

Technical proposal for JX-CD2-1710M1880M-60NWP Cavity Duplexer

◆ High Performance ◆ High Reliability ◆ IP66

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/10/23	Lin liqun	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CD2-1710M1880M-60NWP

Dimension	LxWxH: 170mm x 130mm x 42mm
Port connectors	N-Female
Finish	Gray, Akzo Nobel RA7035, Powder spraying
Application environment	Outdoor use / IP66
Notes	Material shall be RoHS 6/6

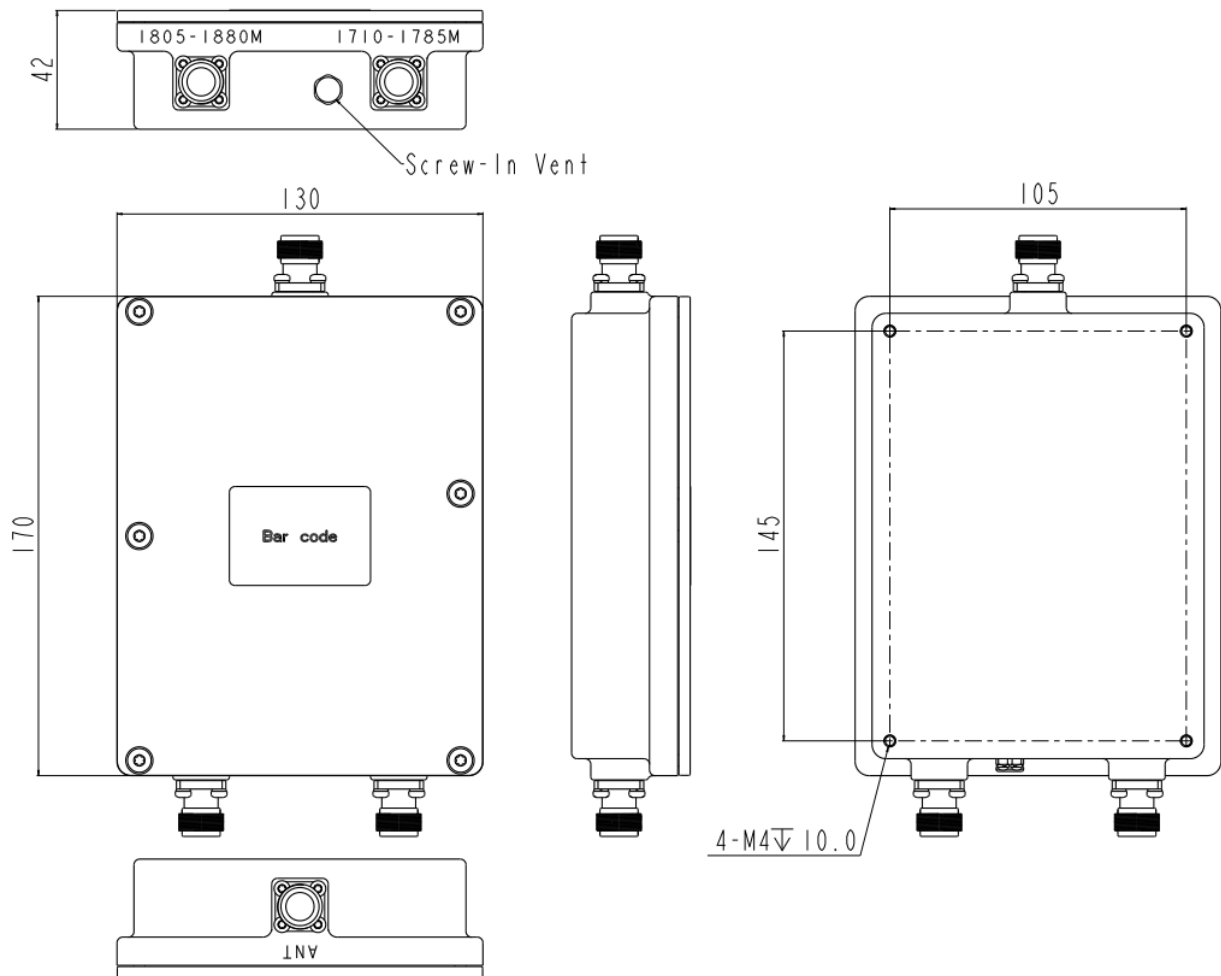


Figure 1 JX-CD2-1710M1880M-60NWP front panel layout

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2. Electrical analysis

2.1 Schematic diagram of the duplexer

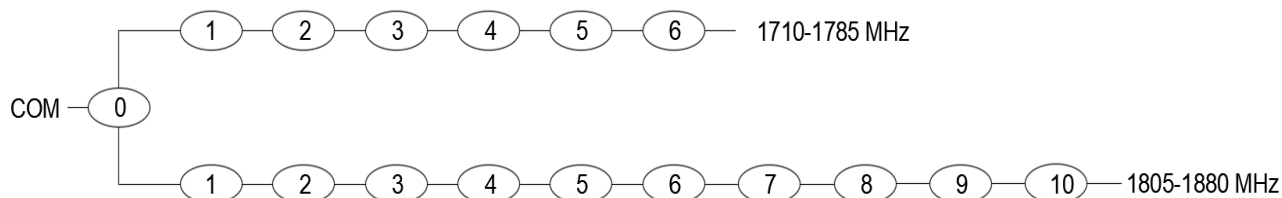


Figure 2 Topology of the duplexer

2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CD2-1710M1880M-60NWP

Item	Parameter	UL	DL
1	Frequency range	1710-1785 MHz	1805-1880 MHz
2	Return loss	≥15 dB	≥15 dB
3	Insertion loss	≤0.8 dB	≤2.0 dB
4	Rejection	/	≥3 dB @ 1800MHz
			≥40 dB @ 1885MHz
5	Isolation	≥60dB @ UL&DL	
6	power	≥10W (UL)	
		≥120W (DL)	
		≥120w (Out)	
7	Impedance	50 Ω	

