

Technical proposal for JX-CD3-380M460M-60N3 Cavity Triplexer

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2023/11/14	Sam Chen	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CD3-380M460M-60N3

Dimension	LxWxH: 224 mm x174 mm x54 mm (61mm Max)
Connectors	N-Female
Finish	Silver
Weight	2.2kg
Humidity	5-95%
Notes	Material shall be RoHS 6/6

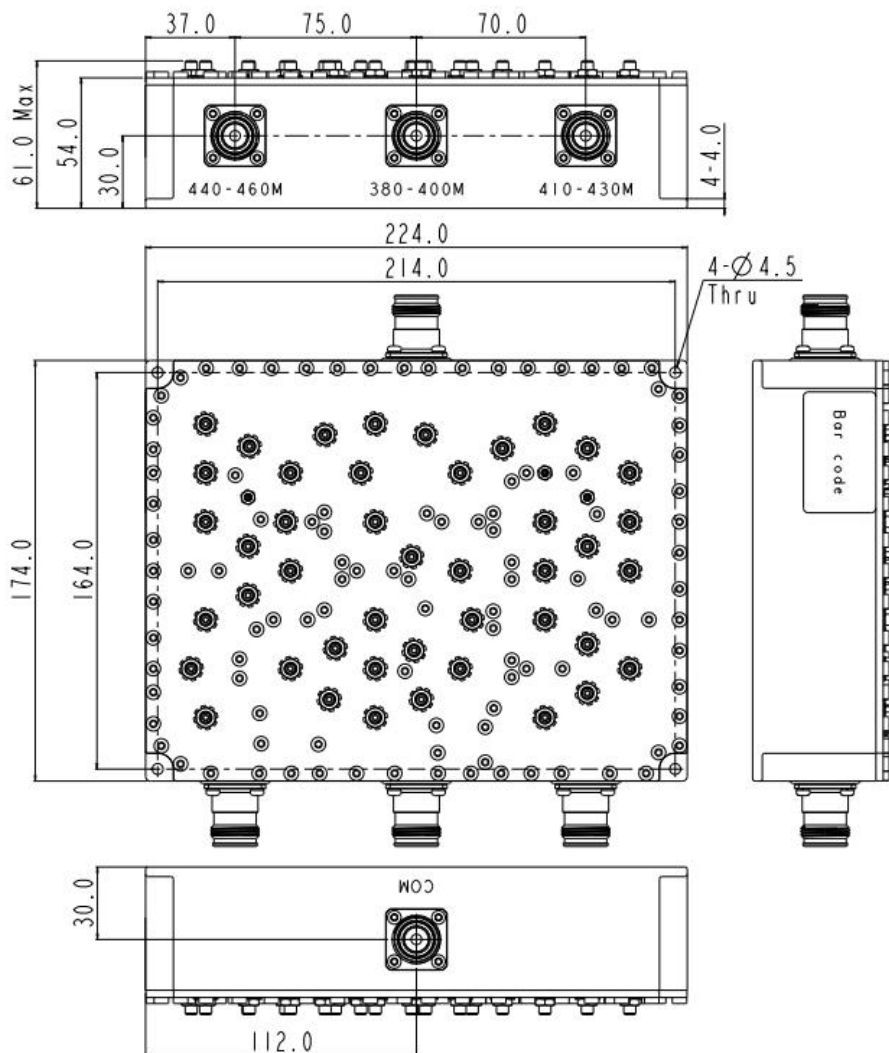


Figure 1 JX-CD3-380M460M-60N3 front panel layout

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2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications @ JX-CD3-380M460M-60N3

Item	Parameter	380-400M	410-430M	440-460M
1	Frequency range	380-400MHz	410-430MHz	440-460MHz
2	Return loss	≥20dB	≥20dB	≥20dB
3	Insertion loss	≤1.0dB	≤1.0dB	≤1.0dB
4	Isolation	≥60dB @380-400MHz&410-430MHz&440-460MHz		
5	PIM3	-153dBc@2*43dBm	/	/
6	Power	≤100W		
7	Operating temp	-40°C to +60°C		
8	Impedance	50 Ω		

