

Technical proposal for JX-CF1-24G40G-9J45 Cavity Filter

- ◆ Low Insertion Loss
- ◆ High Rejection
- ◆ Small Volume
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2022/02/16	Sam Chen	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-24G40G-9J45

Dimension	LxWxH: 30.6mm x 18.5mm x 7mm
Port connectors	2.92mm-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

2.92mm-Female

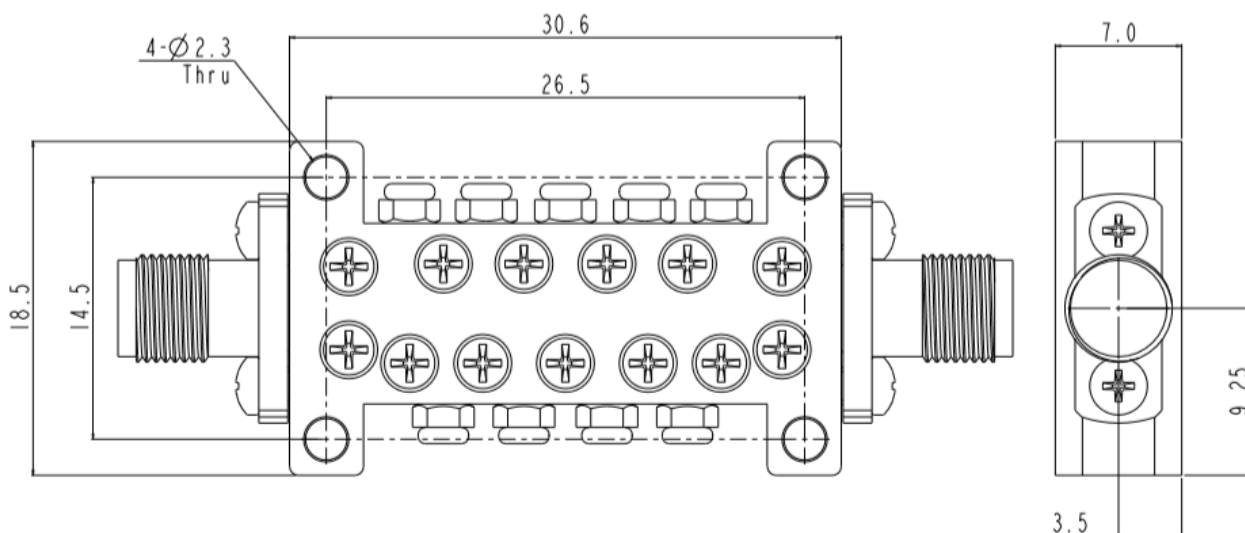


Figure 1 JX-CF1-24G40G-9J45 front panel layout

