

# Technical proposal for JX-CF1-1080M1100M-40NS Cavity Filter

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

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/06/21	Sam Chen	Created	/
V1.1	2019/06/24	Sam Chen	Add temperature	/
V1.2	2019/06/24	Sam Chen	Update	/
V1.3	2019/06/25	Sam Chen	Update	/

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## 1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-1080M1100M-40NS

Dimension	L x W x H: 100mm x 50mm x 28mm(56.0mm Max) ( $\pm 0.3$ mm)
Port connectors	Input: N-Male; Output: SMA-Female
Finish	Black
Notes	Material shall be RoHS 6/6

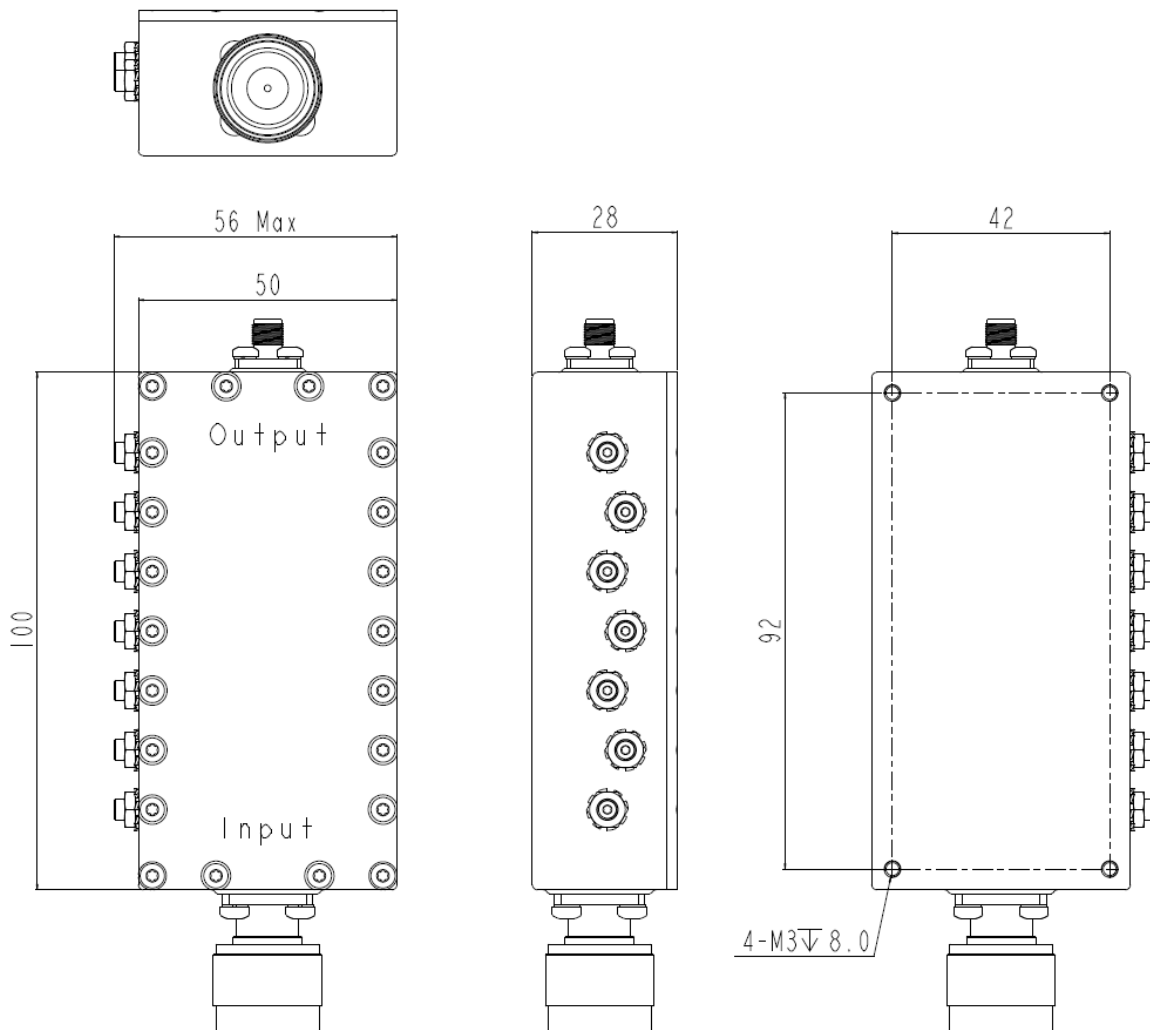


Figure 1 JX-CF1-1080M1100M-40NS front panel layout

