

# Technical Proposal for JX-CF1-1427M1518M-80N Cavity Filter

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

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/09/28	Lin liqun	Created	/

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### 1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-1427M1518M-80N

Dimension	LxWxH: 130mm x 60mm x 29mm(35mm Max)
Port connectors	N-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

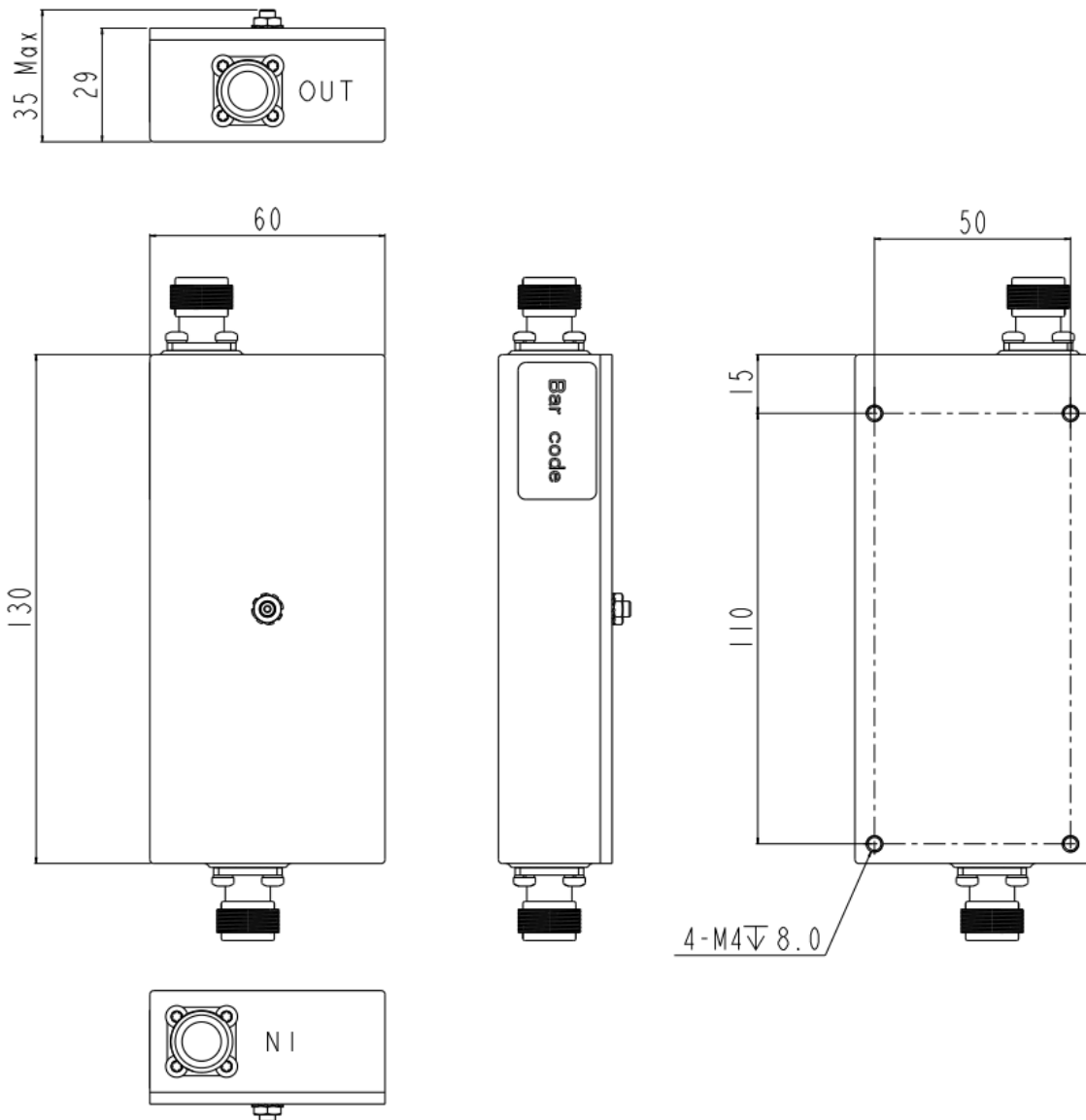


Figure 1 JX-CF1-1427M1518M-80N front panel layout

