

Technical Proposal for JX-LPF1-140M175M-40NMF Cavity Filter

- ◆ High Performance
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/11/18	Wang	Created	/

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1. Mechanical specification

Table 1 Mechanical specifications @ JX-LPF1-140M175M-40NMF

Dimension	L x W x H:59mm x 39.5mm x 28mm
Connectors	N-Male / N-Female
Material	Aluminium
Finish	Grey Painting
Notes	Material shall be RoHS 6/6

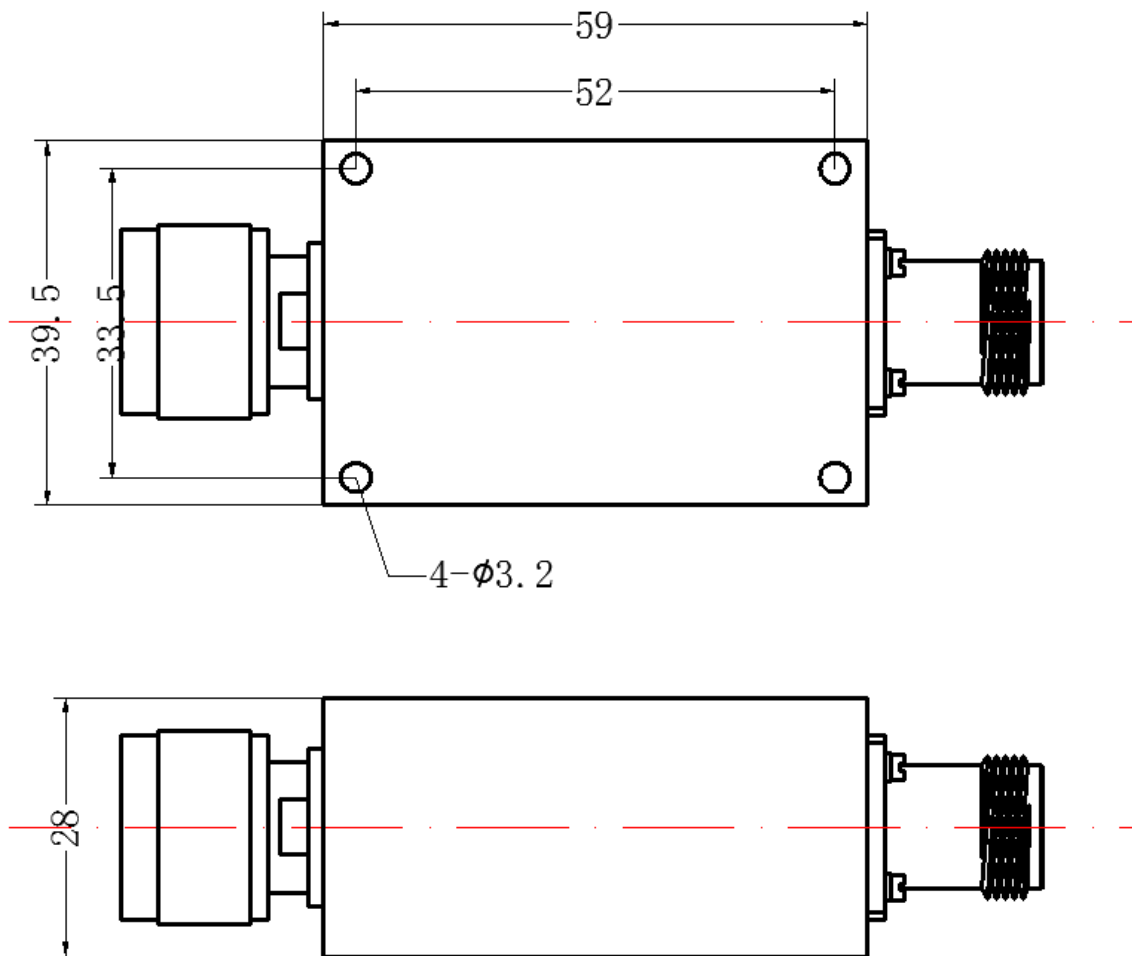


Figure 1 JX-LPF1-140M175M-40NMF front panel layout

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2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications @ JX-LPF1-140M175M-40NMF

Item	Parameter	Specifications
1	Frequency range	140M-175MHz
2	Insertion loss	≤0.2dB
3	VSWR	≤1.5
4	Rejection	≥40dB @ 280-525MHz
5	Power handling	≤150W CW
6	Impedance	50Ω
7	Operating temperature	-30°C to +70°C
8	Storage temperature	-40°C to +70°C

2.2 The simulation curve



Figure 2 The simulation curve of the filter

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