

Technical proposal for JX-CF1-280M380M-22S Cavity Filter

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

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/09/19	Lee	Created	/

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CF1-280M380M-22S

Dimension	LxWxH: 208mm x 108mm x 72mm (Max 79mm)
Port connectors	SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

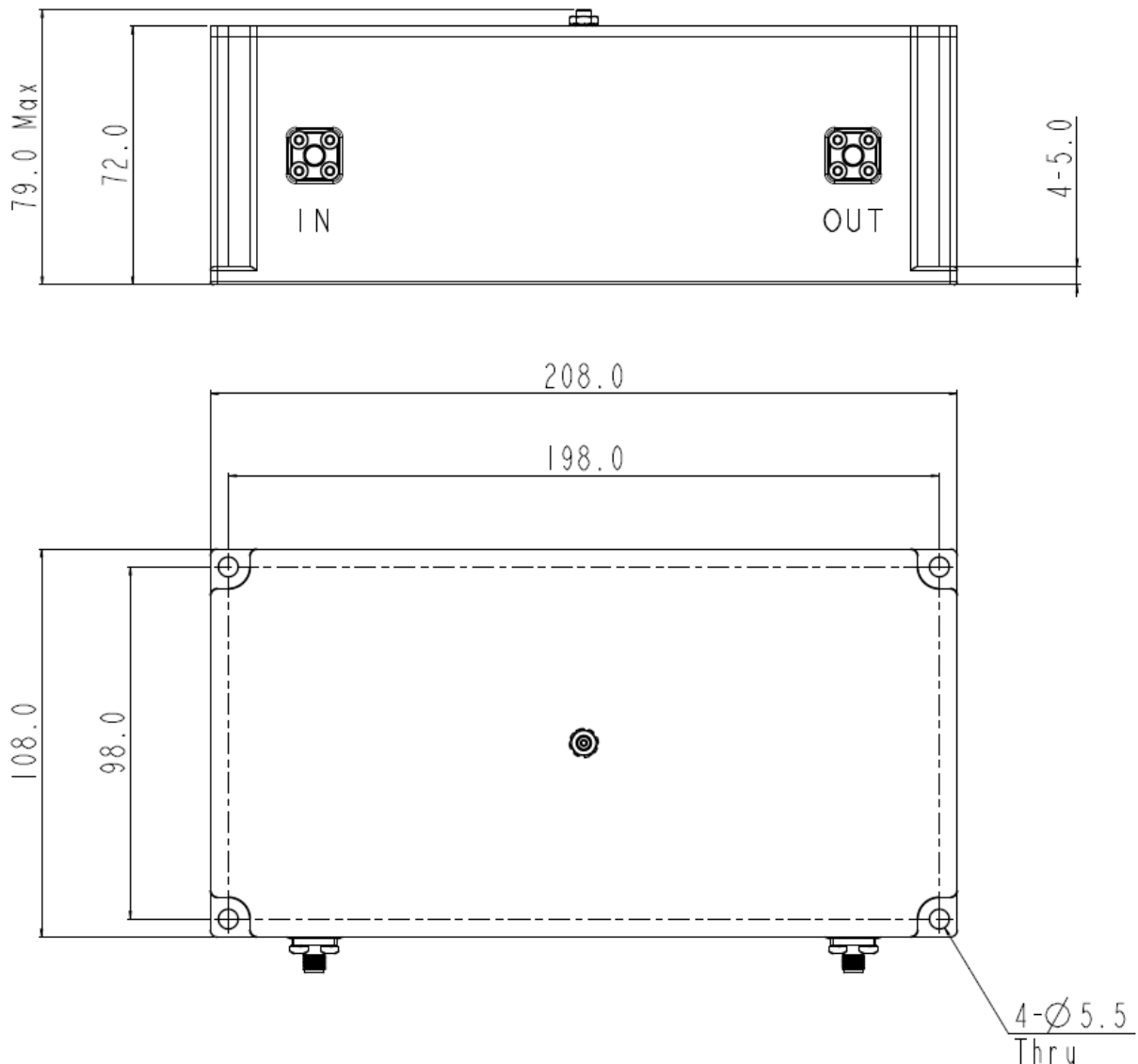


Figure 1 JX-CF1-280M380M-22S front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-280M380M-22S

Item	Frequency Range	280-380MHz
1	Insertion Loss	$\leq 1.0\text{dB}$
2	Ripple	$\leq 0.5\text{dB}$
3	Return Loss	$\geq 16\text{dB}$
4	Rejection	$\geq 70\text{dB}$ @ DC-190MHz $\geq 50\text{dB}$ @ 190-230MHz $\geq 22\text{dB}$ @ 230-260MHz $\geq 3\text{dB}$ @ 260-270MHz $\geq 3\text{dB}$ @ 390-400MHz $\geq 22\text{dB}$ @ 400-430MHz $\geq 50\text{dB}$ @ 430-470MHz $\geq 70\text{dB}$ @ 470-520MHz
5	Power Handling	50W CW max
6	Impedance	50 ohm
7	Operating Temperature Range	0°C to +70°C

2.2 The simulation data

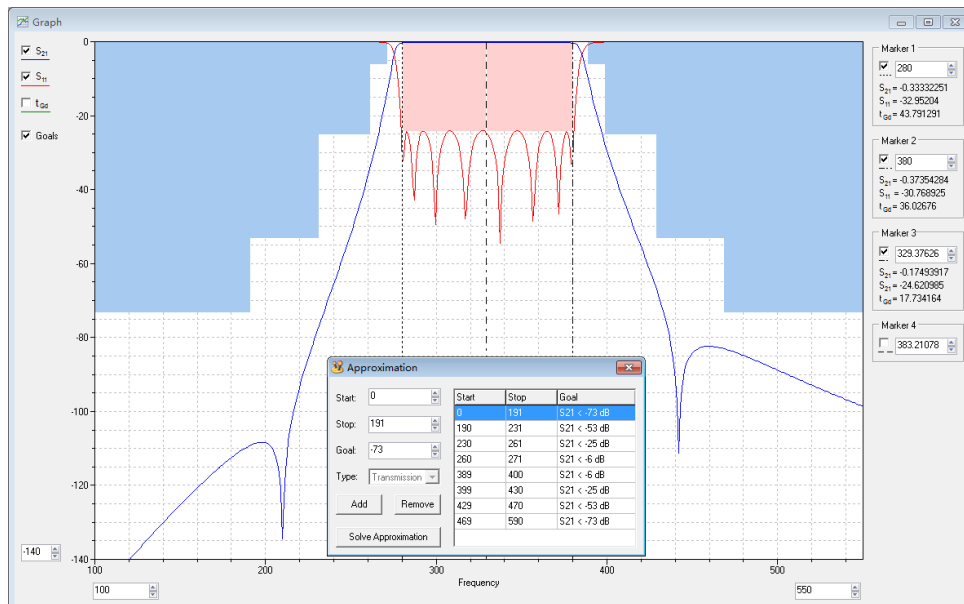


Figure 2 The simulation curve of the Filter

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