

Technical proposal for JX-CF1-30G40G-15J Cavity Filter

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

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/04/25	Sam Chen	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-30G40G-15J

Dimension	LxWxH: 51mm x 17.5mm x 7.5mm
Port connectors	SMA(2.92mm)-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

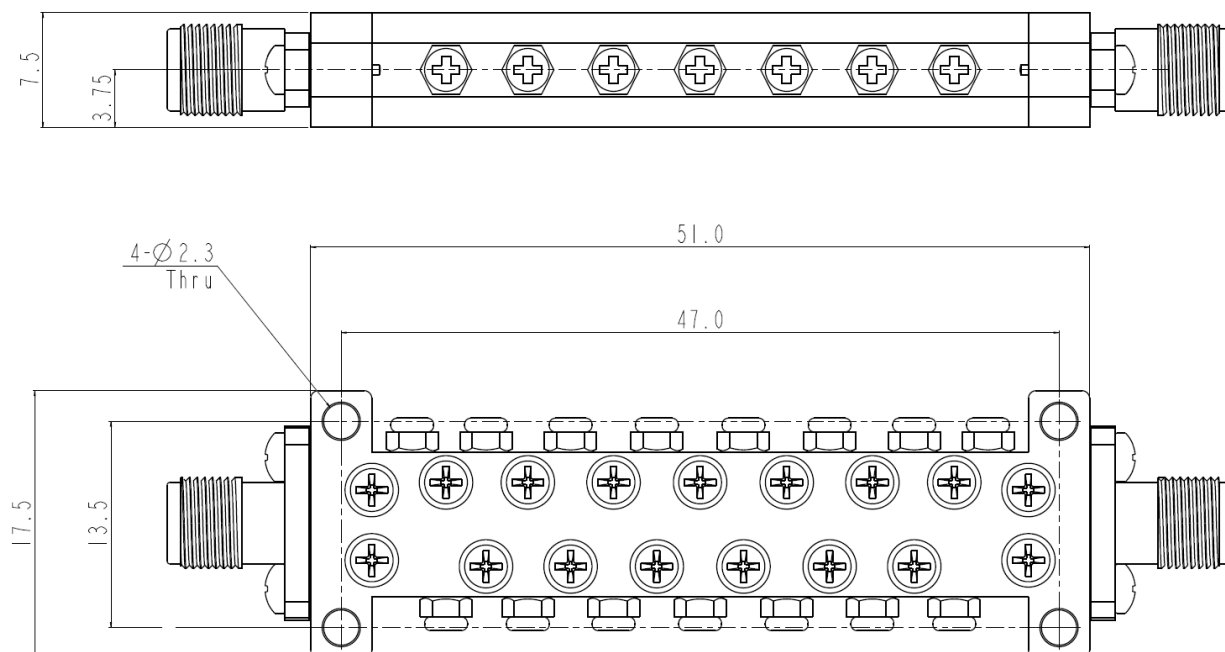


Figure 1 JX-CF1-30G40G-15J front panel layout

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2. Electrical analysis

2.1 Schematic diagram of the Filter

