

Technical Proposal for JX-CF1-1980M2098M-60N Cavity Filter

- ◆ Low Insertion loss
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/08/22	Lin liqun	Created	/
V1.1	2019/11/28	Lee	Increased harmonic specification	Customer request
V1.2	2020/01/14	Lee	Updated the power: 50W → 100W	Customer request

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-1980M2098M-60N

Dimension	LxWxH: 175mm x 75mm x 35mm (41mm Max)
Port connectors	N-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

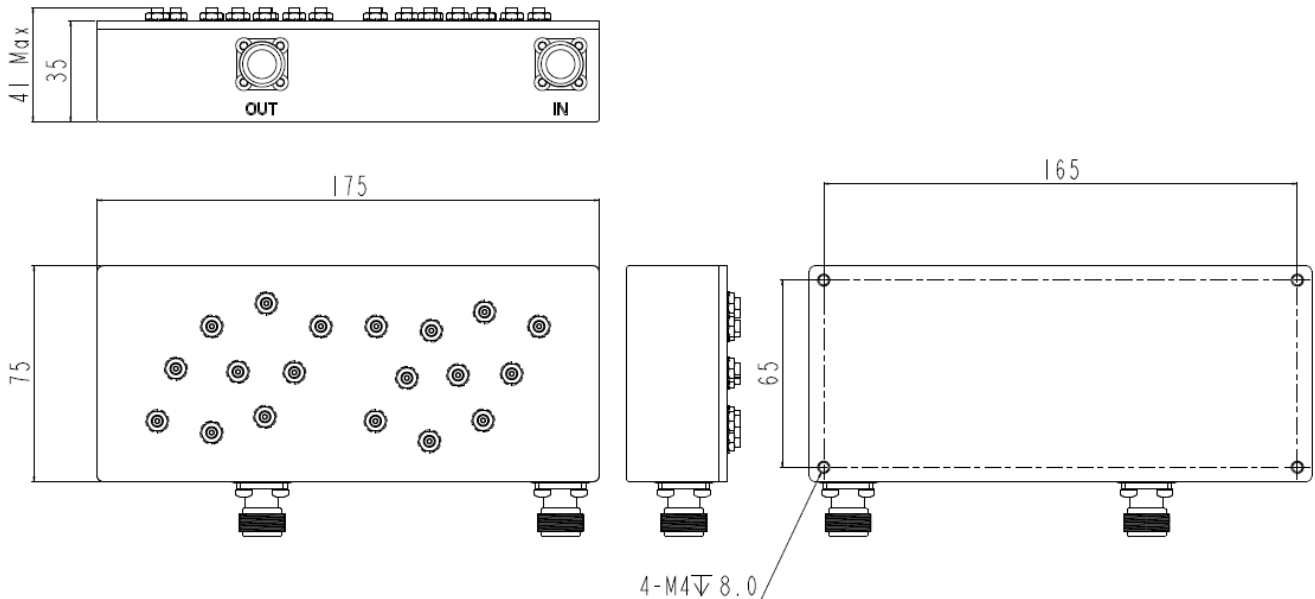


Figure 1 JX-CF1-1980M2098M-60N front panel layout

2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-1980M2098M-60N

Item	Parameter	Specification
1	Frequency range	1980-2098MHz
2	Return loss	≥15dB
3	Insertion loss	≤1.0dB
4	Rejection	≥60dB@2110-2170MHz
5	Harmonics (2nd/3rd)	≥35dB@3940-4196MHz & 5940-6294MHz
6	Power	100W
7	Impedance	50Ω