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## 2. Electrical analysis

### 2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-1427M1518M-80N

Item	Parameter	Specification
1	Frequency range	1427-1518MHz
2	Return loss	≥15dB
3	Insertion loss	≤1.0dB
4	Ripple	≤1.5dB
5	Rejection	≥80dB @ DC-1400MHz
		≥50dB @ 1700-6000MHz
6	Input power (continuous/peak)	50W/100W
7	Impedance	50Ω

### 2.2 The simulation curve

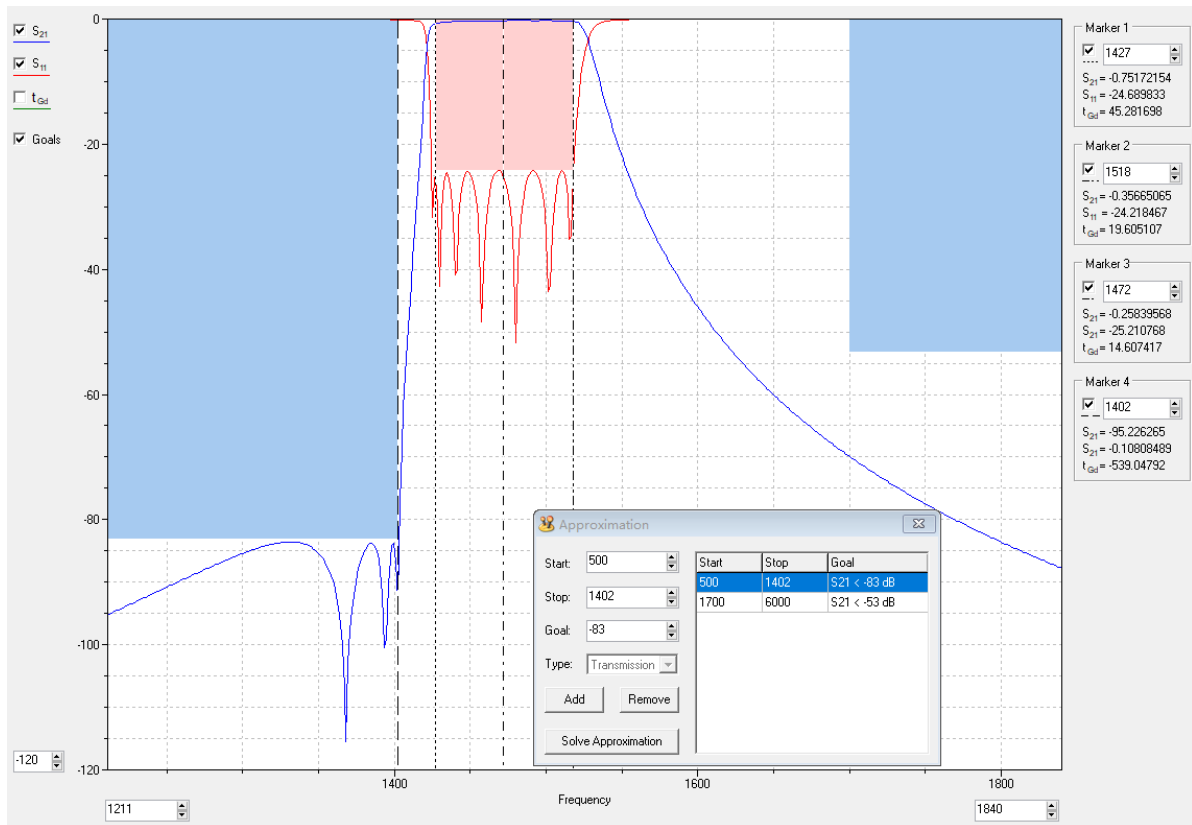


Figure 2 The simulation curve of the Filter

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