

Technical proposal for JX-CF1-14G20G-13J Cavity Filter

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/03/28	Lee	Created	/
V1.1	2018/04/18	Lee	Update the dimension of the filter	/

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CF1-14G20G-13J

Dimension	LxWxH: 58.55mm x 10mm x 13.5mm (Max 15.5mm)
Port connectors	SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

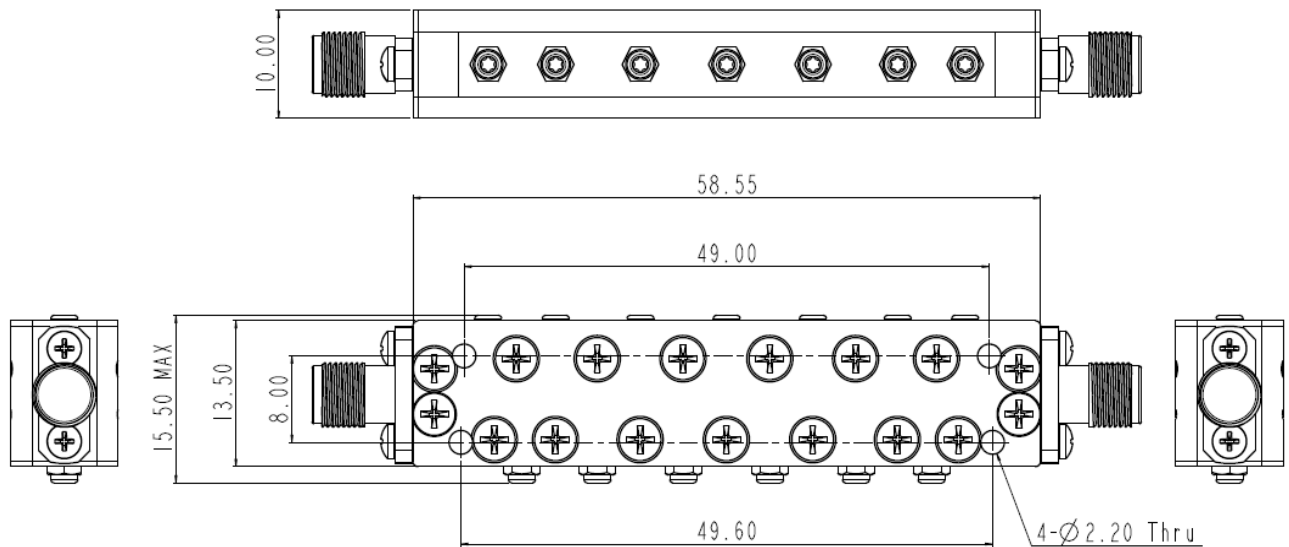


Figure 1 JX-CF1-14G20G-13J front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-14G20G-13J

Item	Frequency Band	14.0-20.0GHz
1	Center Frequency	17.0GHz
2	Bandwidth	6.0GHz
3	Return Loss	≥12dB
4	Insertion loss	≤3.0dB
5	Ripple In Bands	≤0.5dB
6	Rejection	≥55dB @ 0-10.0GHz ≥55dB @ 22.0-30.0GHz

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2.2 The simulation curve

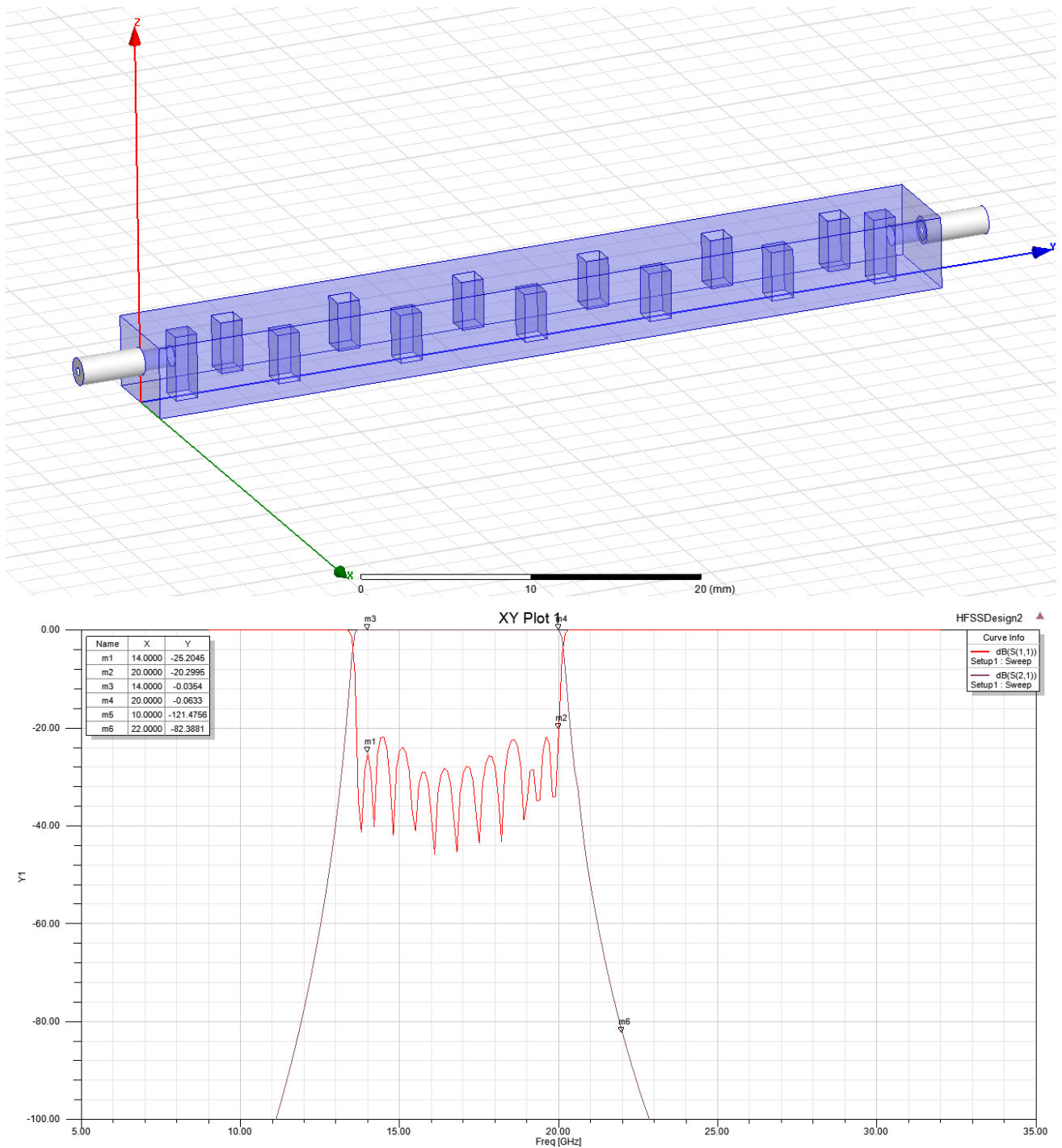


Figure 2 The simulation curve of the Filter

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