

Technical Proposal for JX-CF1-449M451M-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

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-449M451M-90NWP

Dimension	LxWxH: 145mm x 110mm 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

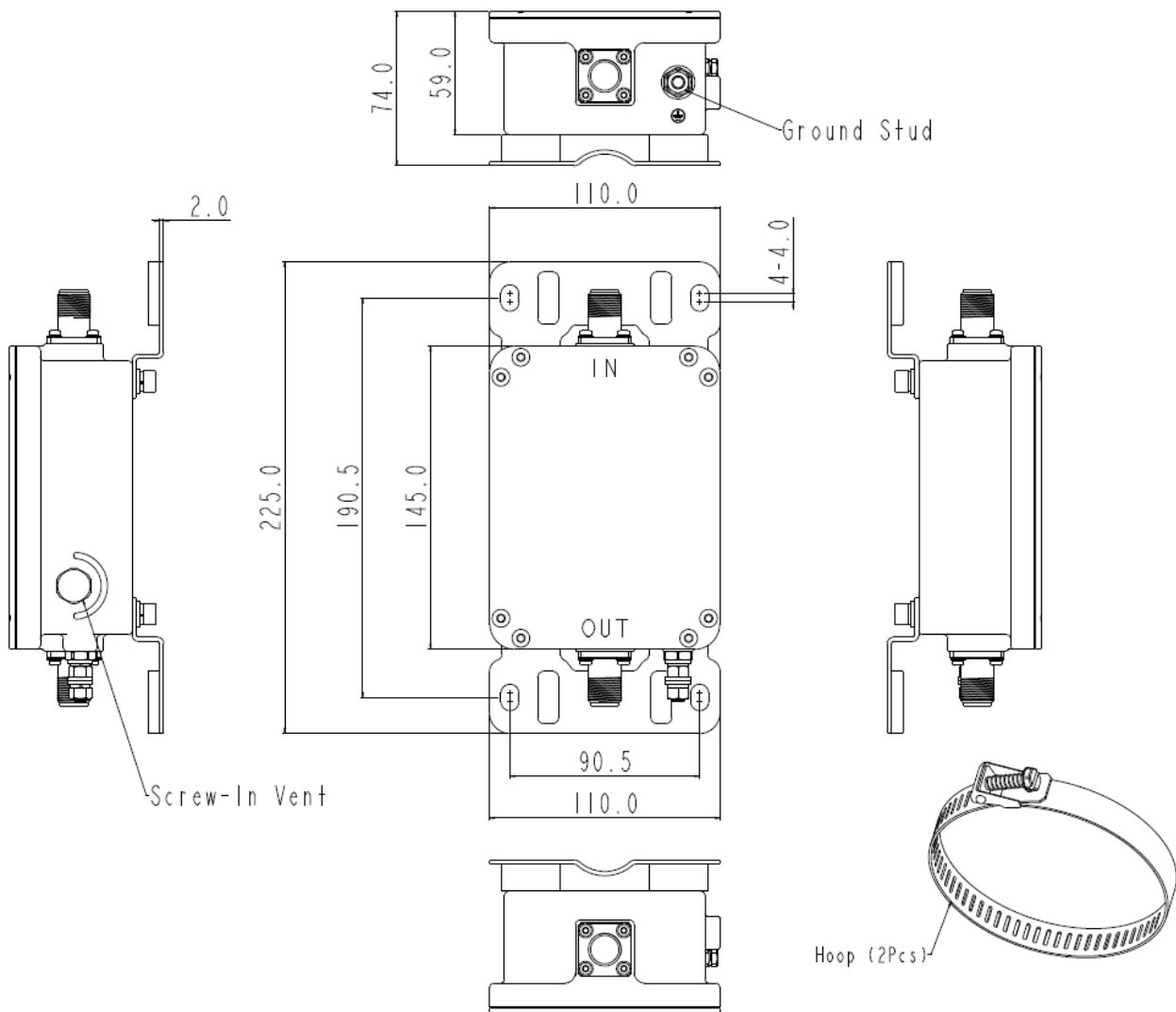


Figure 1 JX-CF1-449M451M-90NWP front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-449M451M-90NWP

