

Technical Proposal for JX-CF1-5100M5900M-60S Cavity Filter

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

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/09/18	Lin liqun	Created	/
V1.1	2021/08/09	Lin liqun	Updated the return loss " \leq " \rightarrow " \geq "	JingXin request

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-5100M5900M-60S

Dimension	LxWxH: 95mm x 50mm x 22mm(28mm Max)
Port connectors	SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

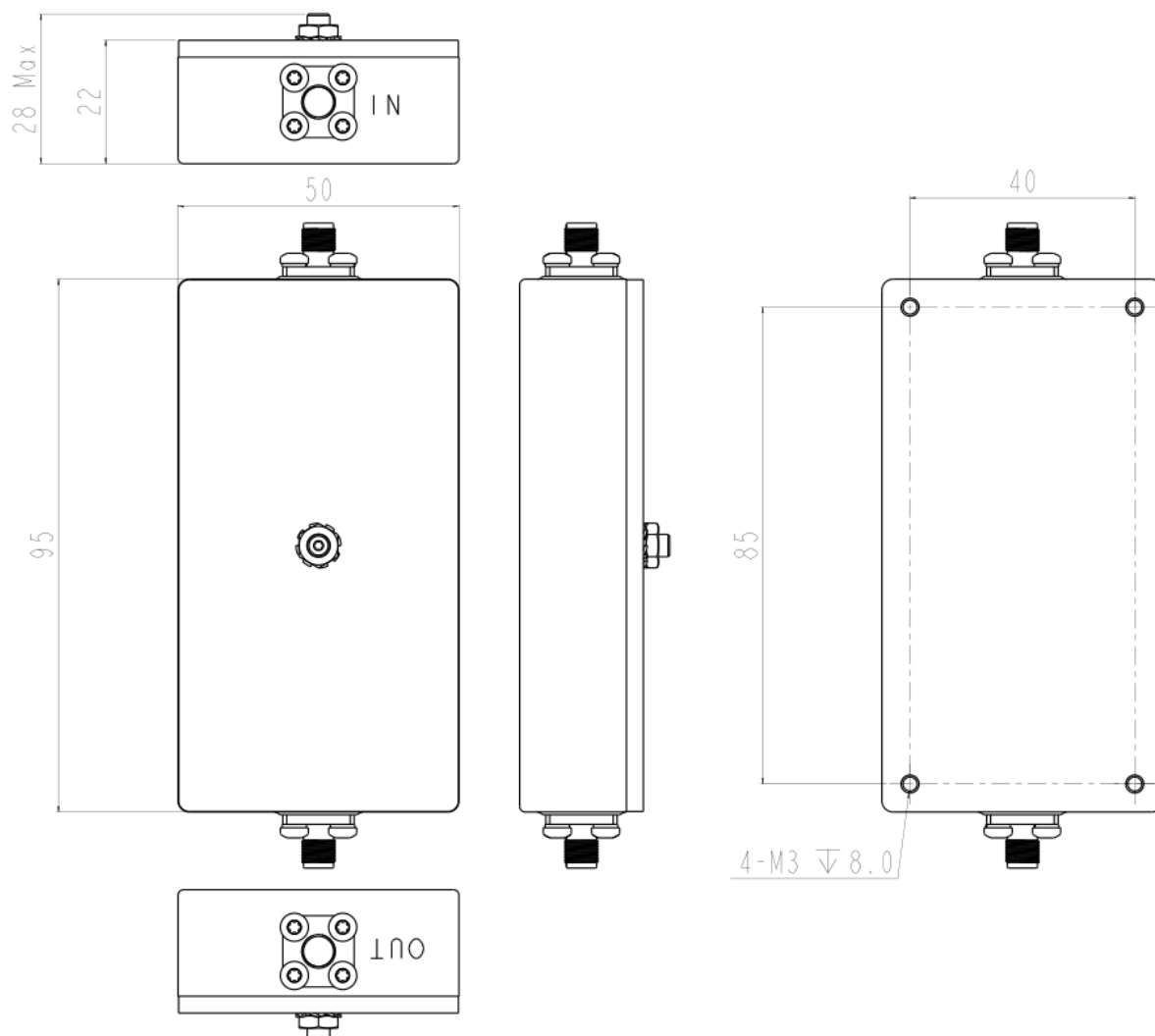


Figure 1 JX-CF1-5100M5900M-60S front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-5100M5900M-60S

