

Technical Proposal for JX-CF1-860M870M-40NWP Cavity Filter

- ◆ High Rejection
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/01/09	Sam Chen	Created	/
V1.1	2020/01/11	Sam Chen	Update width size on outline drawing	95mm to 75mm
V1.2	2020/01/14	Sam Chen	Update frequency	860-870MHz to 863-870MHz

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-860M870M-40NWP

Dimension	LxWxH: 120mm x 75mm x 41mm
Port connectors	In: N-Female; Out: N-Male
IP protection	IP65
Finish	Gray powder spraying (Akzo Nobel RA7035)
Notes	Material shall be RoHS 6/6

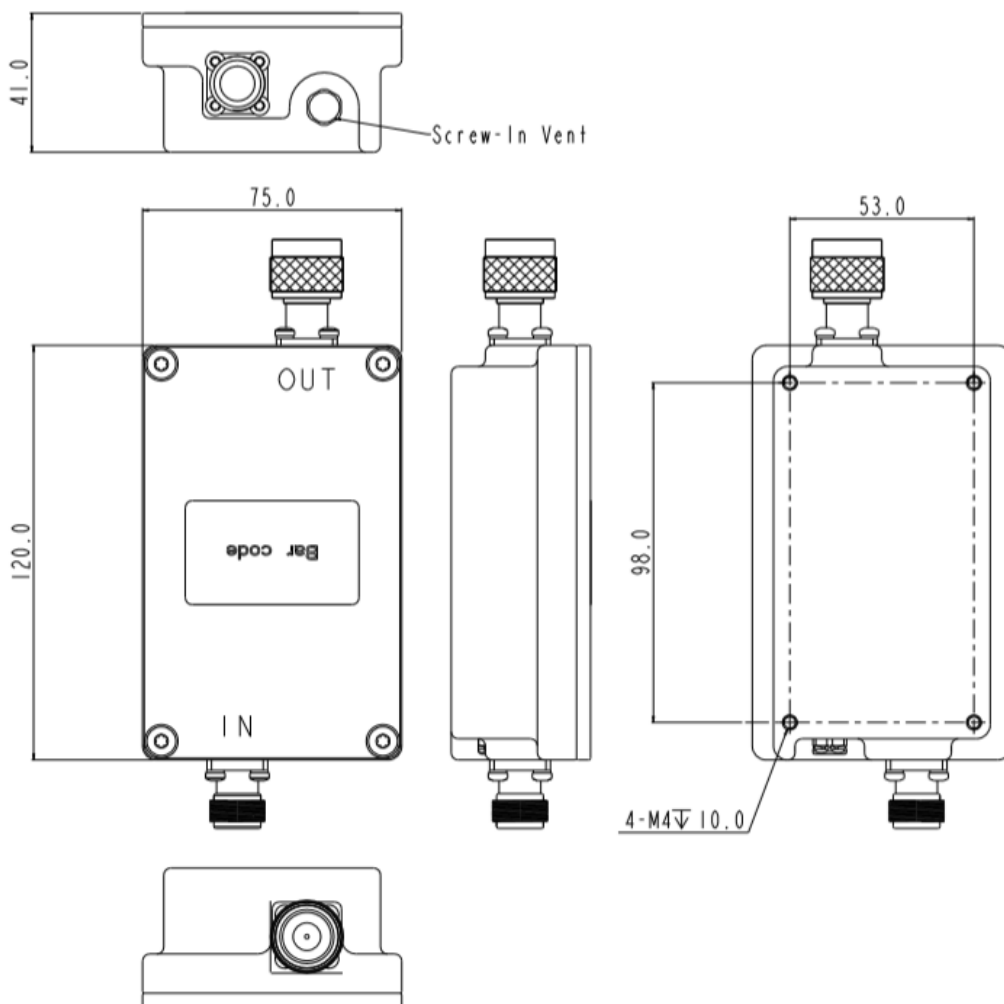


Figure 1 JX-CF1-860M870M-40NWP front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-860M870M-40NWP

