

# Technical proposal for JX-CF1-3.4G4.8G-13J Cavity Filter

◆ High Performance

◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/05/20	Lee	Created	/

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## 1. Mechanical layout

Table 1 Mechanical specification @ JX-CF1-3.4G4.8G-13J

Dimension	L x W x H: 132.2mm x 25mm(Max 30mm) x 18mm
Port connectors	SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

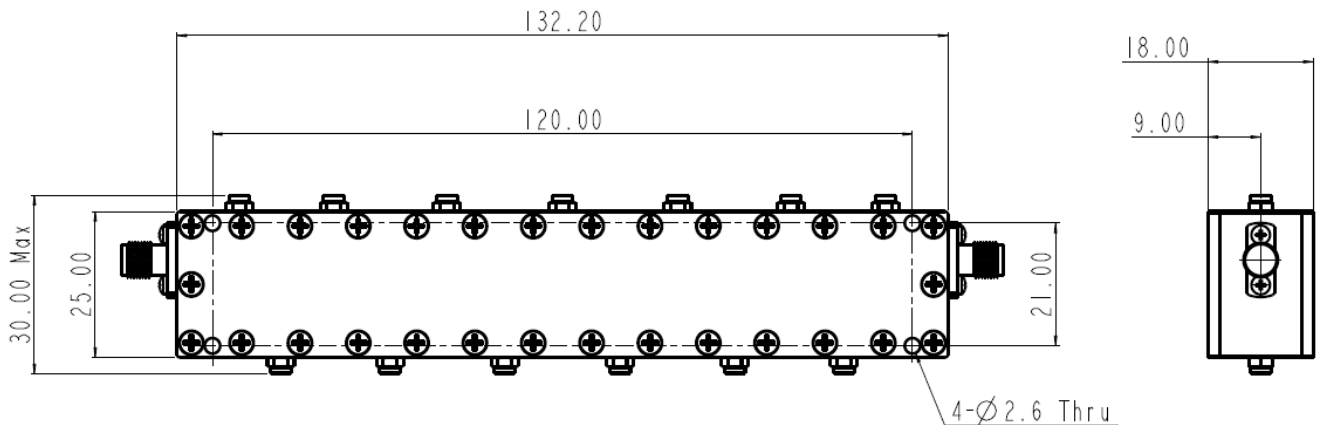


Figure 1 JX-CF1-3.4G4.8G-13J front panel layout

## 2. Electrical analysis

### 2.1 Electrical specification

Table 2 Electrical specification @ JX-CF1-3.4G4.8G-13J

Item	Frequency band	3.4-4.8GHz
1	Center frequency	4.1GHz
2	Bandwidth	1.4GHz
3	Return loss	≥12dB
4	Insertion loss	≤1.0dB
5	Ripple in bands	≤0.5dB
6	Rejection	≥55dB @ DC-2.7GHz ≥55dB @ 5.15-8.0GHz

