

Technical Proposal for JX-CF1-4967M5012M-70S Cavity Filter

- ◆ High Rejection
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2022/01/24	Sam Chen	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-4967M5012M-70S

Dimension	LxWxH: 100mmx65mmx22mm (28.0Max)
Port connectors	SMA-Female
Finish	Black (paint spraying)
Notes	Material shall be RoHS 6/6

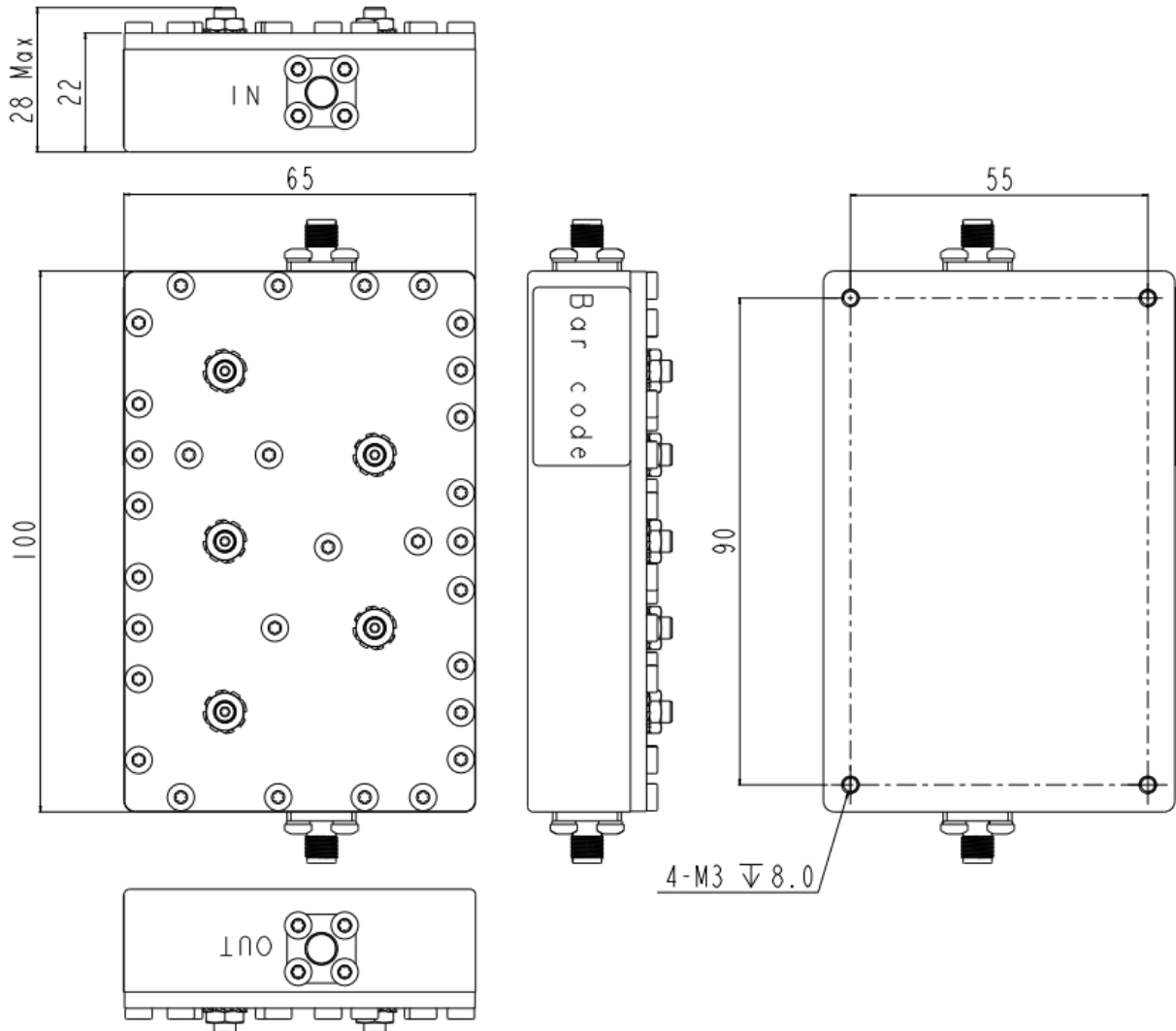


Figure 1 JX-CF1-4967M5012M-70S front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-4967M5012M-70S

