

Technical proposal for JX-CD4-380M425M-65S Cavity Duplexer

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2021/12/03	Lin liqun	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CD4-380M425M-65S

Dimension	L x W x H: 290mm x 106mm x 73mm (79mm Max)
Mounting	Wall Mounted
Connectors	SMA-Female
Finish	Black
Notes	Material shall be RoHS 6/6

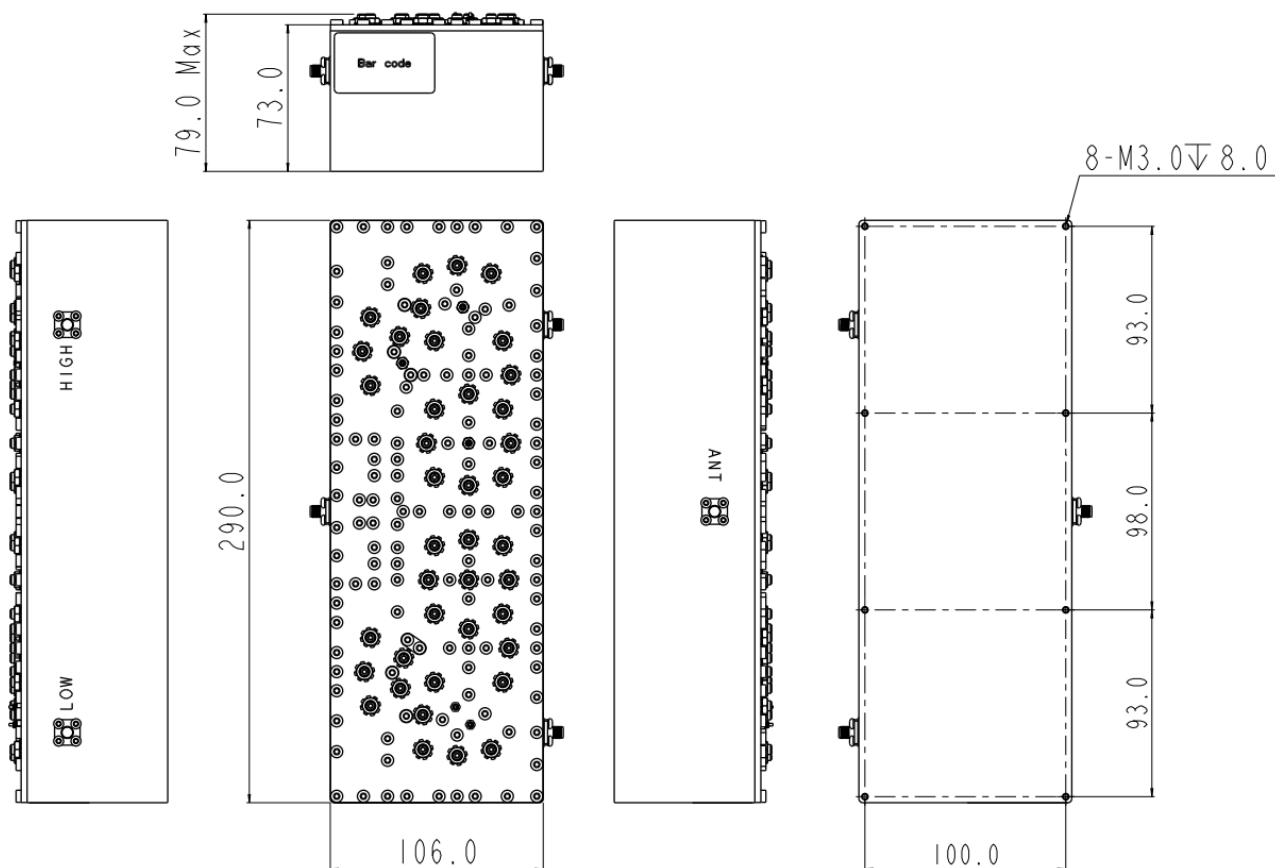


Figure 1 JX-CD4-380M425M-65S front panel layout

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2. Electrical analysis

2.1 Electrical specification

Table 2 Electrical specifications @ JX-CD4-380M425M-65S

Item	Parameter	LOW		HIGH	
		380-386.5MHz	410-415MHz	390-396.5MHz	420-425MHz