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2.2 The simulation curve

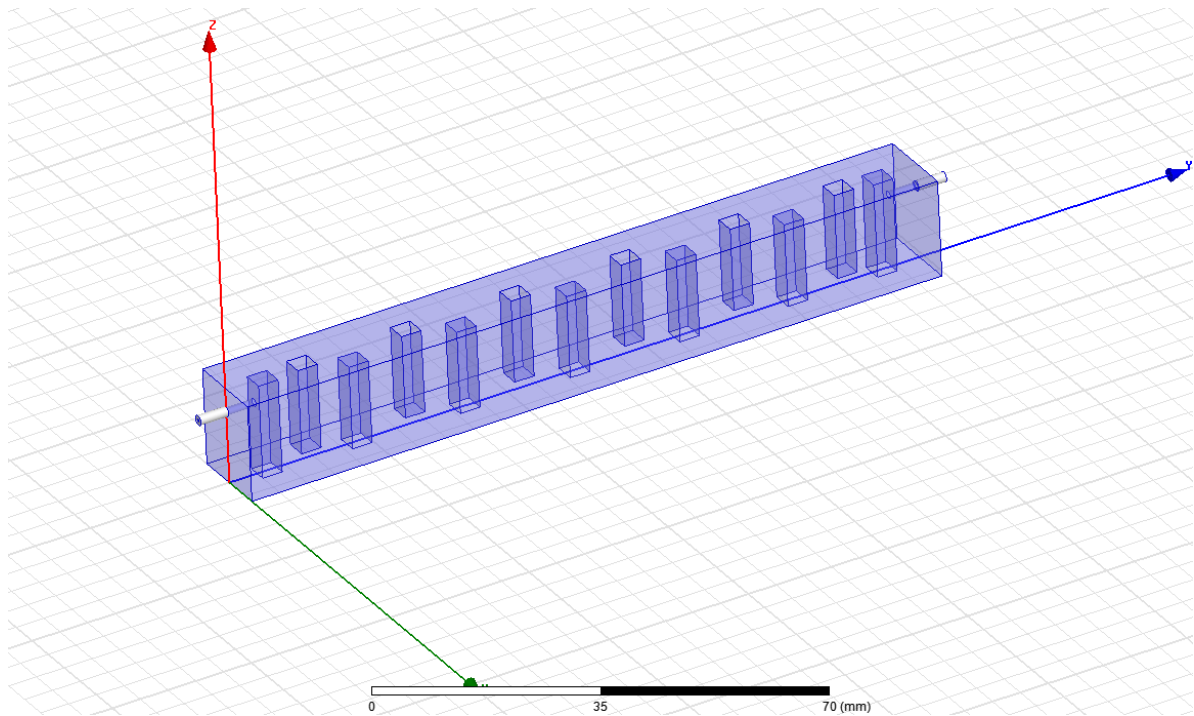


Figure 2 The simulation 3D model of the filter

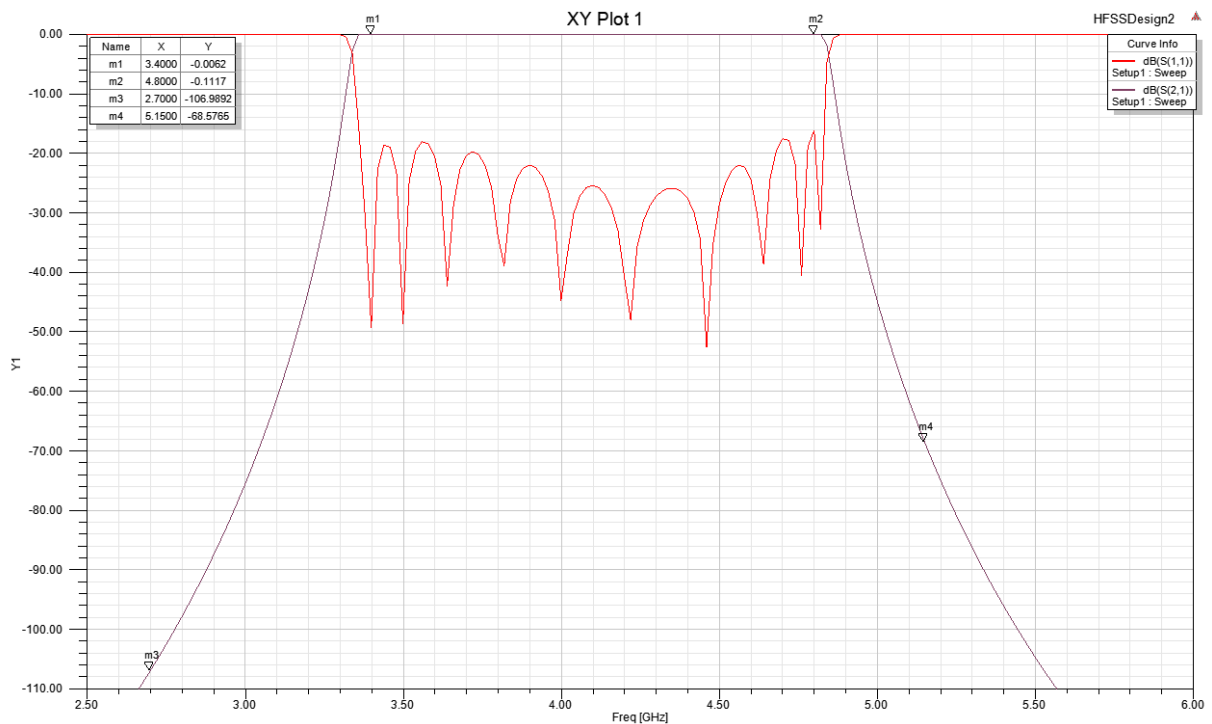


Figure 3 The simulation curve of the filter

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