

# Technical Proposal for JX-CF1-2900M4100M-66S Cavity Filter

◆ High Reliability

◆ High Performance

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/11/17	Lin liqun	Created	/
V1.1	2020/12/28	Lin liqun	Update front panel layout	Customer suggestions

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## 1. Mechanical layout

Table 1 Mechanical specifications

Dimension	L x W x H: 68.33 mm x 36.07 mm x 14.98 mm
Port connectors	SMA-Female
Finish	Black Paint
Notes	Material shall be RoHS 6/6

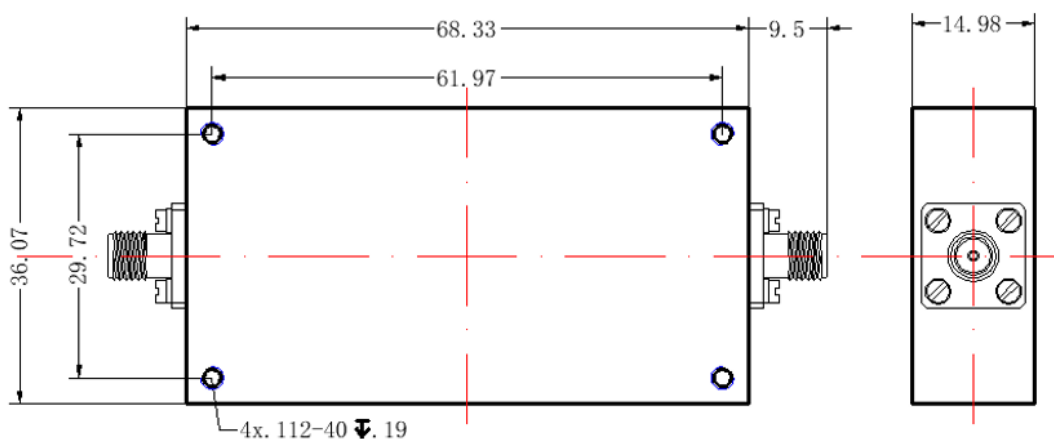


Figure 1 JX-CF1-2900M4100M-66S front panel layout

## 2. Electrical analysis

### 2.1 Electrical specifications

Table 2 Electrical specifications

Item	Parameter	Specification
1	Frequency range	2900-4100MHz
2	Center frequency	3500MHz
3	-3dB Bandwidth	≥1200MHz
4	Insertion loss	≤0.3dB @ Center frequency
5	Return loss	≥11.7dB
6	Rejection	≥66dB @ 2000MHz
		≥58dB @ 5000MHz
7	Impedance	50Ω
8	Operating temperature	-40°C to +85°C
9	Storage temperature	-40°C to +85°C

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## 2.2 The simulation curve

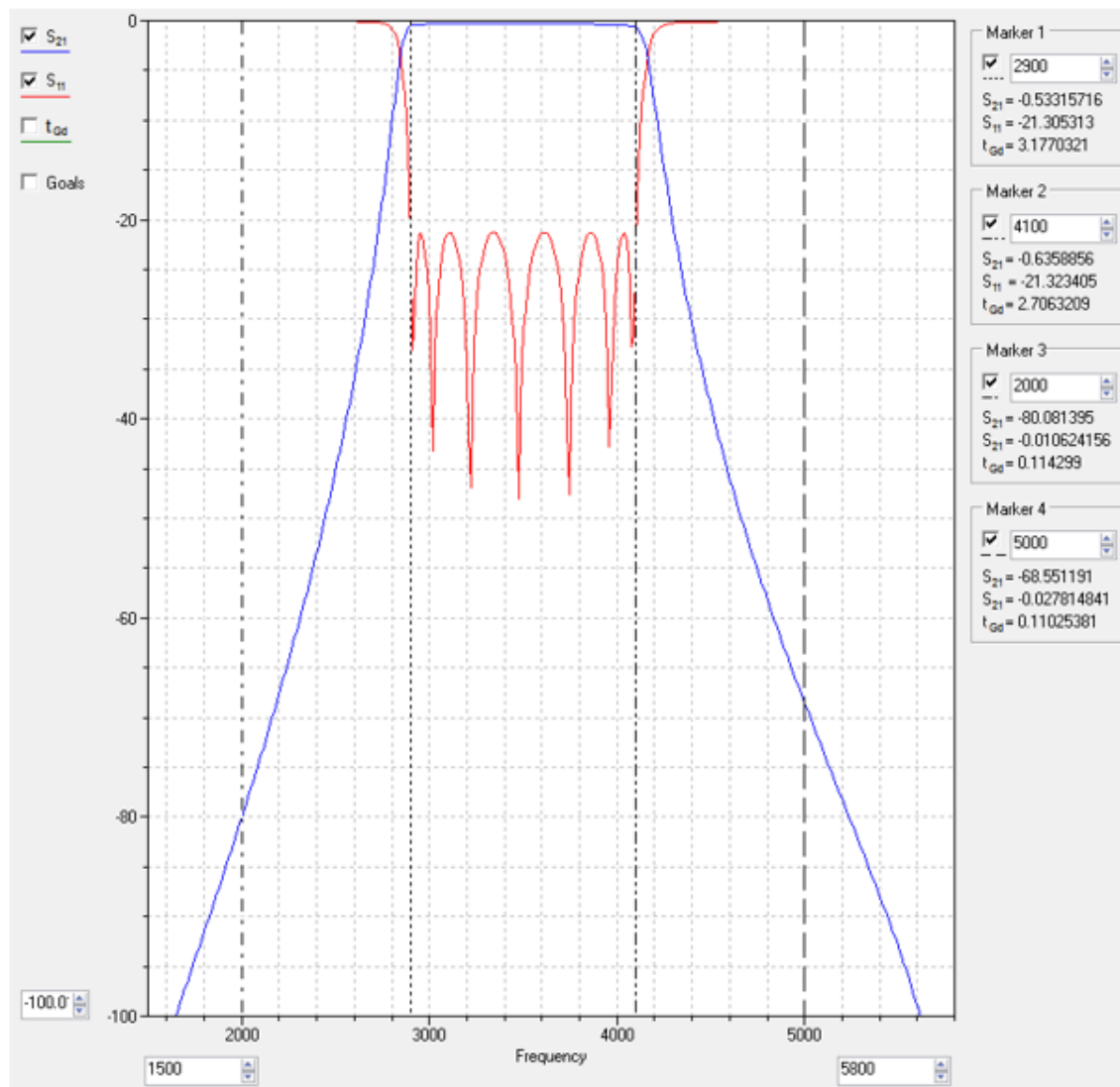


Figure 2 The curve of the Filter

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