

Technical proposal for JX-CF1-864M872M-80NWP Cavity Filter

- ◆ High Performance
- ◆ High Reliability
- ◆ IP67

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2022/02/15	Lin liqun	Created	/
V1.1	2022/02/22	Lee	Updated the mechanical layout	Customer request

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1. Mechanical layout

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

Dimension	L x W x H: 86mm x 67mm x 48mm
Port connectors	Input: N-Female Output: N-Male
Finish	Gray powder spraying (Akzo Nobel RA7035)
IP protection	IP67
Notes	Material shall be RoHS 6/6

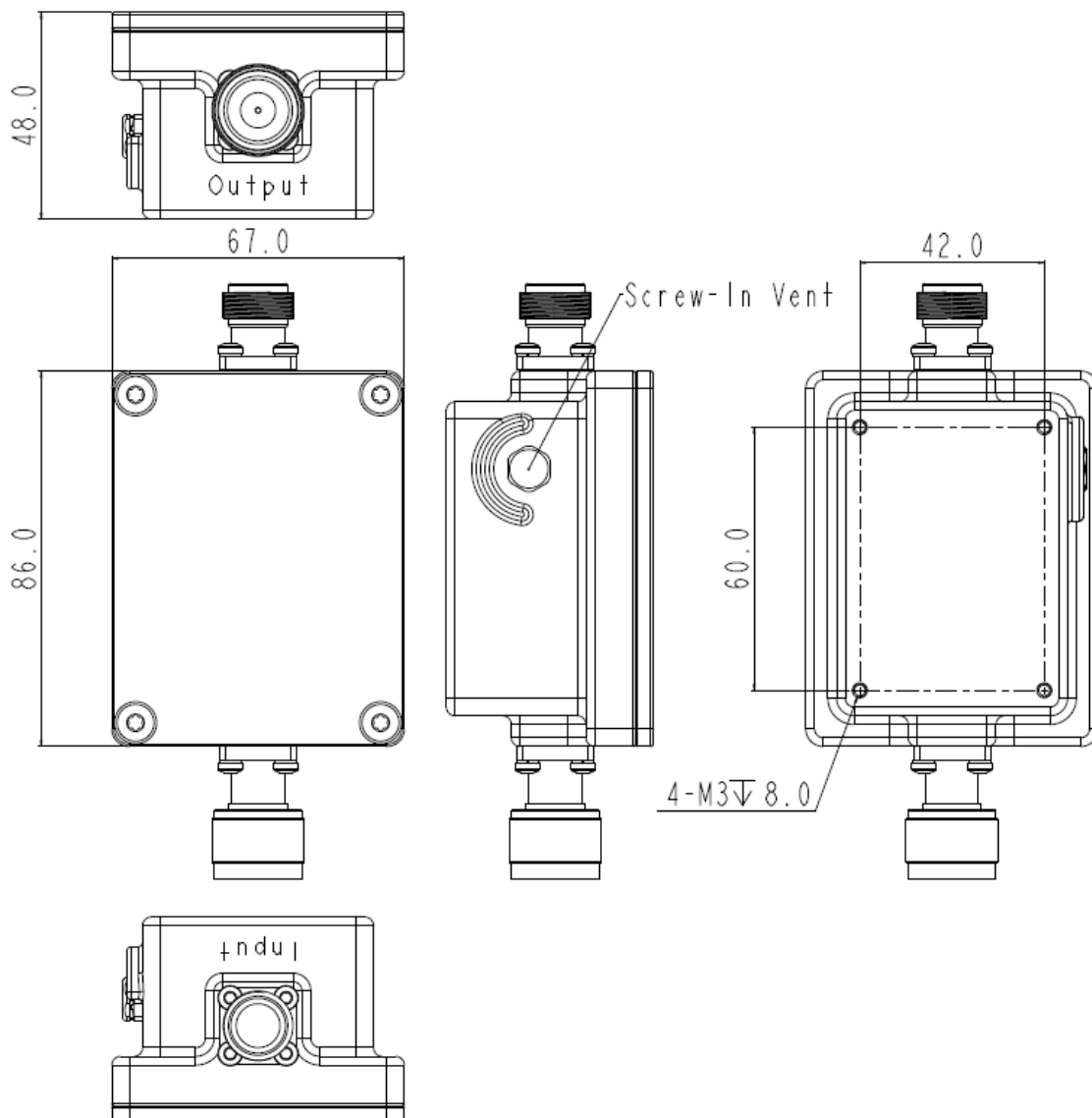


Figure 1 JX-CF1-864M872M-80NWP front panel layout

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2. Electrical analysis

2.1 Electrical specification

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

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	$\geq 80\text{dB}@721-735\text{MHz}$
6	Average power	30W(Max)
7	Impedance	50 Ω
8	Temperature range	-10°C to+50°C

