

Technical Proposal for JX-CF1-12.6G16.5G-30S3 Cavity Filter

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2023/02/22	Lee	Created	/
V1.1	2023/02/24	Lee	Updated rejection	/

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JING XIN MICROWAVE TECHNOLOGY CO.,LTD

E-mail: sales@cdjx-mw.com Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-12.6G16.5G-30S3

Dimension	L x W x H: 94.6mm x 16mm x 9mm (Max12mm)
Port connectors	SMA-Male / SMA-Female
Finish	Black spray paint
Notes	Material shall be RoHS 6/6

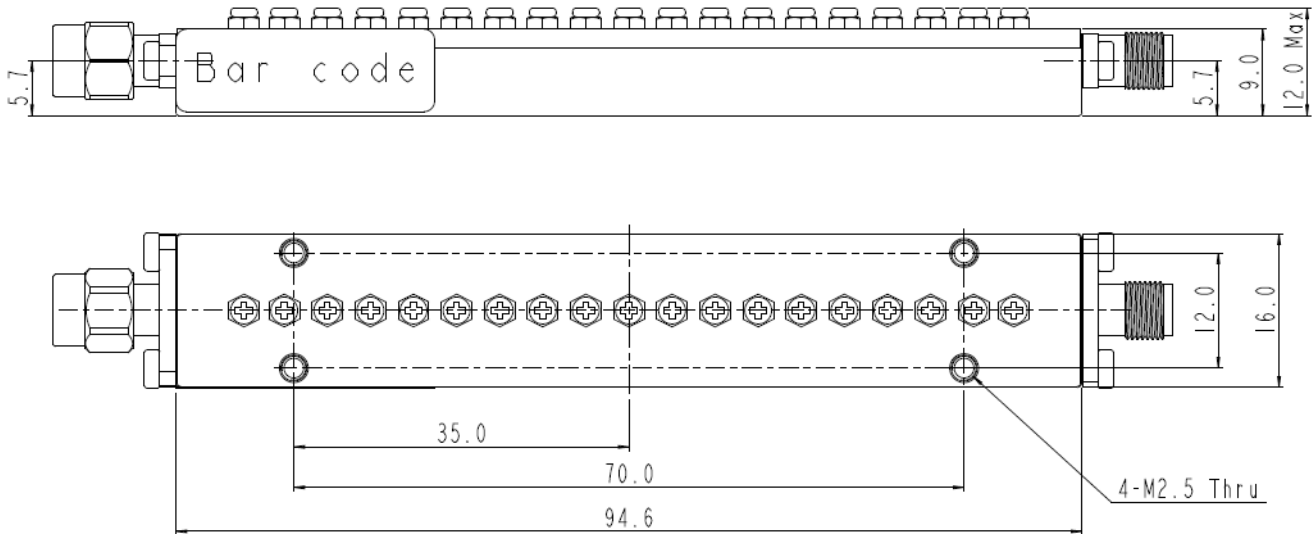


Figure 1 JX-CF1-12.6G16.5G-30S3 front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-12.6G16.5G-30S3

Item	Parameter	Specification
1	Frequency range	12.6-16.5GHz
2	Return loss	≥15dB (type18dB)
3	Insertion loss	≤2.0dB
4	Ripple in band	≤1.5dB
5	Rejection	≥80dB @ DC-11.1GHz ≥25dB @ 11.1-12.4GHz ≥30dB @ 16.85-17.1GHz ≥80dB @ 17.1-25GHz

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6	Temperature range	-30°C to +70°C
7	Power	5W
8	Impedance	50Ω

2.2 The simulation curve

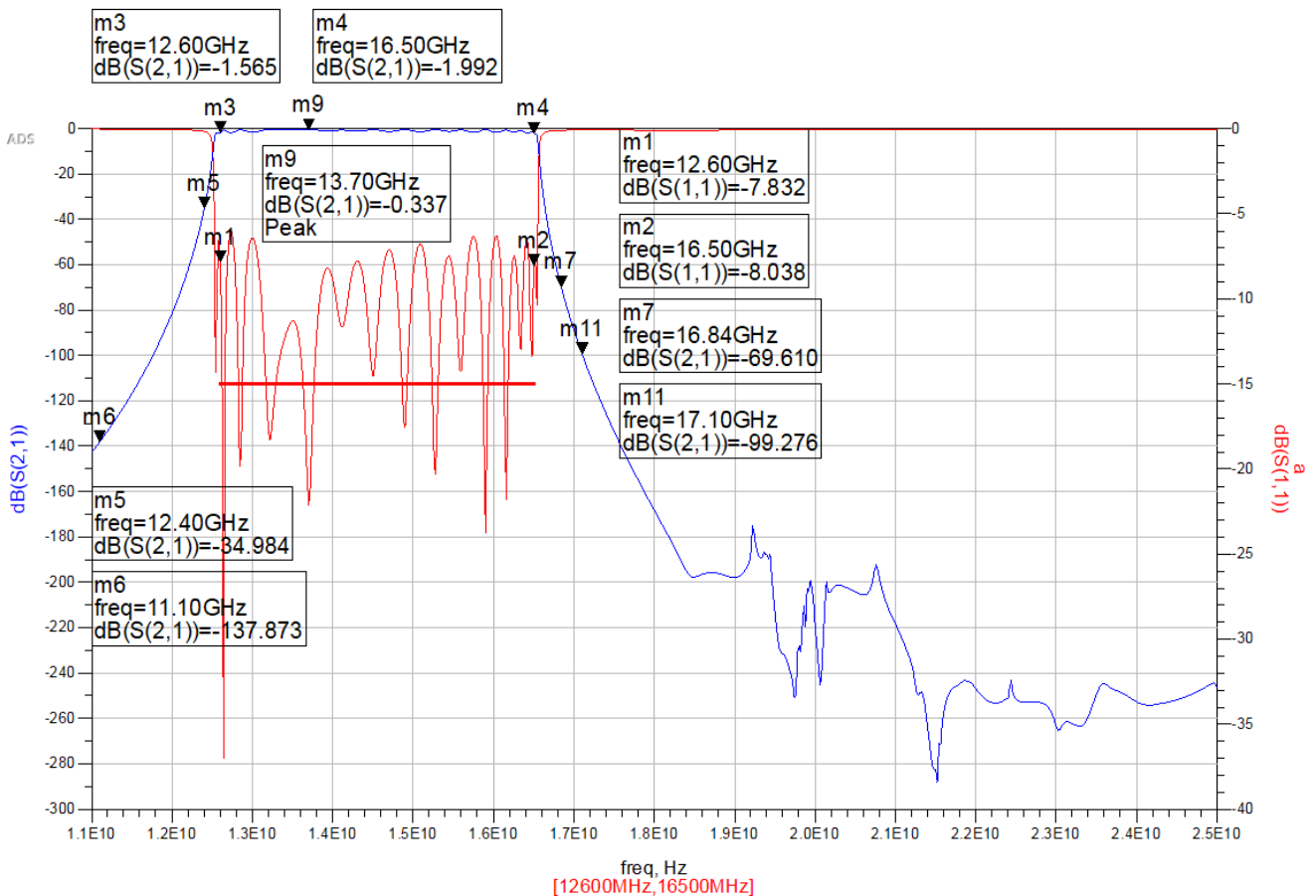


Figure 2 The simulation curve of the filter

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