

Technical Proposal for JX-CD4-380M470M-65S Cavity Duplexer

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/10/08	Lee	Created	/
V1.1	2018/12/25	Lee	Update the electrical specifications	The sample test results

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CD4-380M470M-65S

Dimension	LxWxH: 276mm x 106mm x 76mm (79 mm Max)
Mounting	Wall Mounted
Port connectors	SMA-Female
Finish	Black
Notes	Material shall be RoHS 6/6

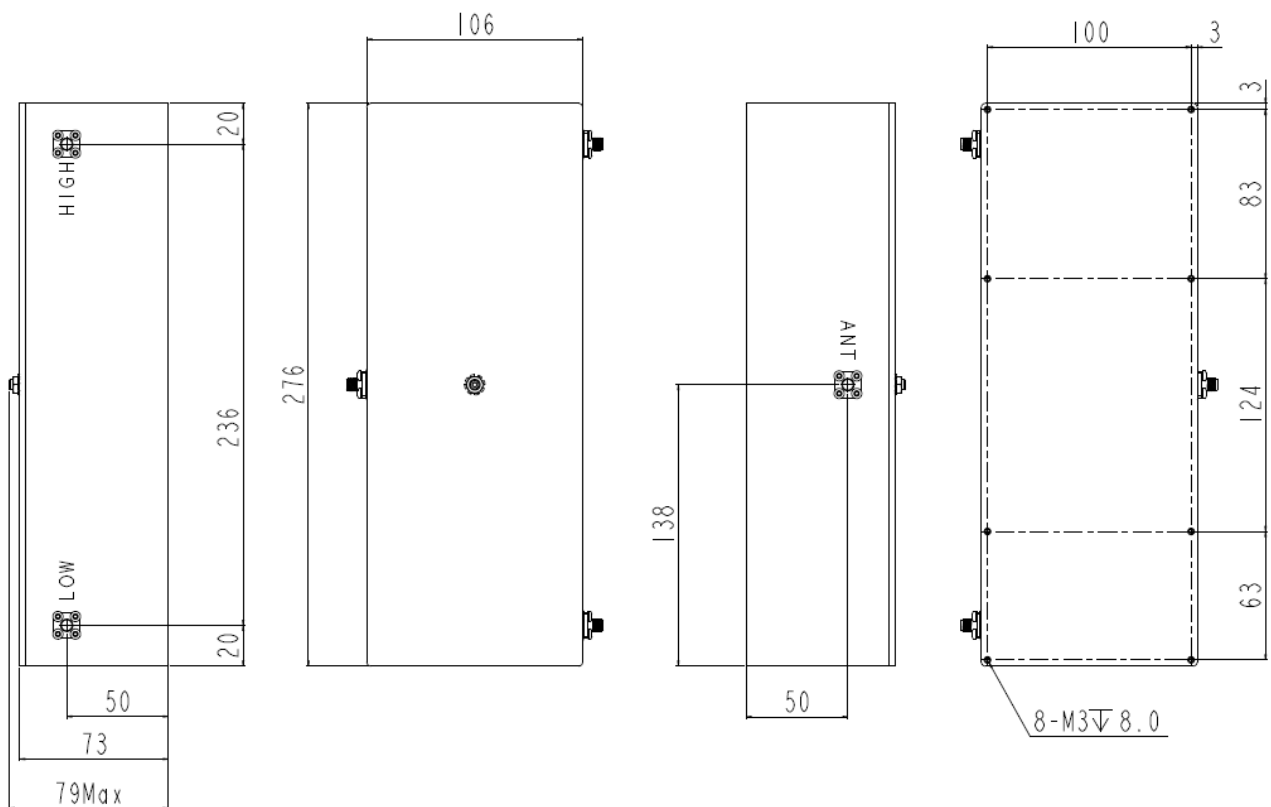


Figure 1 JX-CD4-380M470M-65S front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CD4-380M470M-65S

