

Technical Proposal for JX-CF1-3700M4200M-50S1 Cavity Filter

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2023/07/11	Lee	Created	/
V1.1	2023/08/10	Lee	Updated the electrical specifications	JingXin request

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1. Mechanical specification

Table 1 Mechanical specifications @ JX-CF1-3700M4200M-50S1

Dimension	L x W x H: 86mm x 35mm x 21mm (Max:26.0mm)
Connectors	SMA-Female
Finish	Black (Paint spraying)
Mounting	4-M3 deep 8.0mm
Application	Indoor
Notes	Material shall be RoHS 6/6

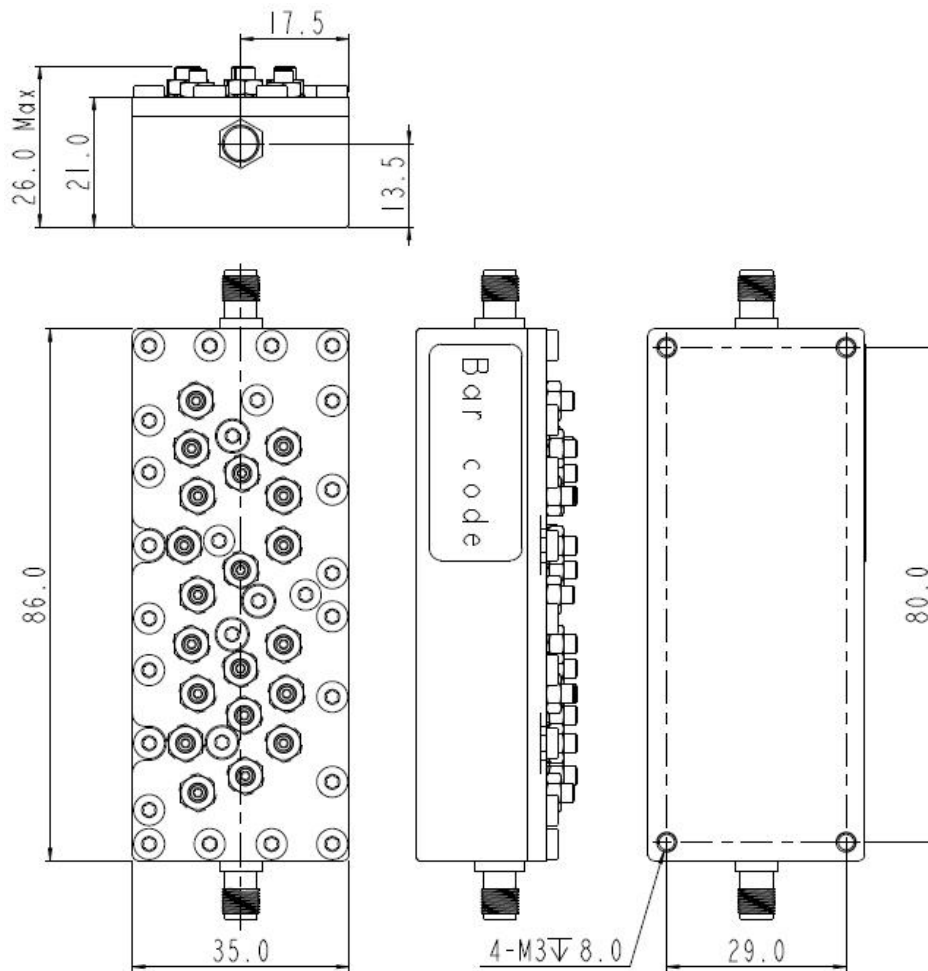


Figure 1 JX-CF1-3700M4200M-50S1 front panel layout

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2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications @ JX-CF1-3700M4200M-50S1

Item	Parameter	Specifications
1	Frequency range	3700-4200MHz
2	Insertion loss	≤1.0dB
3	Ripple	≤0.85dB
4	Return loss	≥16dB
5	Rejection (room temp)	≥50dB @ 3650MHz ≥50dB @ 4300MHz
	Rejection (full temp)	≥40dB @ 3650MHz ≥50dB @ 4300MHz
6	Input port power	30W Average
7	Common port power	30W Average
8	Temperature range	-40°C to +85°C
9	Impedance	50Ω