Item	Parameter	Specification
1	Frequency Range	863-870 MHz
2	Return Loss	≤ 18 dB
3	Insertion Loss	≤ 2.0 dB
4	Rejection	≥ 40 dB @ DC-850MHz ≥ 40 dB @ 876-2700MHz
5	Power	5W
6	Temperature range	-30 to +55°C
7	Impedance	50 Ω

2.2 The simulation curve

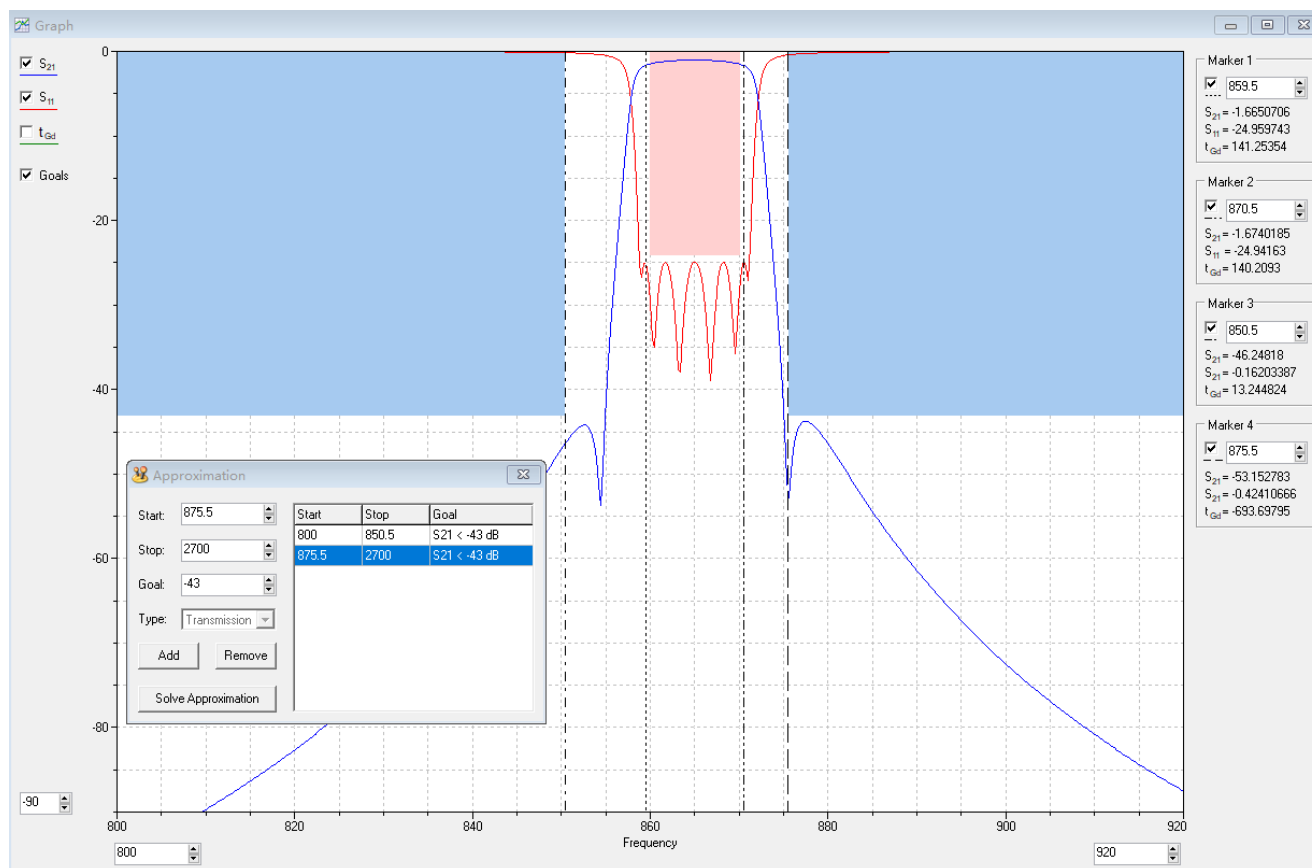


Figure 2 The simulation curve of the Filter

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