

Technical proposal for JX-CF1-380420-5RN Cavity Filter

Revision History

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CF1-380420-5RN

Dimension	LxWxH: 260mm x 96mm x 45mm (Included Bracket & Connector)
Port connectors	N-Female
Finish	Black
Notes	Material shall be RoHS 6/6

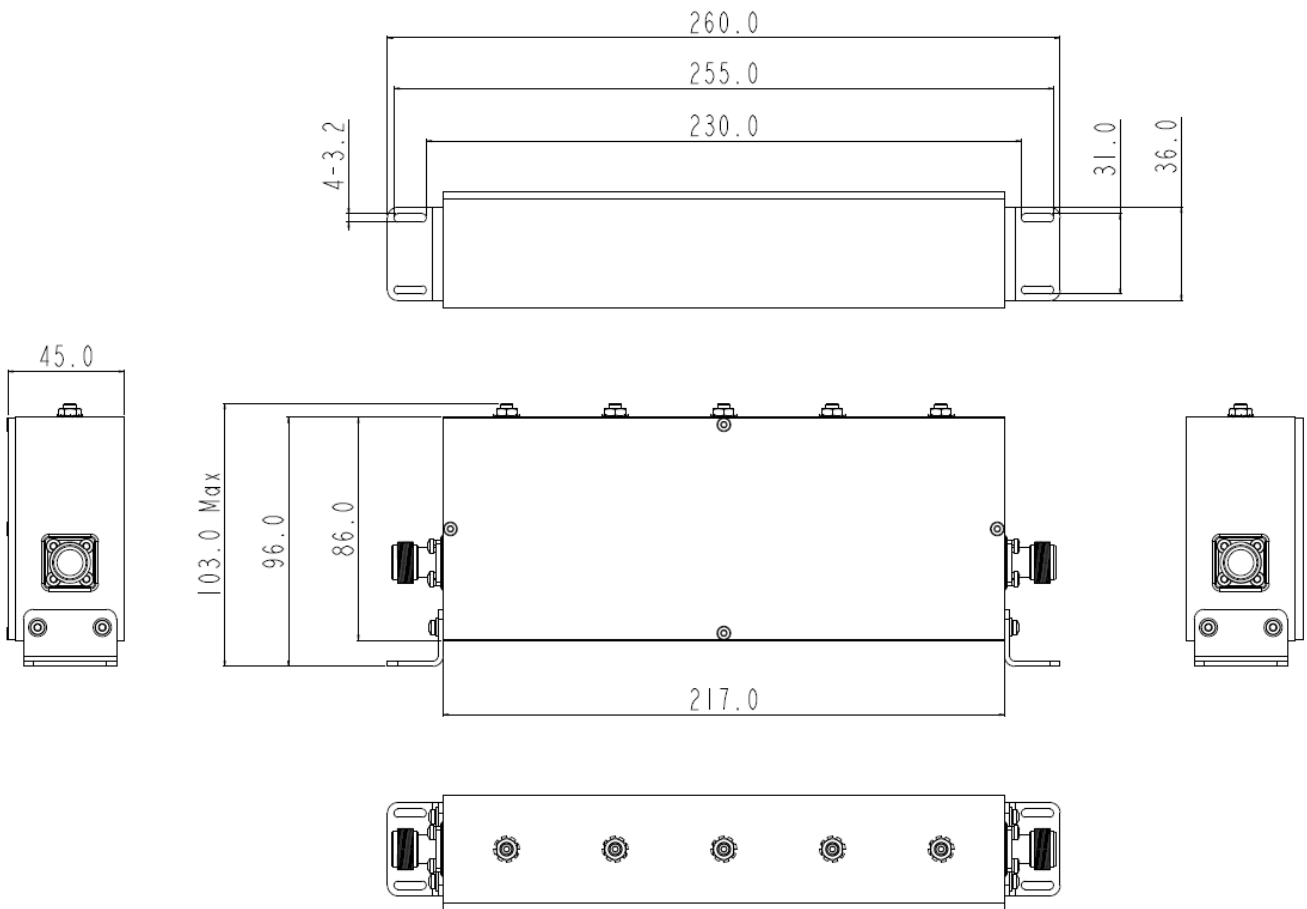


Figure 1 JX-CF1-380420-5RN front panel layout

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2. Electrical analysis

2.1 Schematic diagram of the Filter

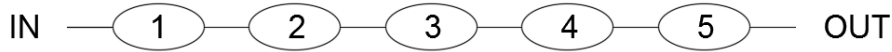


Figure 2 Topology of the Filter

2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CF1-380420-5RN

Item	Frequency Band	380-420 MHz	JX Suggest
1	Bandwidth	2-10 MHz	OK
2	VSWR	1.25 : 1	OK
3	Insertion loss	≤2.0 dB	OK
4	Number of Resonators	5	OK
5	Impedance all ports	50 Ohms	OK
6	Temperature Range	-30°C to +60°C	OK

2.3 The simulation curve

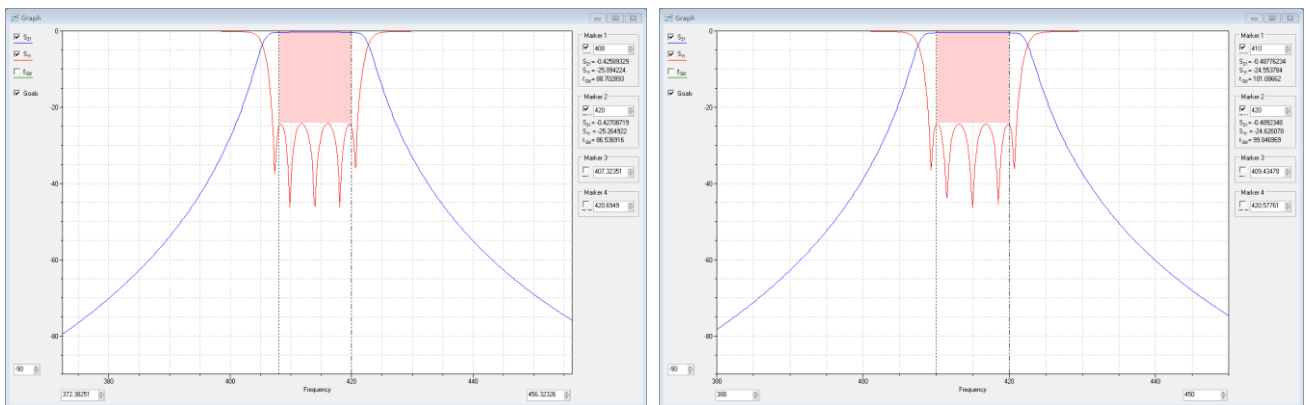


Figure 3 The simulation curve of the Filter in 2MHz Bandwidth and 10MHz Bandwidth

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