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2. Electrical analysis

2.1 Schematic diagram of the Filter

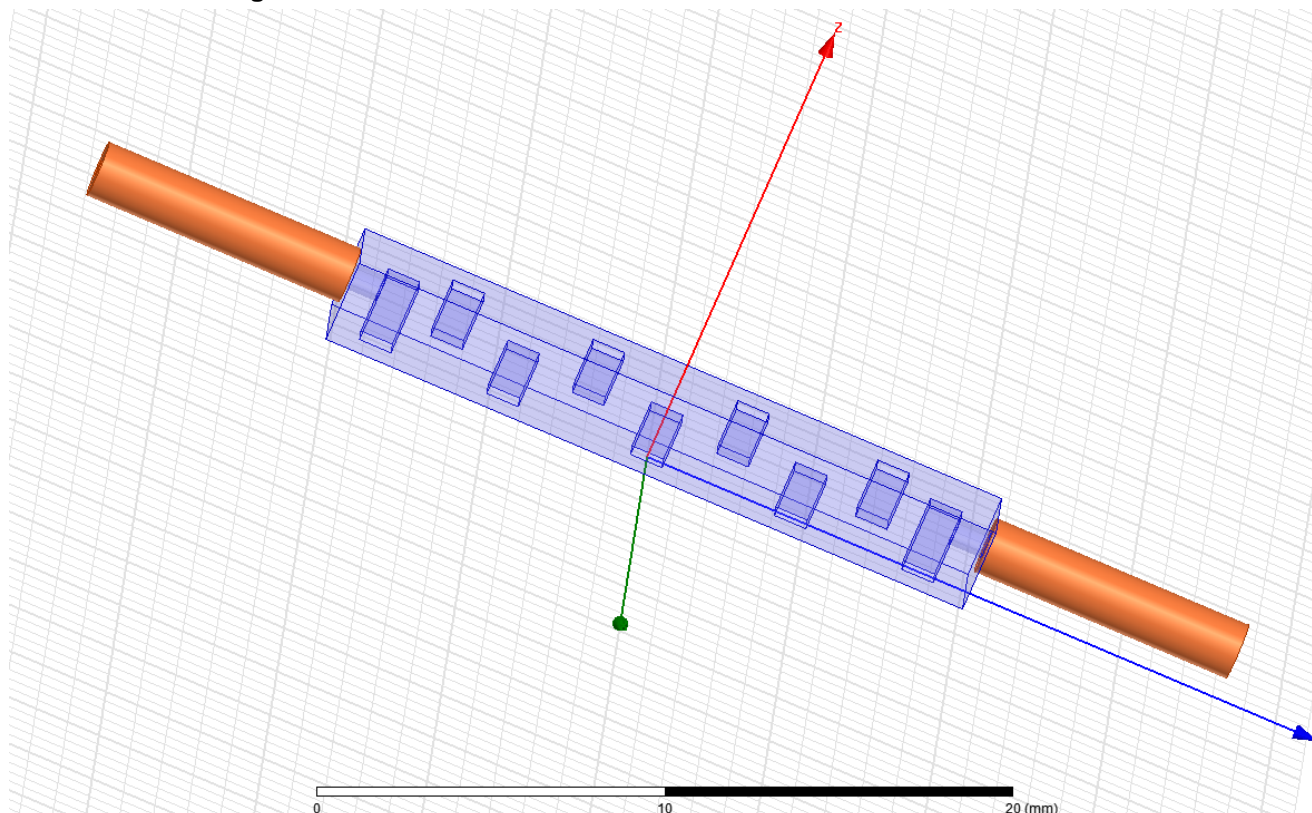


Figure 2 Toplogy of the Filter

2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-24G40G-9J45

Item	Parameter	
1	Frequency range	24-40 GHz
2	Return Loss	$\geq 9.5\text{dB}$
3	Insertion loss	$\leq 1.5\text{ dB}$
4	Rejection	$\geq 45\text{dB@DC-20GHz}$
5	Max power	30dBm
6	Impedance	50 Ω

