

# Technical Proposal for JX-CF1-3400M3700M-50N Cavity Filter

- ◆ Low Insertion Loss
- ◆ Small Volume
- ◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/09/27	Lin liqun	Created	/

## Table of content

Technical Proposal for JX-CF1-3400M3700M-50N Cavity Filter .....	1
1. Mechanical layout.....	2
2. Electrical analysis.....	3
2.1 Electrical specifications .....	3
2.2 The simulation curve .....	3

## Figures

Figure 1 JX-CF1-3400M3700M-50N front panel layout.....	2
Figure 2 The simulation curve of the Filter .....	3

## Tables

Table 1 Mechanical specifications @ JX-CF1-3400M3700M-50N.....	2
Table 2 Electrical specifications @ JX-CF1-3400M3700M-50N .....	3

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## 1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-3400M3700M-50N

Dimension	LxWxH: 95mm x 50mm x 22mm(28mm Max)
Port connectors	N-Female
Finish	Conductive oxidation
Notes	Material shall be RoHS 6/6

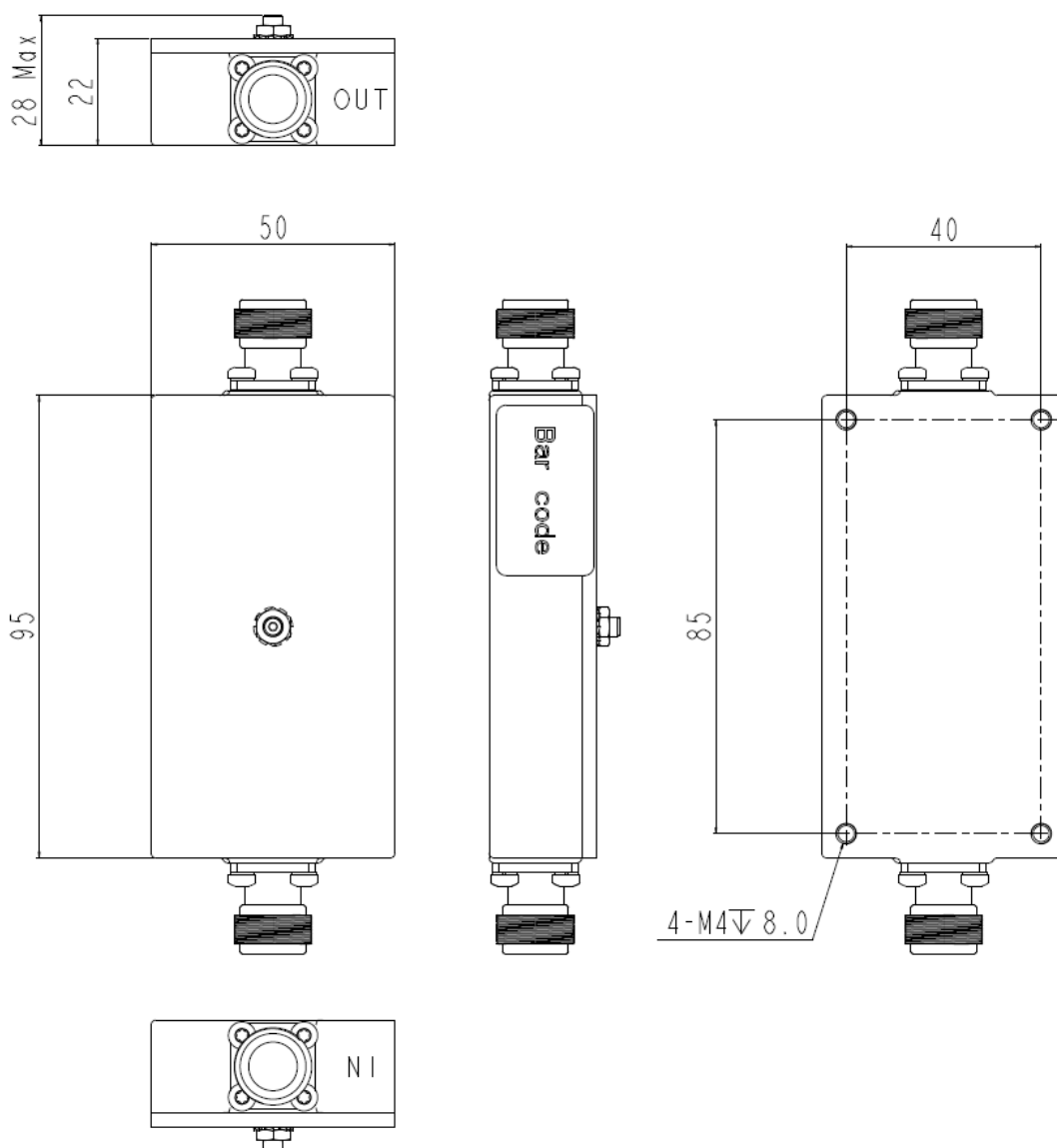


Figure 1 JX-CF1-3400M3700M-50N front panel layout

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## 2. Electrical analysis

### 2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-3400M3700M-50N

Item	Parameter	Specification
1	Frequency range	3400-3700MHz
2	Return loss	≥15dB
3	Insertion loss	≤1.0dB
4	Ripple	≤1.0dB
5	Rejection	≥50dB @ DC-3200MHz
		≥50dB @ 3900-6000MHz
6	Input power (continuous/peak)	50W/100W
7	Impedance	50Ω

### 2.2 The simulation curve

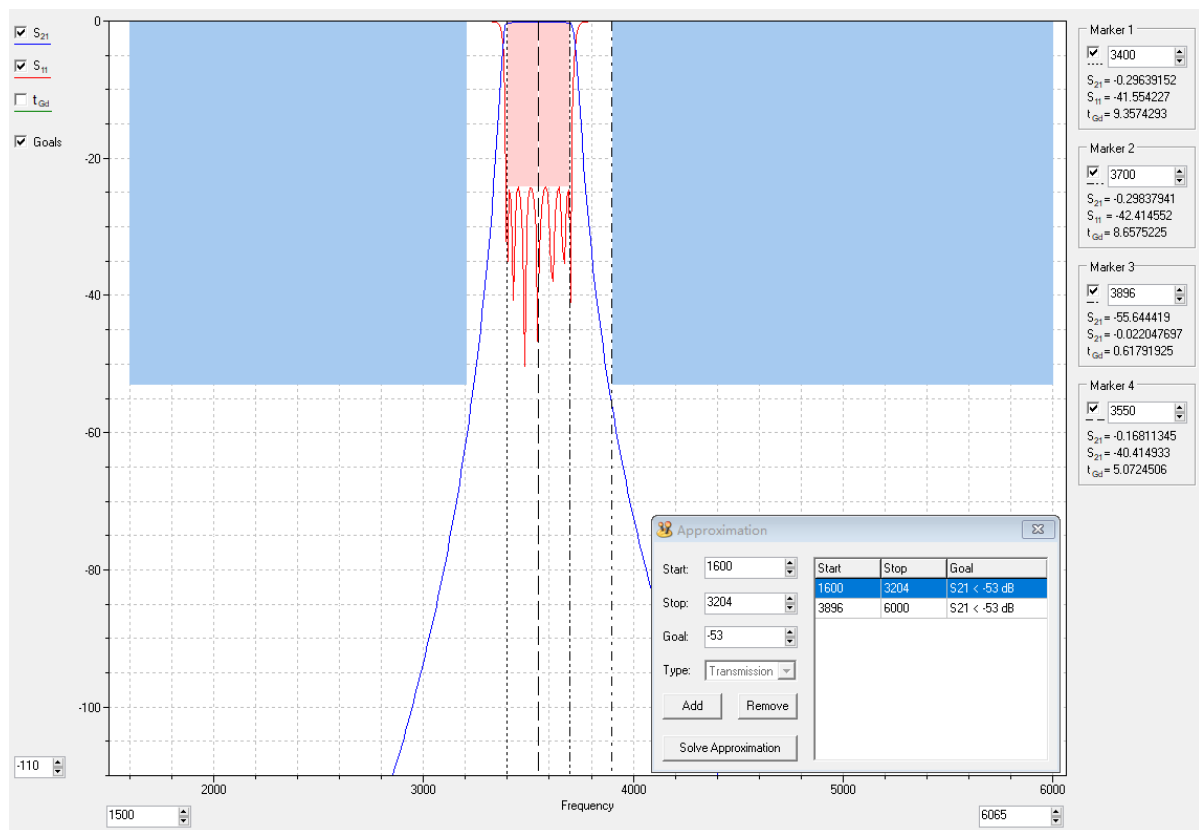


Figure 2 The simulation curve of the Filter

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