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2.2 The simulation curve

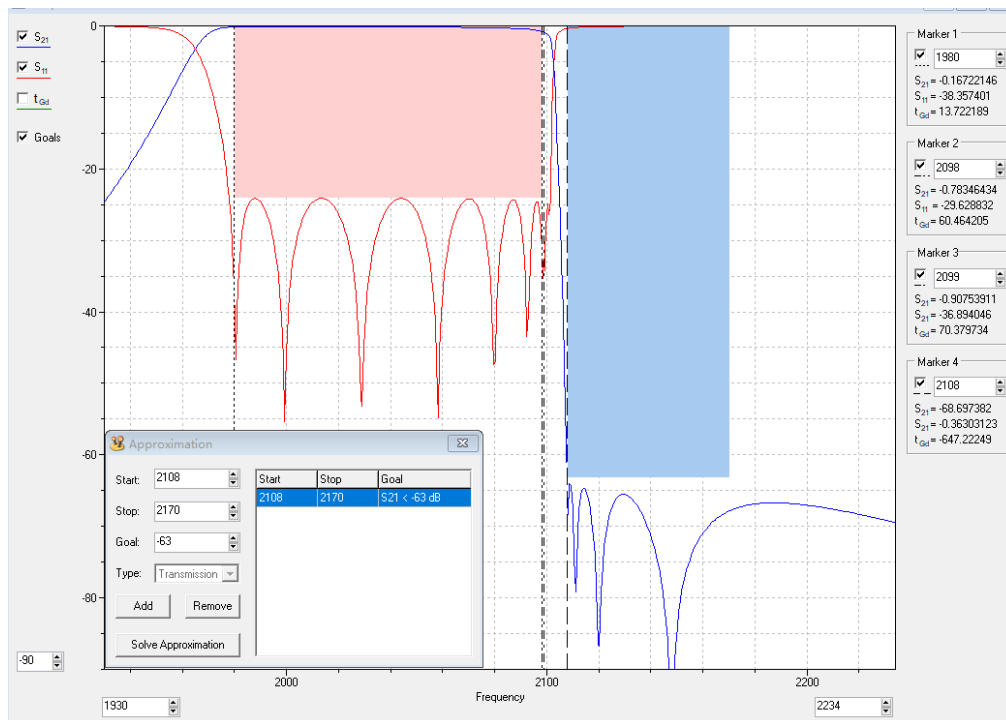


Figure 2 The simulation curve of the Bandpass

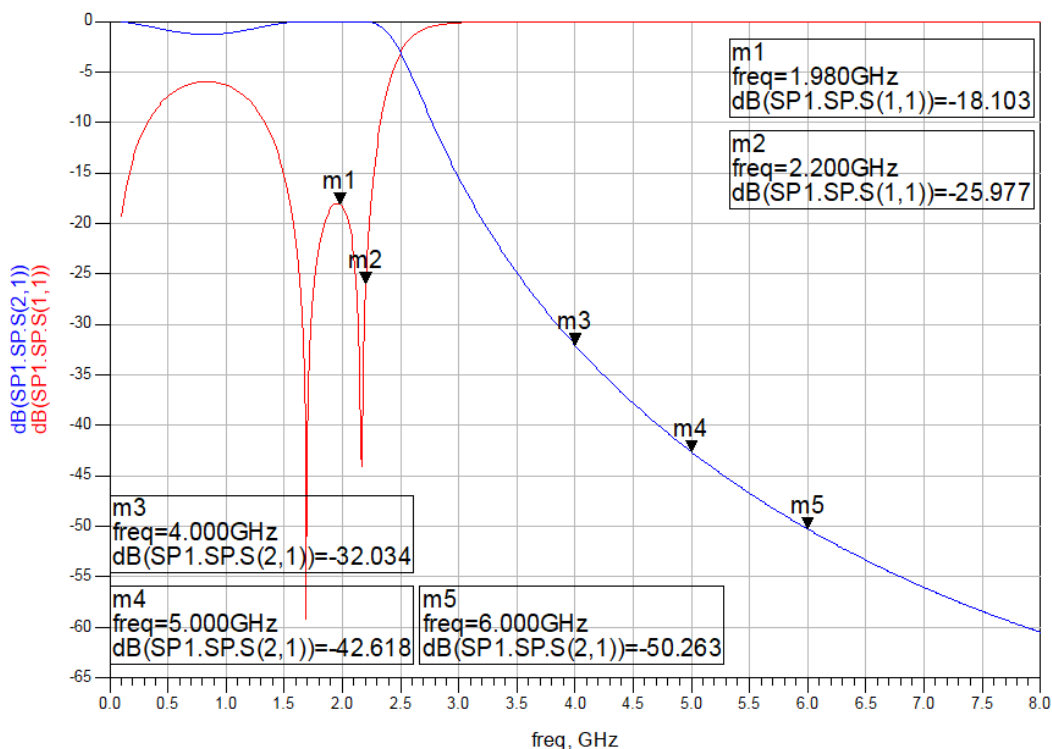


Figure 3 The simulation curve of the Lowpass

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