Item	Parameter	LOW		HIGH	
		380-386.5MHz	455-460MHz	390-396.5MHz	465-470MHz
1	Frequency Range	380-386.5MHz	455-460MHz	390-396.5MHz	465-470MHz
2	Return Loss(Normal temp)	≥16dB		≥16dB	
	Return Loss(Full temp)	≥16dB		≥16dB	
3	Insertion Loss(Normal temp)	≤1.9dB		≤1.9dB	
	Insertion Loss(Full temp)	≤2.2dB		≤2.2dB	
4	Rejection	≥65dB @390-396.5MHz&465-470MHz		≥65dB @380-386.5MHz&455-460MHz	
5	Power Handling	20 W Avg			
6	Impedance	50 Ω			
7	Operating Temperature Range	-10°C to +60°C			

2.2 The simulation curve

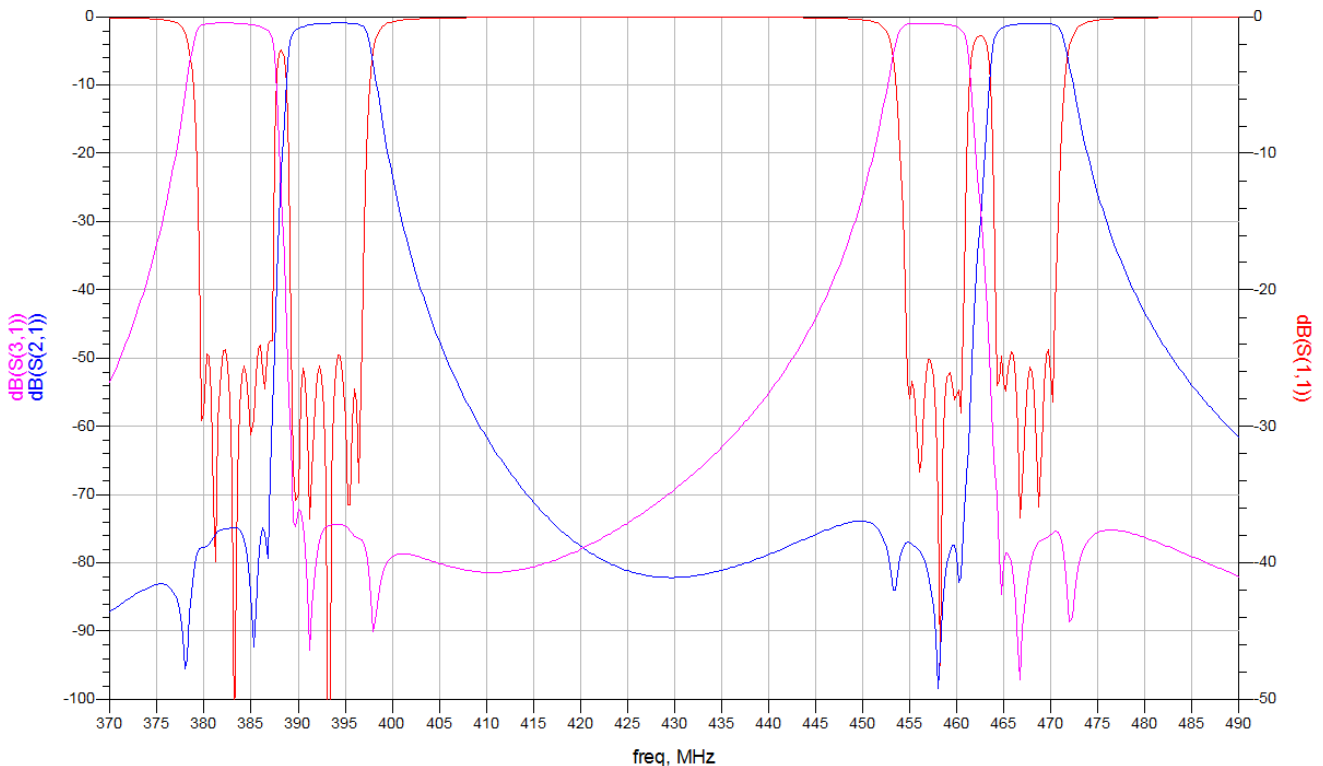


Figure 2 The simulation curve of the duplexer

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