

# Technical Proposal for JX-CF1-339M402M-90NWP Cavity Filter

- ◆ Low Insertion Loss
- ◆ High Reliability
- ◆ High Rejection
- ◆ IP67

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/08/22	Lin liqun	Created	/
V1.1	2019/09/02	Lee	Changed the direction of the ground stud	JingXin request

**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.

## Table of content

Technical Proposal for JX-CF1-339M402M-90NWP Cavity Filter .....	1
1. Mechanical layout.....	3
2. Electrical analysis.....	4
2.1 Electrical specifications .....	4
2.2 The simulation curve .....	4

## Figures

Figure 1 JX-CF1-339M402M-90NWP front panel layout.....	3
Figure 2 The simulation curve of the Filter .....	4

## Tables

Table 1 Mechanical specifications @ JX-CF1-339M402M-90NWP .....	3
Table 2 Electrical specifications @ JX-CF1-339M402M-90NWP .....	4

**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-CF1-339M402M-90NWP

Dimension	LxWxH: 160mm x 150mm x 59mm
Port connectors	N-Female
Finish	Gray powder spraying
Salt mist	EN 60068-2-11 / Ka Cass ST4
Humidity	95%RH 2cycles 2 24H 25°C to 55°C according to EN50155:2017 cyclic damp heat test (13.4.7)
IP protection	IP67
Notes	Material shall be RoHS 6/6