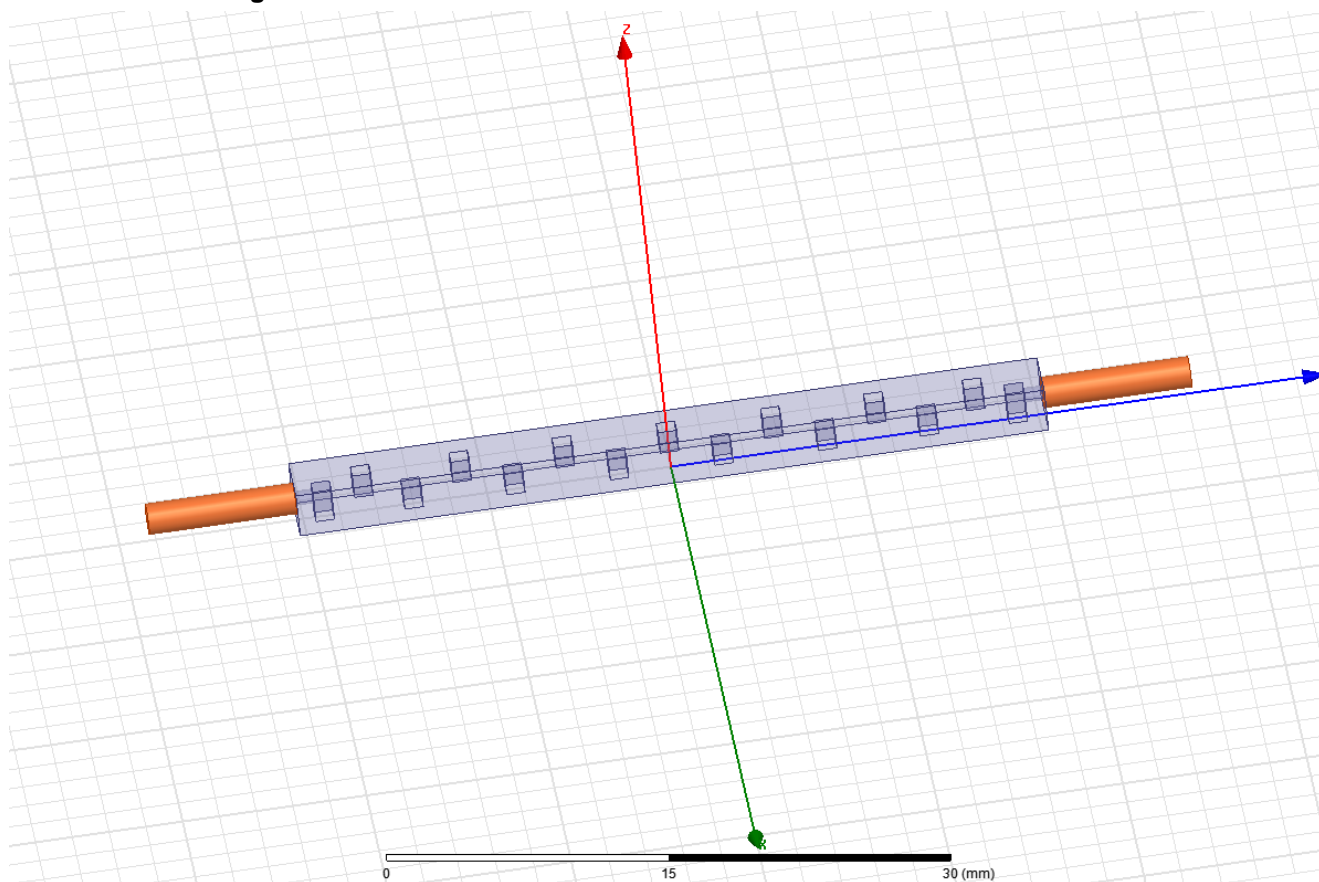


Figure 2 Toplogy of the Filter

2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-30G40G-15J

Item	Parameter		
1	Frequency range	30GHz-40 GHz	
2	VSWR	$\leq 1.9:1$	
3	Insertion loss	≤ 2.0 dB	
4	Rejection	≥ 30 dB@DC-29GHz	≥ 30 dB@41GHz
5	Max power	30dBm	
6	Impedance	50 Ω	

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2.3 The simulation curve

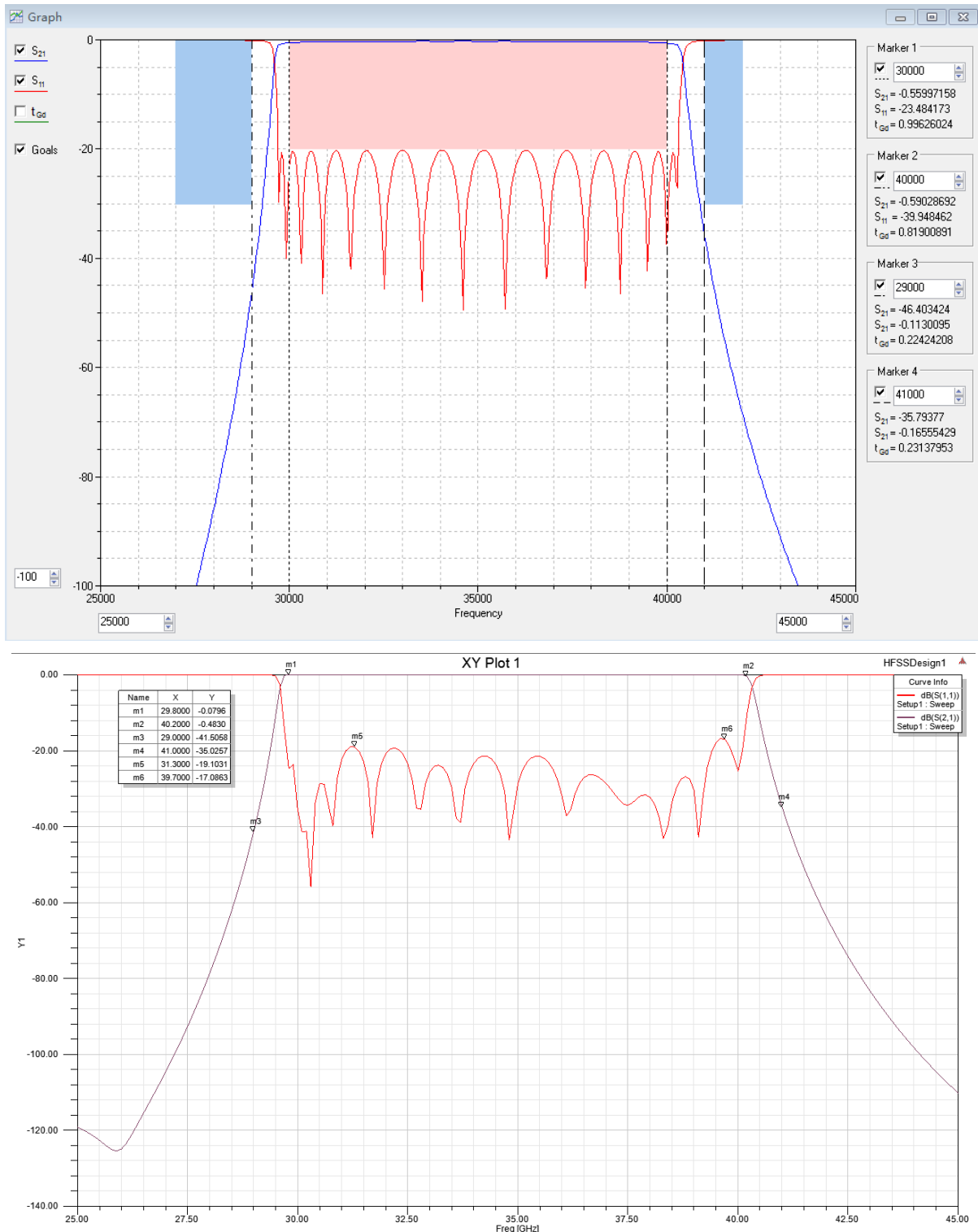


Figure 3 The simulation curve of the filter

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