

Technical Proposal for JX-CF1-864M872M-80S Cavity Filter

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

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/09/23	Lin liqun	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-864M872M-80S

Dimension	LxWxH: 54mm x 54mm x 38mm(45mm Max)
Port connectors	SMA-Female
Finish	White
Notes	Material shall be RoHS 6/6

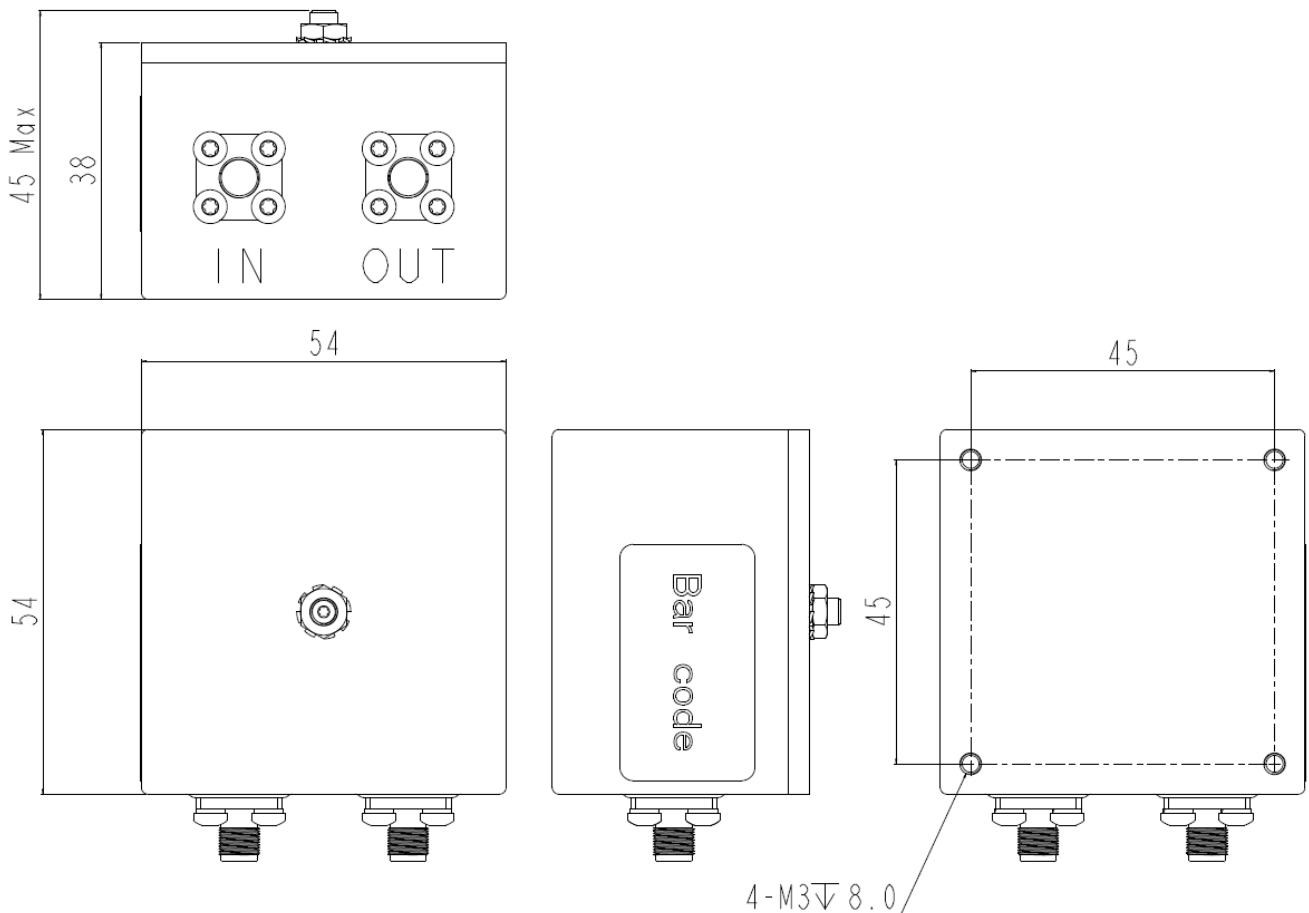


Figure 1 JX-CF1-864M872M-80S front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-864M872M-80S