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2.3 The simulation curve

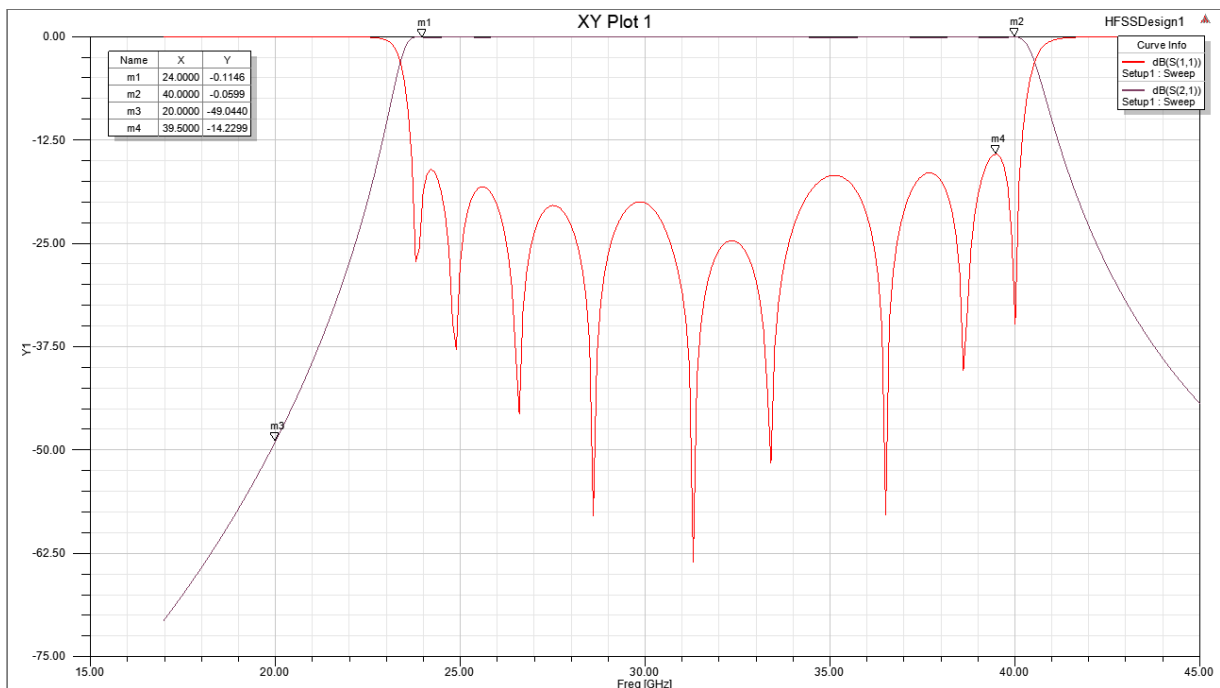
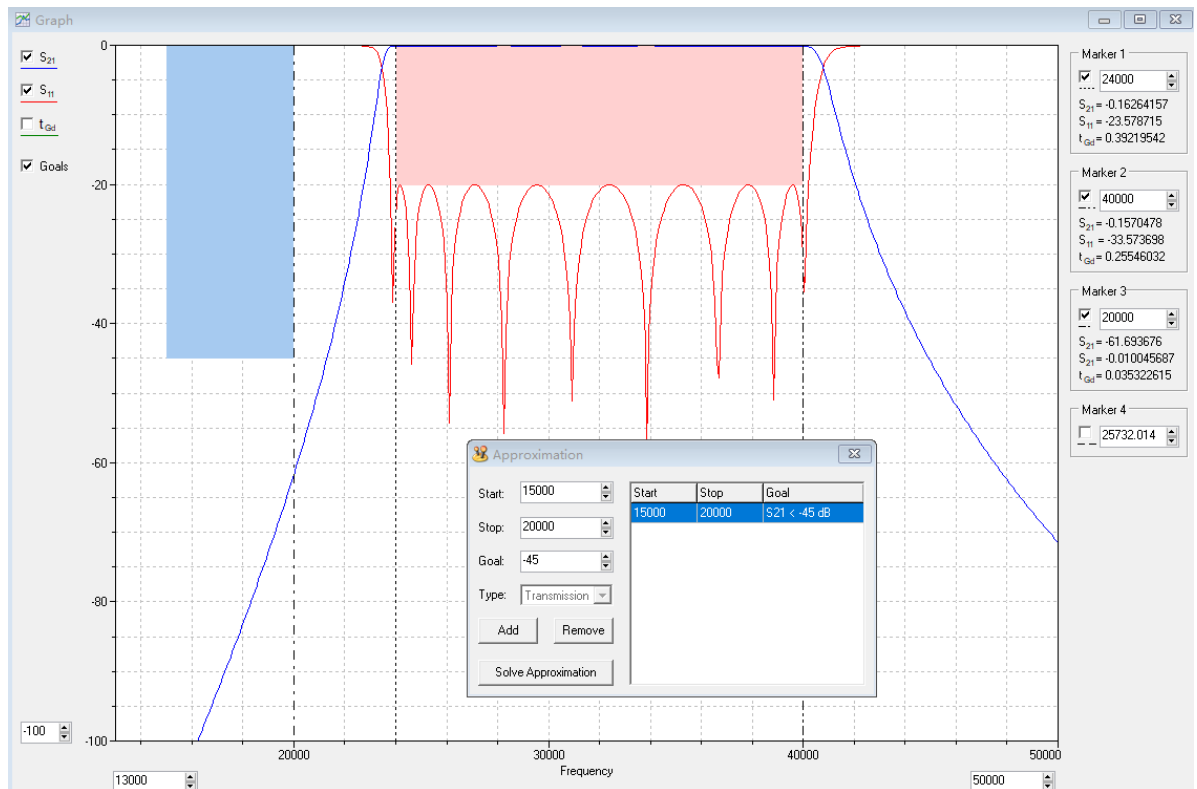


Figure 3 The simulation curve of the Filter

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