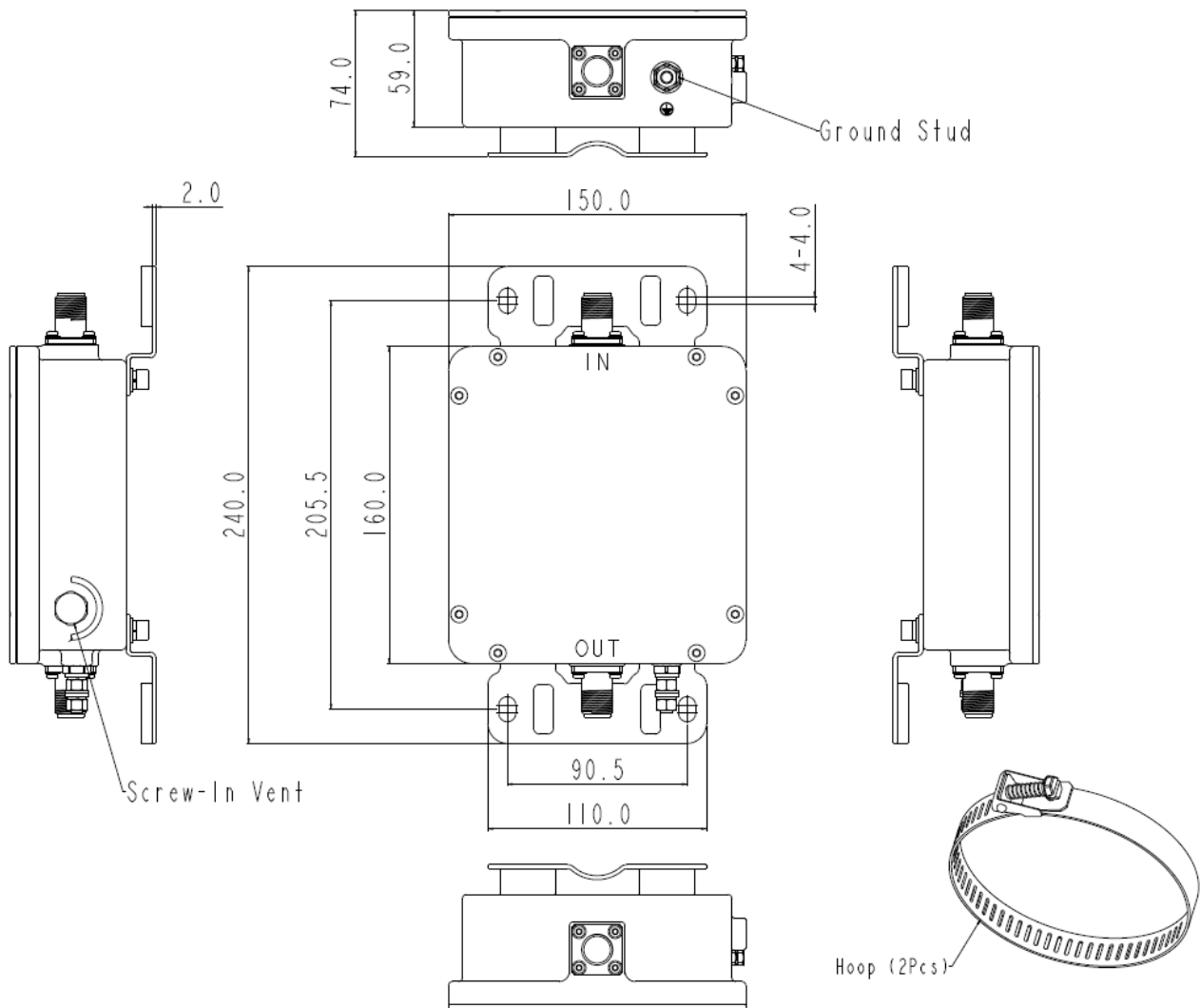


Figure 1 JX-CF1-339M402M-90NWP front panel layout

**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. Electrical analysis

### 2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-339M402M-90NWP

Item	Parameter	Specification
1	Frequency range	339-402MHz
2	Return loss	≥15dB
3	Insertion loss	≤0.5dB
4	Rejection	≥90dB @ 449-451MHz
5	Power	50W
6	Impedance	50Ω
7	Temperature range	-20°C to +70°C

### 2.2 The simulation curve

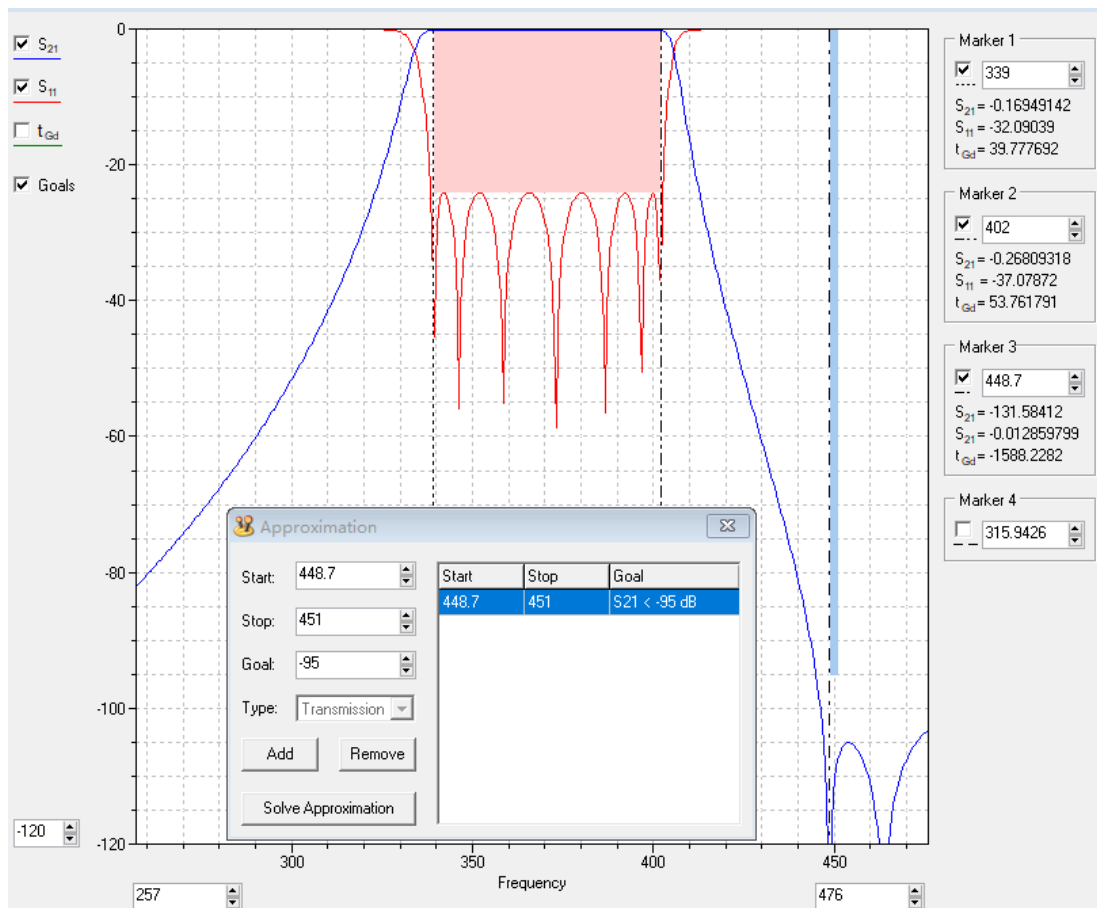


Figure 2 The simulation curve of the Filter

**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.