Item	Parameter	Specification
1	Frequency range	864-872MHz
2	VSWR	≤ 1.2
3	Insertion loss	$\leq 1.0\text{dB}$
4	Ripple	$\leq 0.2\text{dB}$
5	Rejection	$\geq 80\text{dB}$ @ 721-735MHz
6	Average power	30W (Max)
7	Impedance	50Ω
8	Temperature range	-10°C to $+50^{\circ}\text{C}$

2.2 The simulation curve

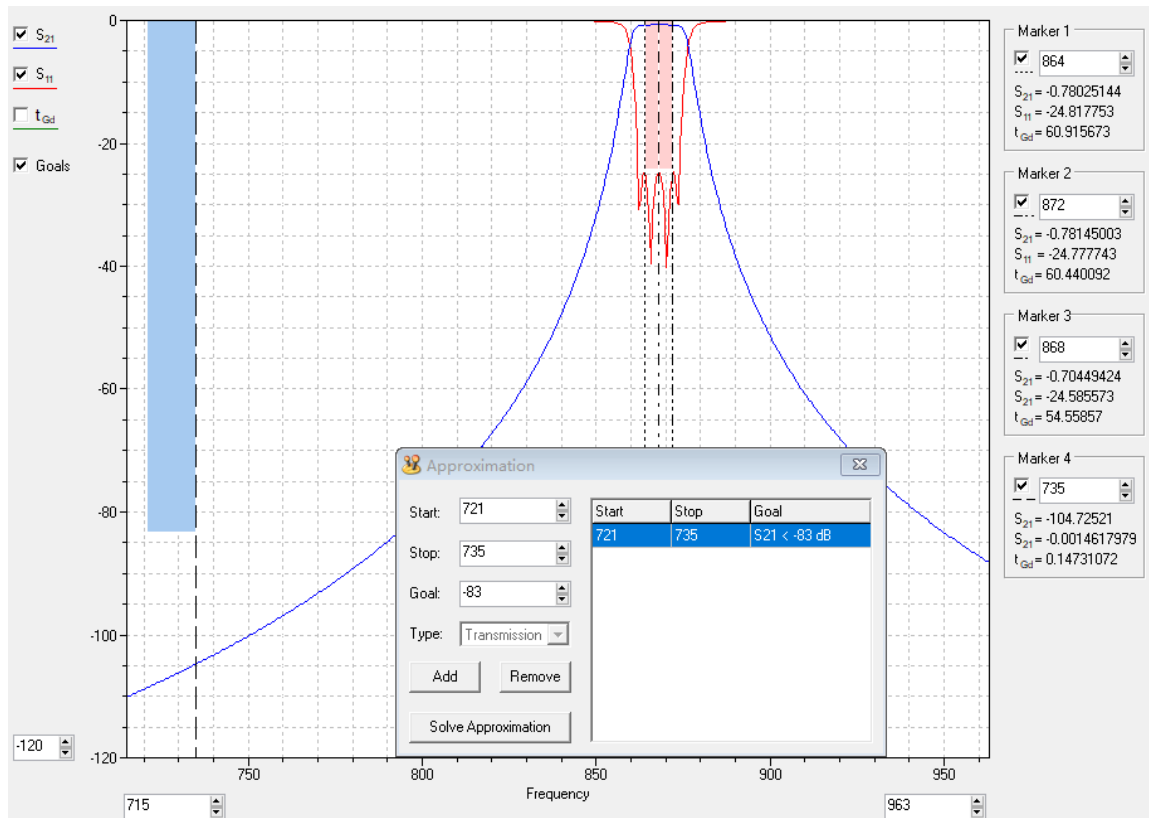


Figure 2 The simulation curve of the Filter

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