

# Technical proposal for JX-CF1-2550M2590M-N5 Cavity Filter

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/05/25	Lee	Created	/

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## 1. Mechanical layout

Table 1 Mechanical specifications @ JX-CF1-2550M2590M-N5

Dimension	LxWxH: 158mm x 86mm x 44.5mm
Connectors	Input: N-Male ; Output: N-Female
Finish	Gray
Grade of Waterproofing	IP65
Notes	Material shall be RoHS 6/6

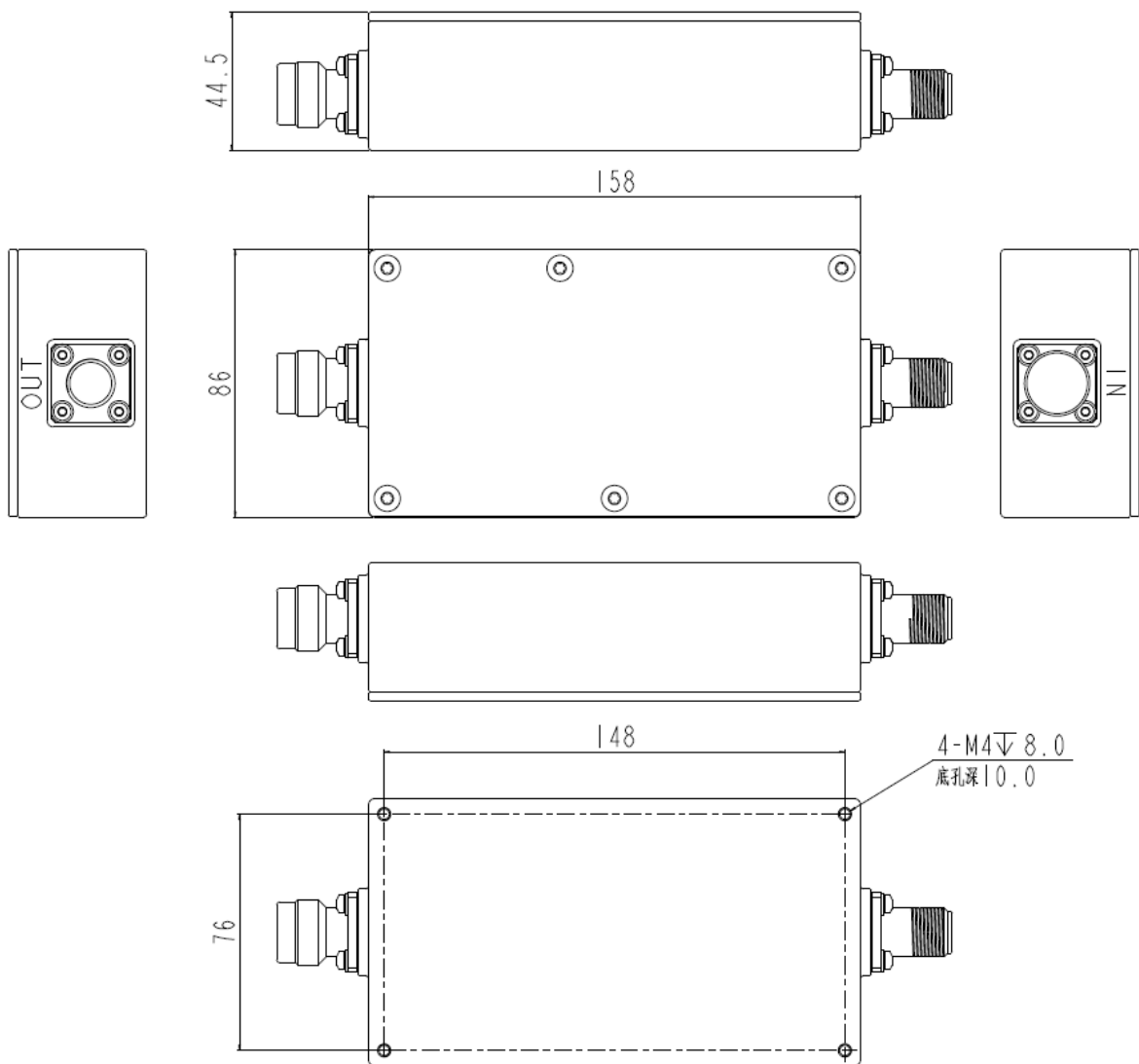


Figure 1 JX-CF1-2550M2590M-N5 front panel layout

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## 2. Electrical analysis

### 2.1 Schematic diagram of the Filter

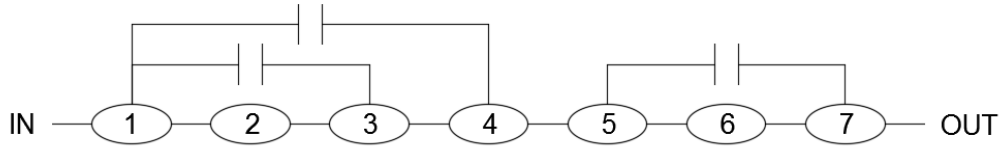


Figure 2 Topology of the Filter

### 2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-2550M2590M-N5

Item	Parameter	Specification	JX Suggest
1	Frequency range	2550-2590MHz	/
2	Return loss	≥18dB	OK
3	Insertion loss	≤1.0dB	OK
4	Ripple	≤0.5dB	OK
5	Rejection	≥40dB@2540MHz    ≥20dB@2600MHz	OK
6	Average Power	30W	OK
7	Impedance all ports	50 Ohm	OK
8	Operating temperature range	0°C to 55°C	OK

### 2.3 The simulation curve

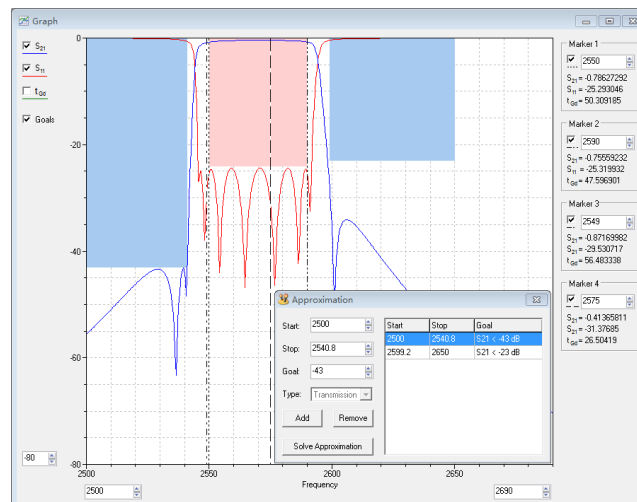


Figure 3 The simulation curve of the Filter

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