Item	Parameter	Specification
1	Frequency range	5100-5900MHz
2	Return loss	$\geq 15\text{dB}$
3	Insertion loss	$\leq 0.5\text{dB}$
4	Rejection	$\geq 60\text{dB}$ @ 6200MHz
5	Power	50W
6	Impedance	50 Ω

2.2 The simulation curve

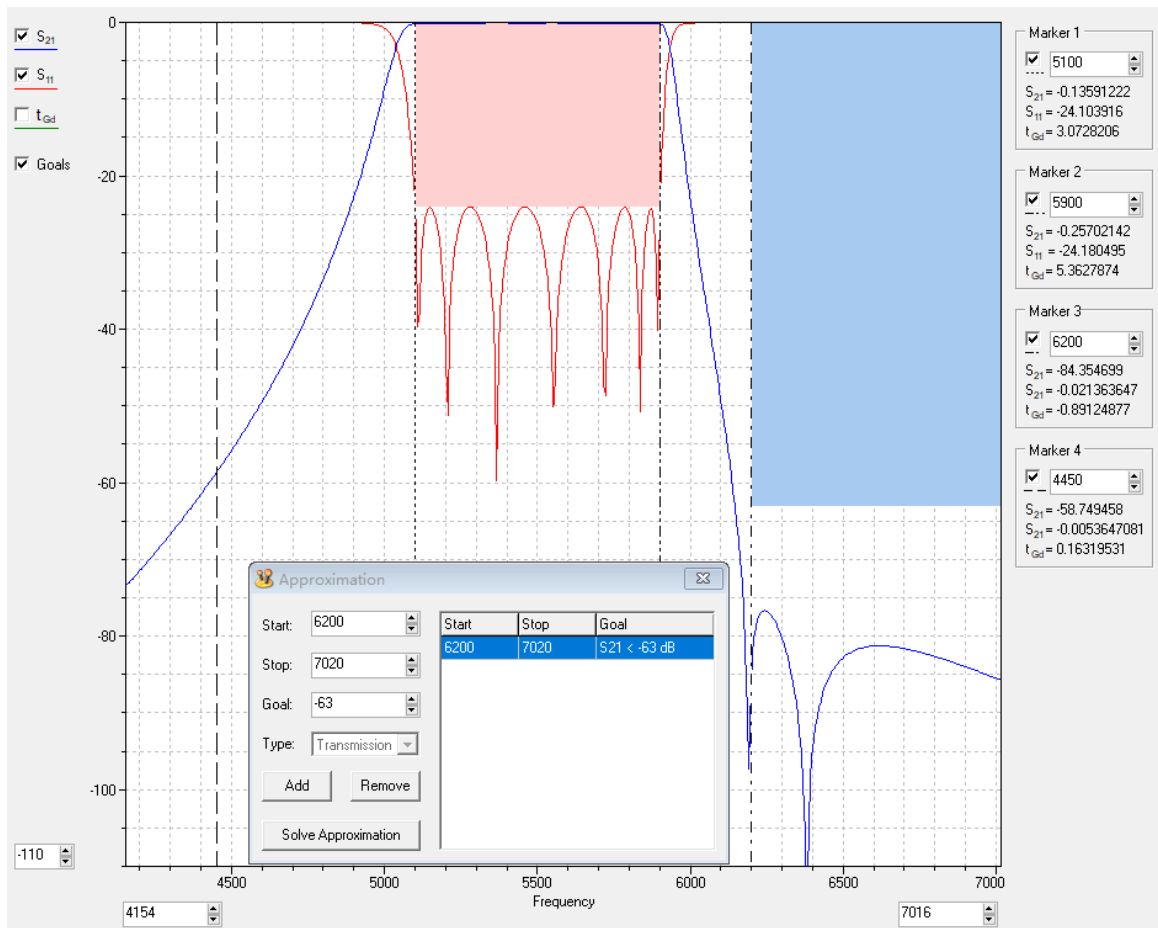


Figure 2 The simulation curve of the filter

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