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

2.2 The simulation curve

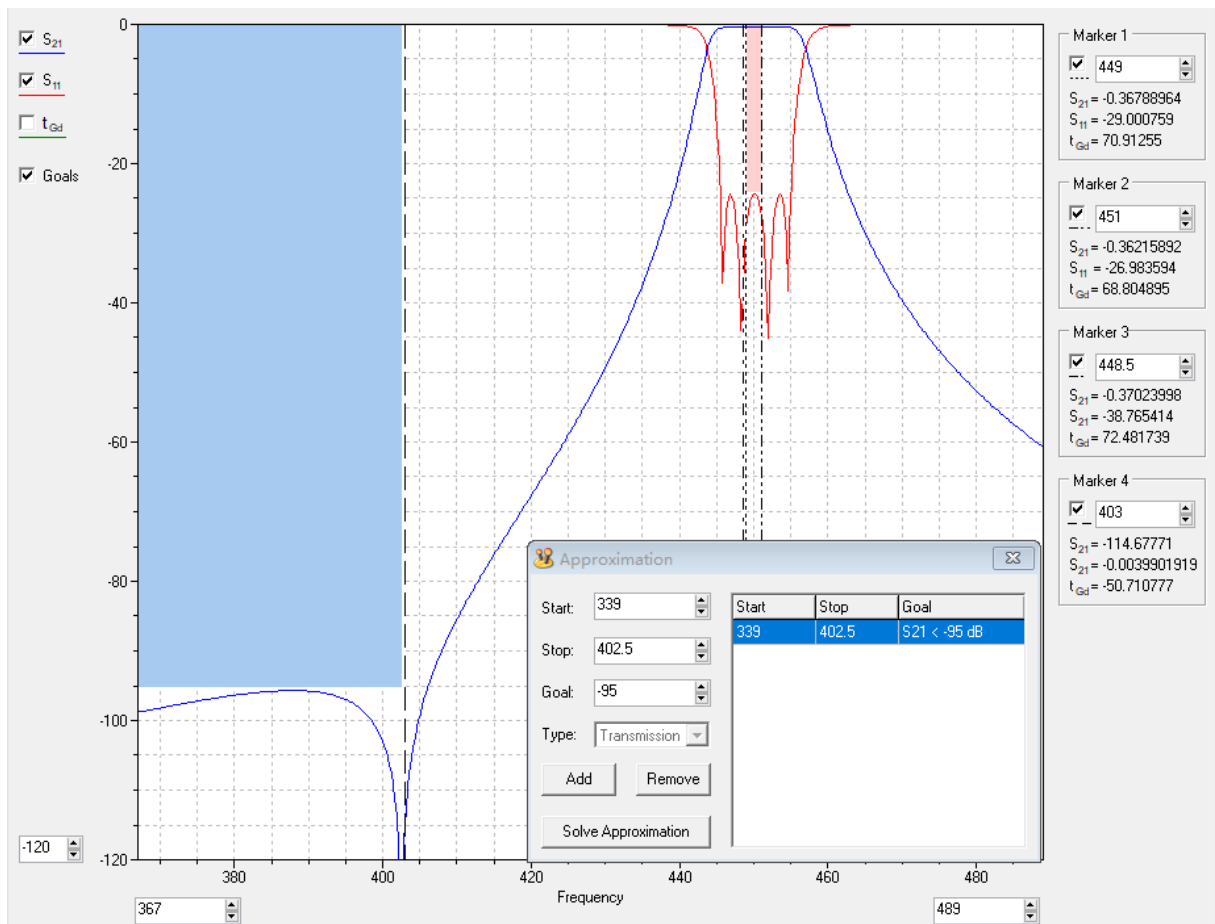


Figure 2 The simulation curve of the Filter

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