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## 2. Electrical analysis

### 2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-1080M1100M-40NS

Item	Parameter	Input-Output
1	Frequency range	1080-1100 MHz
2	Return Loss	≥18 dB
3	Insertion loss	≤0.5 dB
4	Rejection	≥40dB@DC-1040MHz ≥40dB@1140-3000MHz
5	Power Handling CW Power Handling Peak	20W at 1020-1040MHz(blocking);and 1W at 1090MHz(pass) 4000W at 1020-1040MHz(blocking);and 1W at 1090MHz(pass)
6	Temperature Range	-30-+70 °C
7	Impedance	50 Ω

### 2.2 The simulation curve

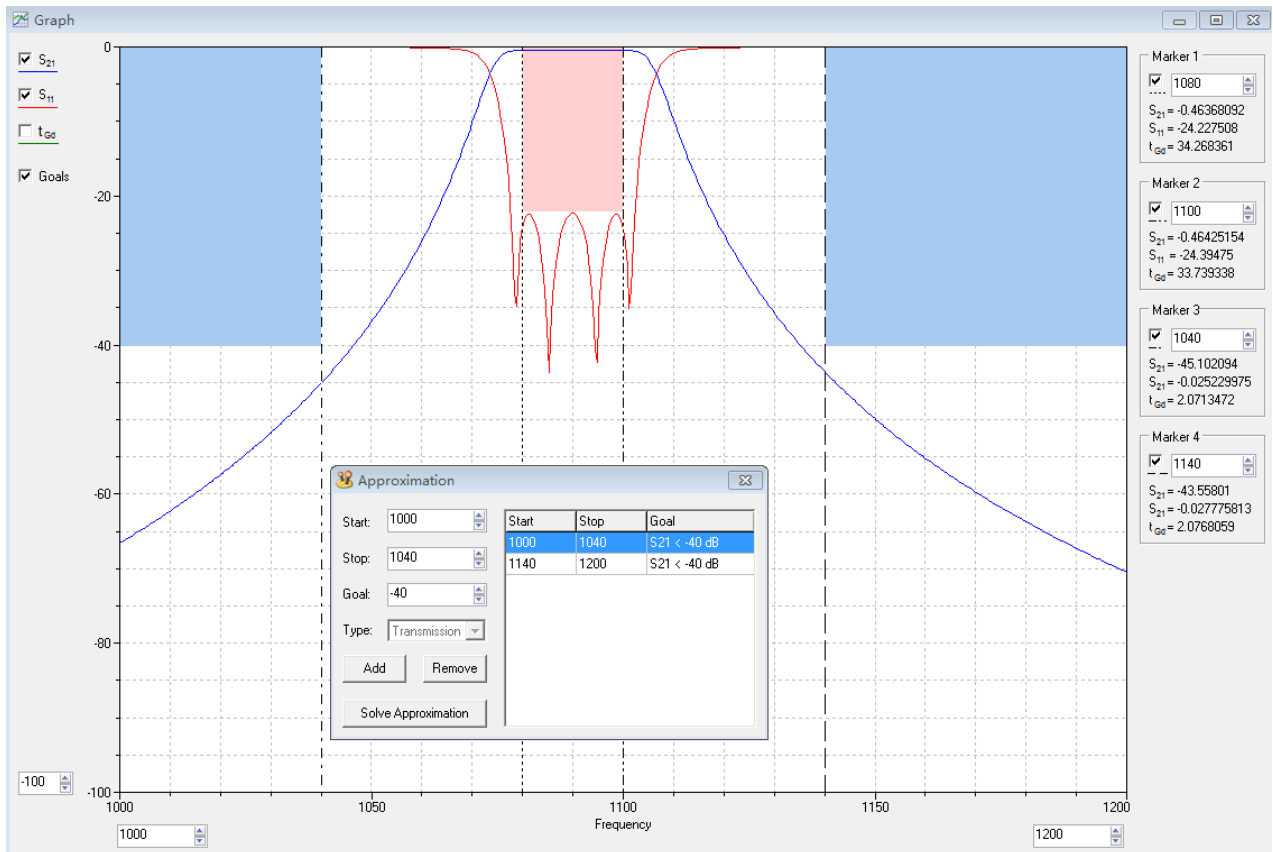


Figure 2 The simulation curve of the Filter

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