1	Frequency range	380-386.5MHz	410-415MHz	390-396.5MHz	420-425MHz
2	Return loss(Normal temp)	≥16 dB	≥16 dB	≥16 dB	≥16 dB
	Return loss(Full temp)	≥16 dB	≥16 dB	≥16 dB	≥16 dB
3	Insertion loss(Normal temp)	≤1.8 dB	≤1.8 dB	≤1.8 dB	≤1.8 dB
	Insertion loss(Full temp)	≤2.0 dB	≤2.0 dB	≤2.0 dB	≤2.0 dB
4	Rejection	≥65dB@390-396.5 MHz ≥65dB@420-425M Hz	≥53dB@390-396.5 MHz ≥65dB@420-425M Hz	≥65dB@380-386.5 MHz ≥60dB@410-415M Hz	≥65dB@380-386.5 MHz ≥65dB@410-415M Hz
5	Power handling	20W Avg			
6	Impedance	50 Ω			
7	Operating temperature rang	-10°Cto+60°C			

2.2 The simulation curve

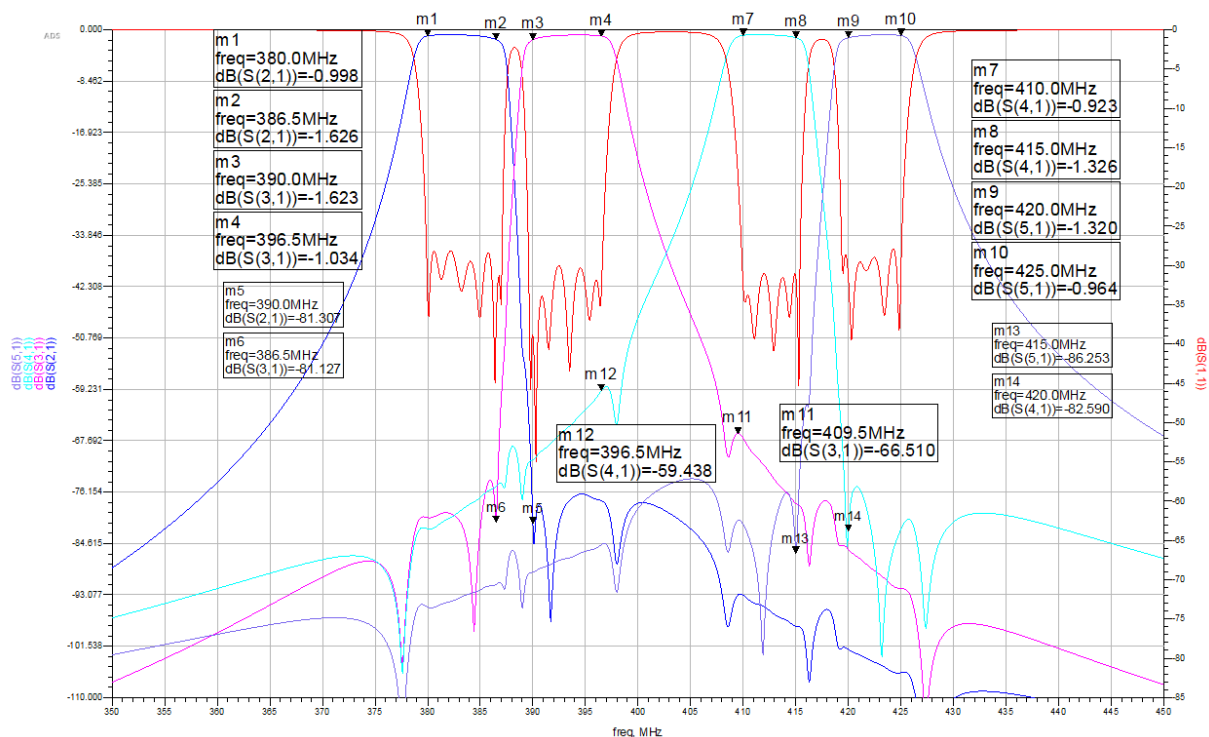


Figure 2 The simulation curve of the duplexer

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