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2.3 The simulation curve

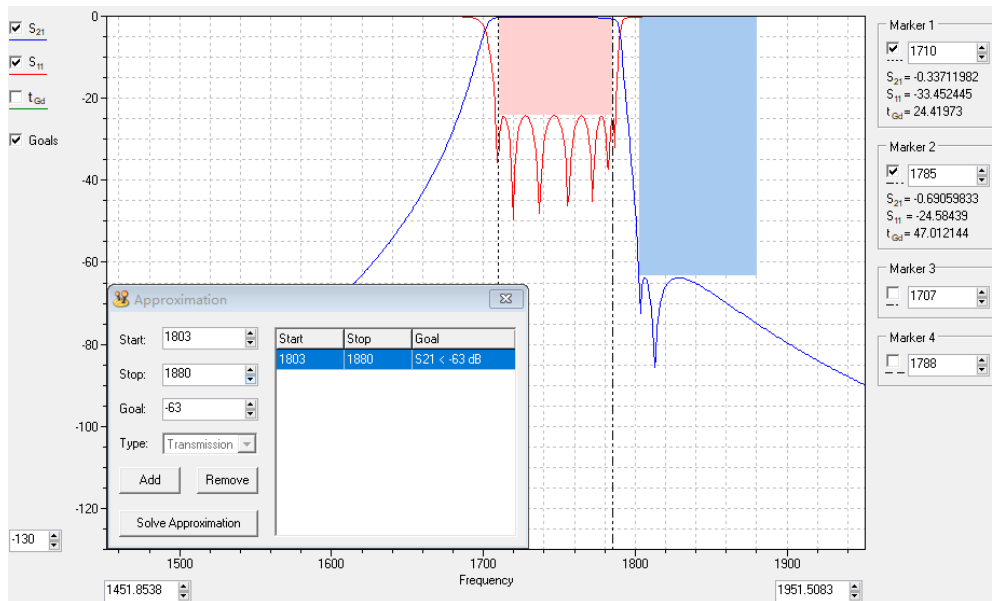


Figure 3 The simulation curve 1710-1785MHz

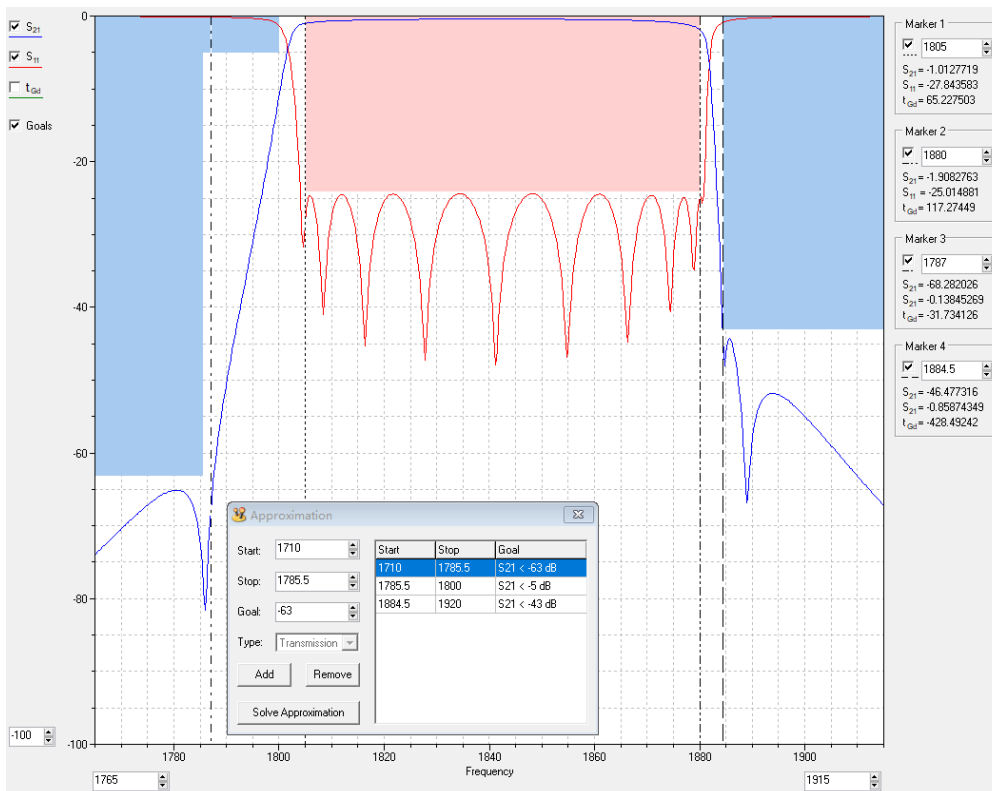


Figure 4 The simulation curve 1805-1880MHz

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