Item	Parameter	Specification	
1	Frequency Range	4957.5-5012.5 MHz	
2	Insertion Loss (Normal Temp)	≤0.5 dB	
	Insertion Loss (Full Temp)	≤0.6 dB	
3	Ripple	≤0.4 dB	
4	Return Loss	≥18 dB	
5	Rejection	≥70 dB@4850 MHz	≥70 dB@5130 MHz
6	Power Handling	10 W	
7	Operating Temperature	-20°C to +70°C	
8	Input/Output Impedance	50 Ohms	

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2.2 The simulation curve

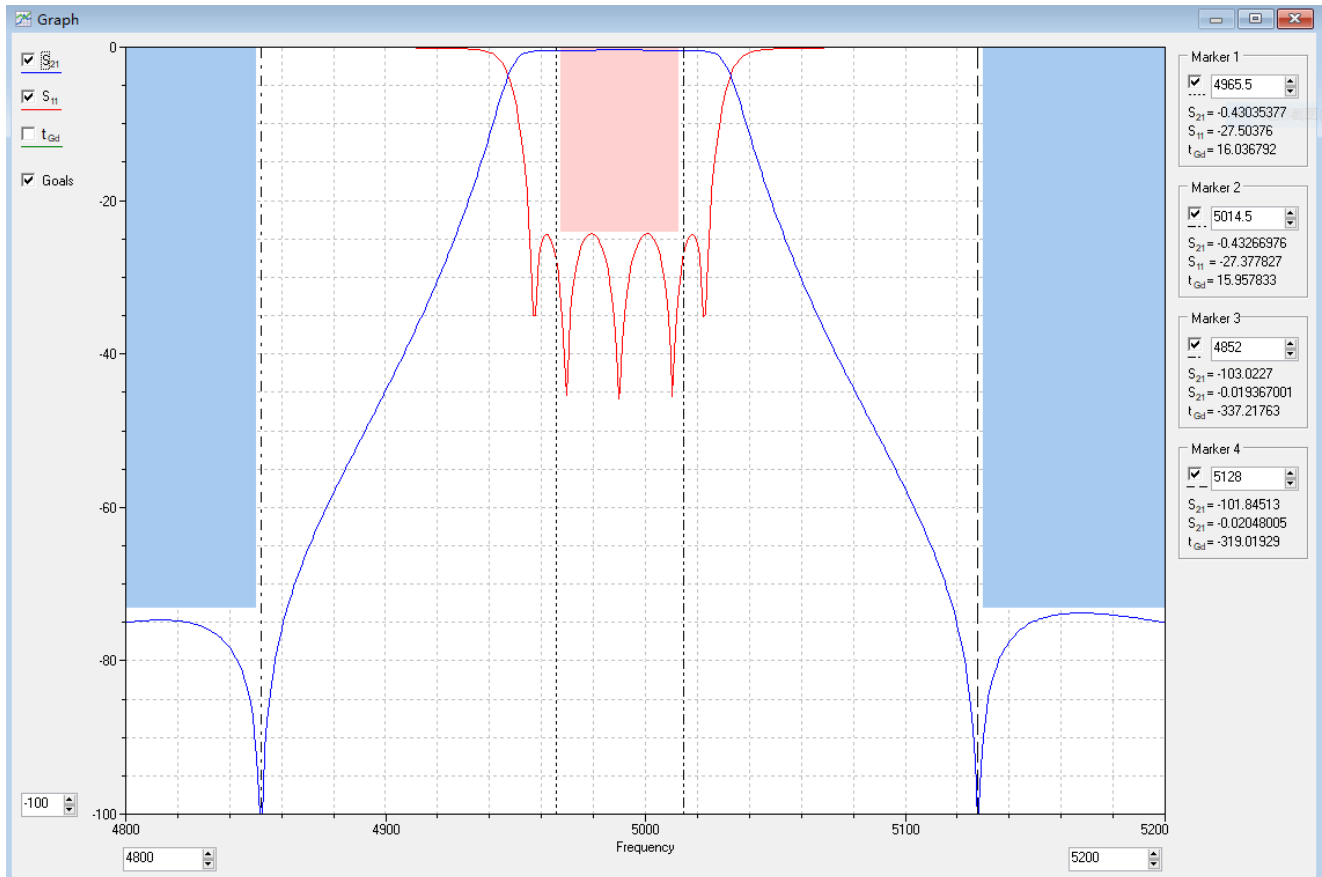


Figure 2 The simulation curve of the Filter

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