2.2 The simulation curve

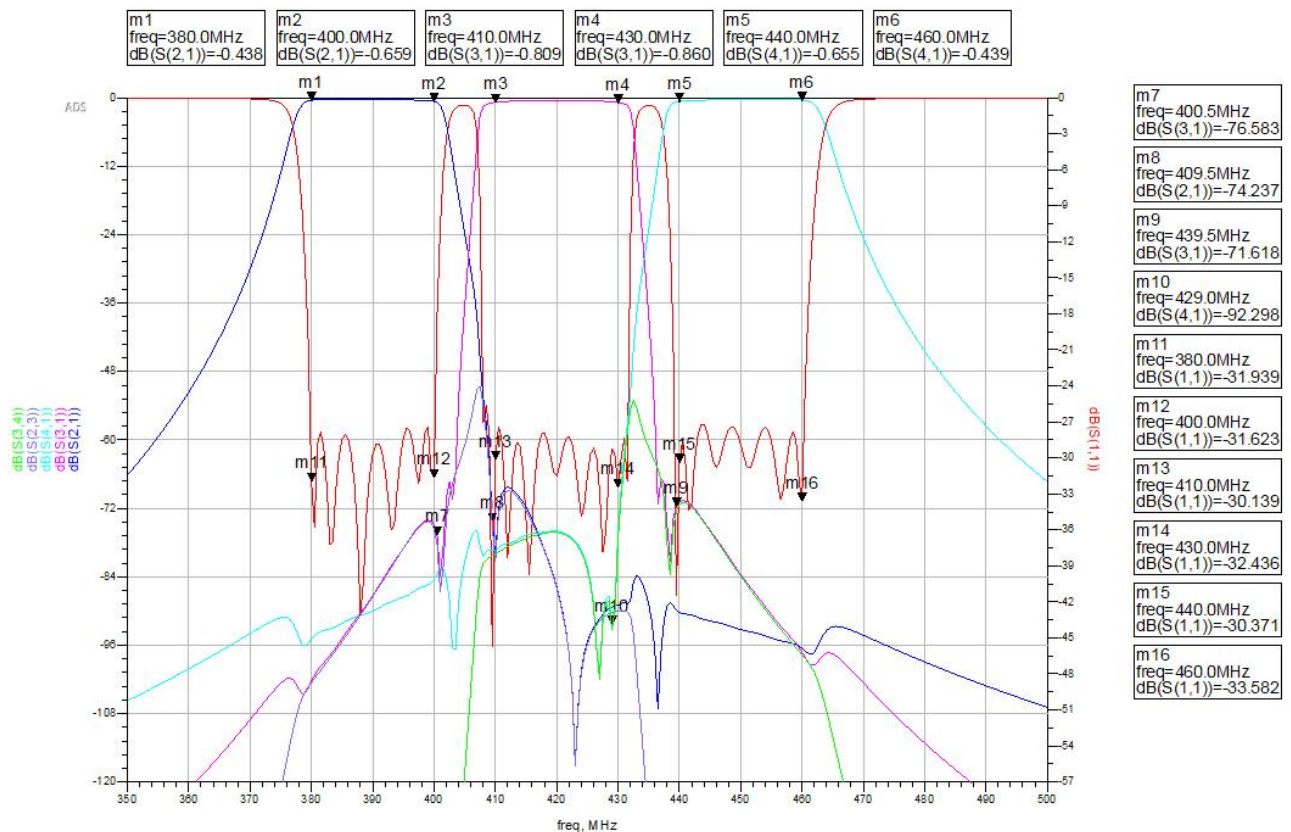


Figure 2 The simulation curve of the Triplexer

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