2.2 The simulation curve

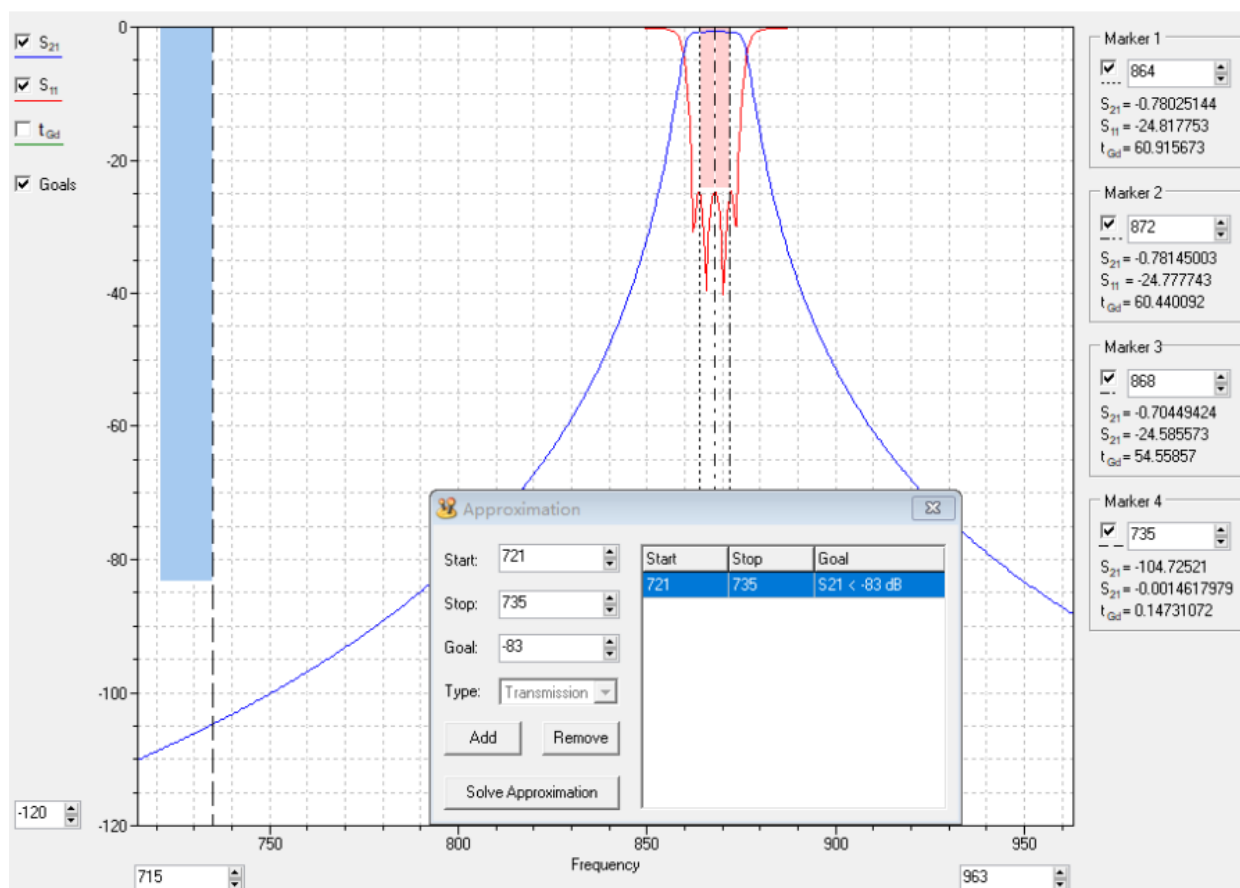


Figure 2 The simulation curve of the filter

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