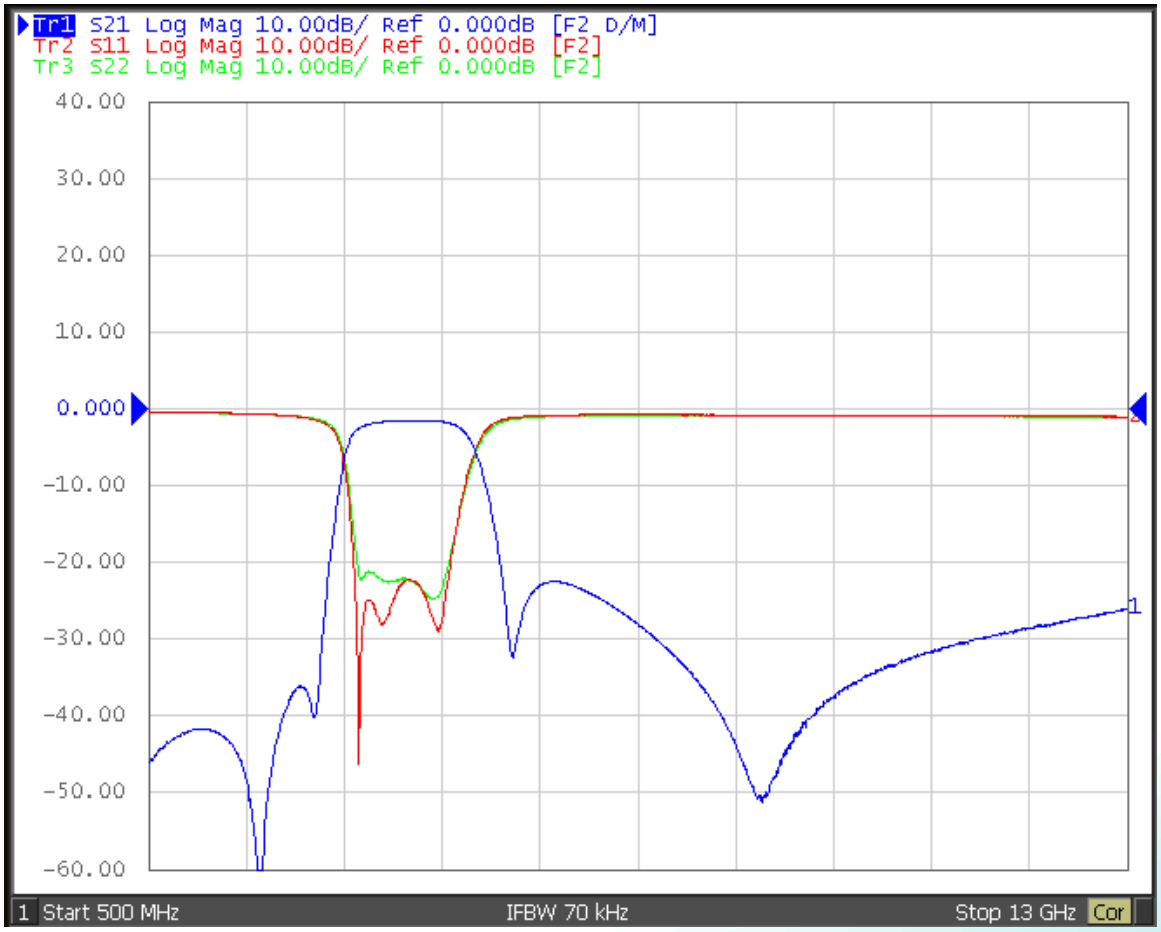
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MEASURING DIAGRAM



Test Instrument：
Agilent E5071C Network Analyzer or equivalent.

ELECTRICAL PERFORMANCES



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RoHS COMPLIANT

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REVISION HISTORY

Revision	Date	Description
Version 1	Jul. 14, 2022	- New issue
Version 2	Aug.11, 2022	- Update electrical requirements.

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