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2.2 The test curve

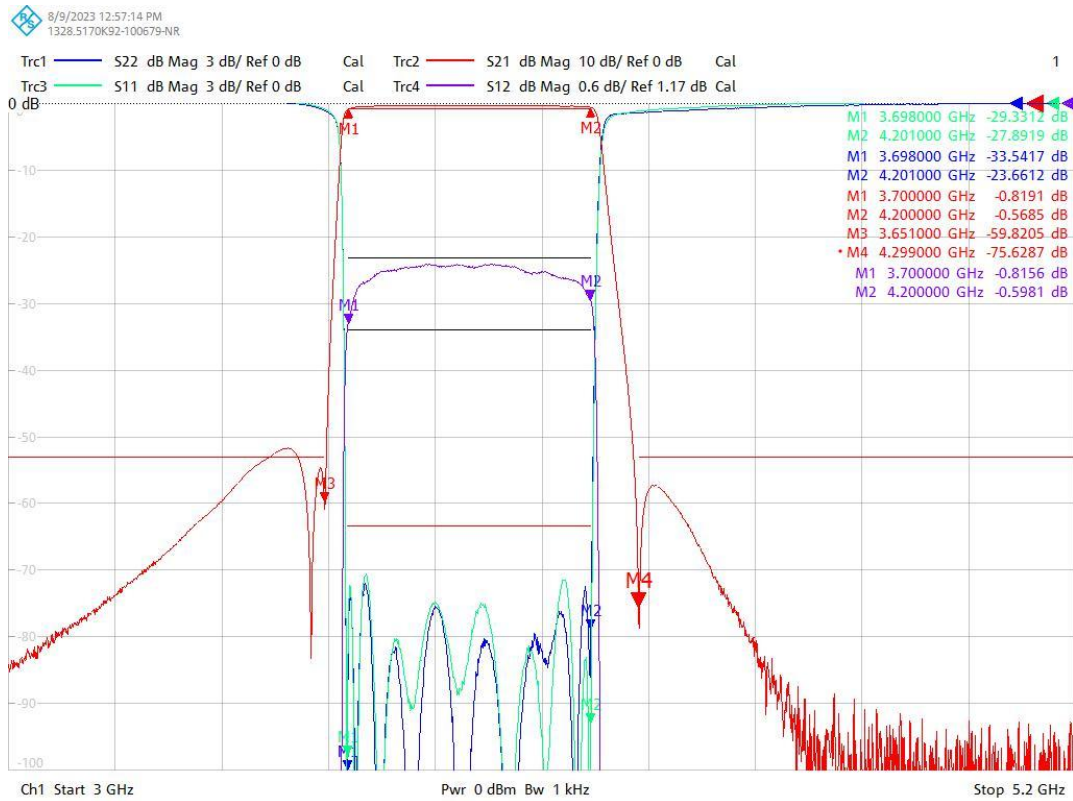


Figure 2 The test curve @ room temperature

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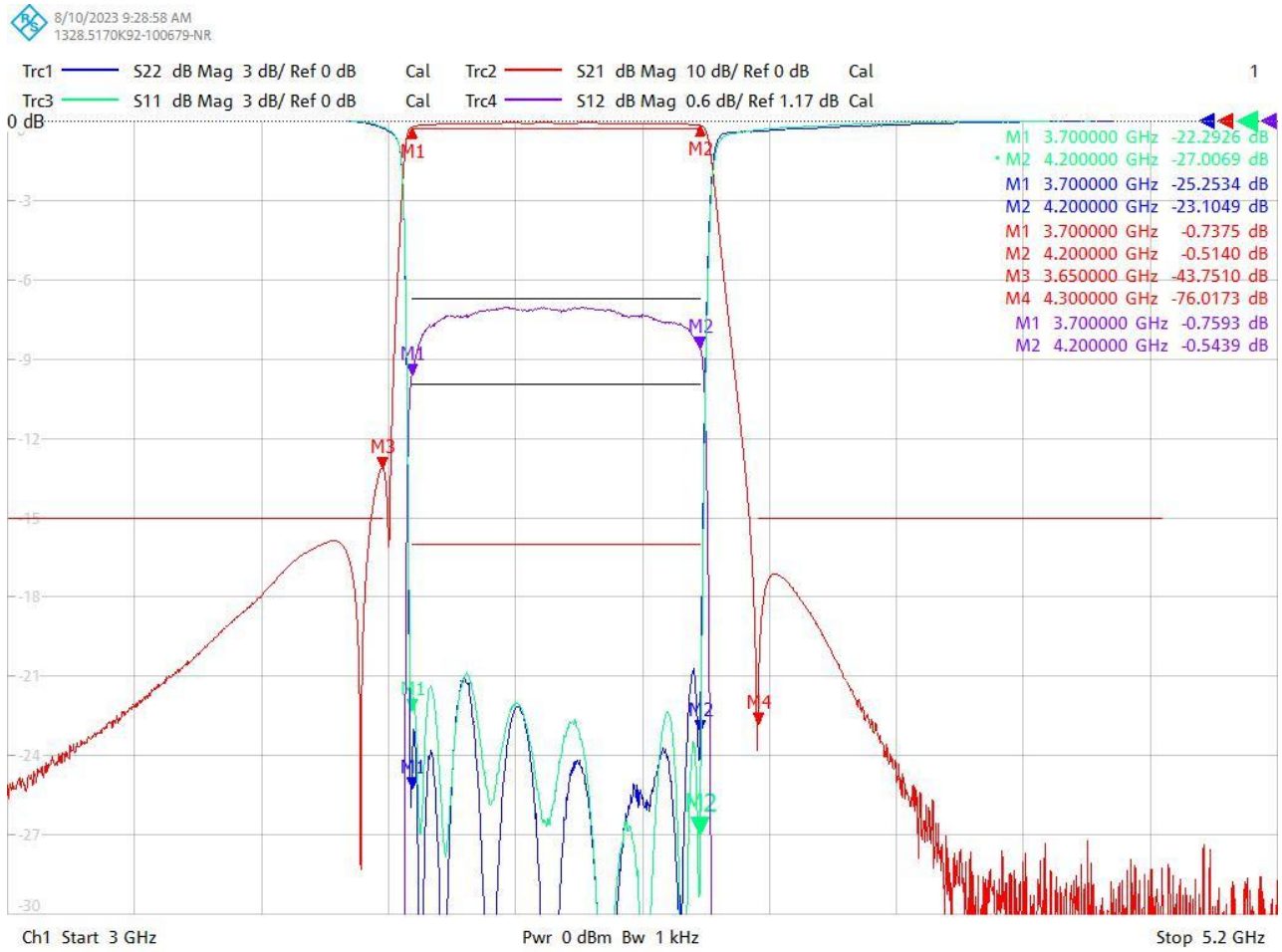


Figure 3 The test curve @ full temperature

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