

# Technical Proposal for JX-CF1-9G10G-S50 Cavity Filter

◆ High Performance

◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/09/30	Lee	Created	/

## Table of content

Technical Proposal for JX-CF1-9G10G-S50 Cavity Filter.....	1
1. Mechanical layout.....	2
2. Electrical analysis.....	2
2.1 Electrical specifications .....	2
2.2 The simulation curve .....	3

## Figures

Figure 1 JX-CF1-9G10G-S50 front panel layout .....	2
Figure 2 The simulation curve of the filter .....	3

## Tables

Table 1 Mechanical specifications @ JX-CF1-9G10G-S50 .....	2
Table 2 Electrical specifications @ JX-CF1-9G10G-S50 .....	2

**JING XIN MICROWAVE TECHNOLOGY CO.,LTD**

E-mail: [sales@cdjx-mw.com](mailto: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-CF1-9G10G-S50

Dimension	L x W x H: 74.9mm x 15mm (20mm Max) x 12.5mm
Port connectors	SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

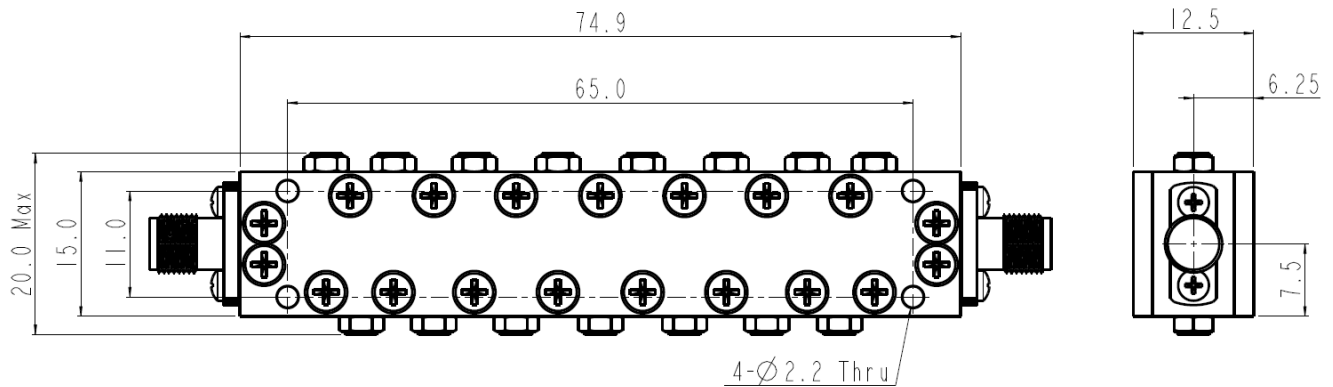


Figure 1 JX-CF1-9G10G-S50 front panel layout

## 2. Electrical analysis

### 2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-9G10G-S50

Item	Parameter	Specification
1	Frequency range	9000-10000MHz
2	Insertion loss	≤1.0dB
3	VSWR	≤1.4
4	Rejection	≥50dB@DC-8350MHz ≥50dB@12350MHz
5	Impedance	50Ω
6	Temperature range	Operating: -40 to +80°C Storage: -55 to +95°C

**JING XIN MICROWAVE TECHNOLOGY CO.,LTD**

E-mail: [sales@cdjx-mw.com](mailto: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.

2.2 The simulation curve

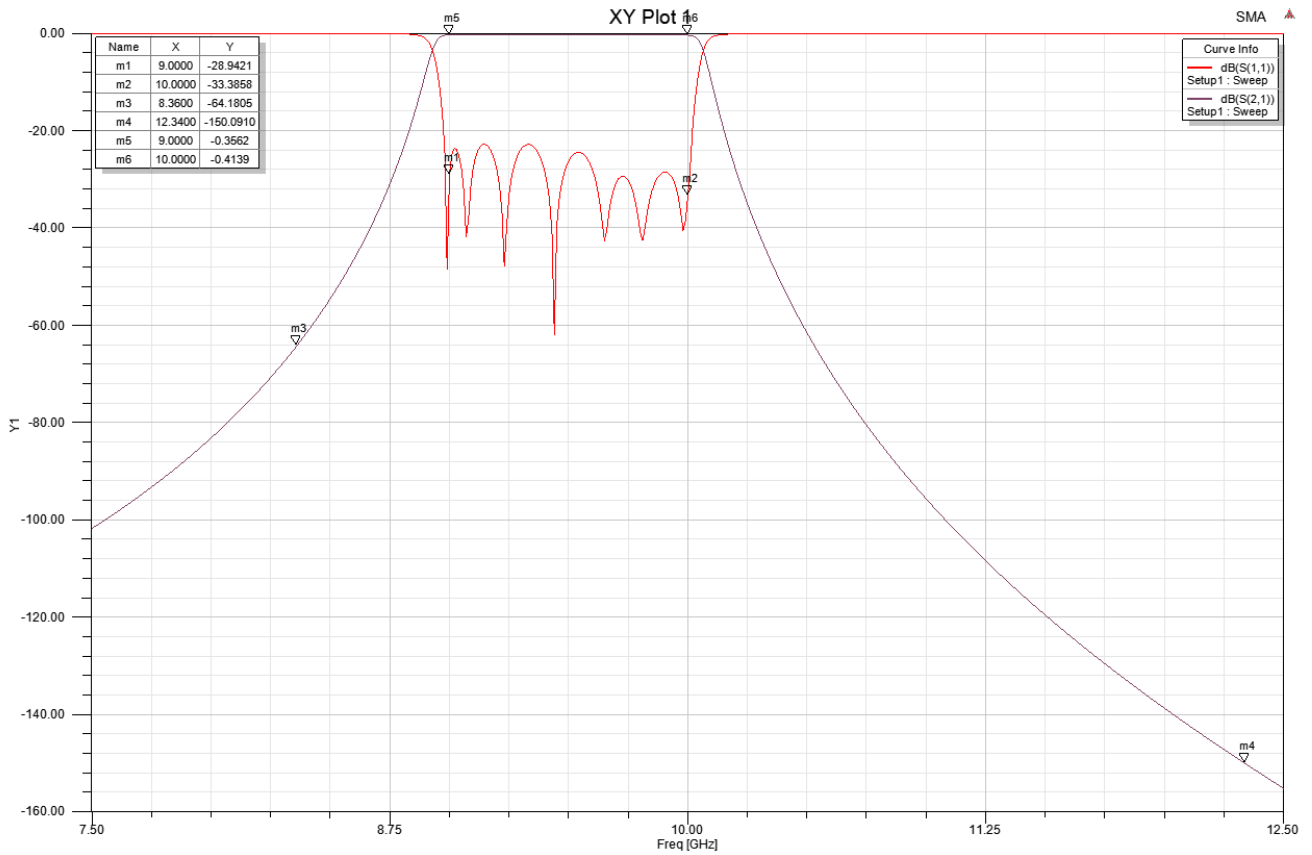


Figure 2 The simulation curve of the filter

**JING XIN MICROWAVE TECHNOLOGY CO.,LTD**

E-mail: [sales@cdjx-mw.com](mailto: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.