

Technical Proposal for JX-CD2-1850M1995M-70NWP Cavity Duplexer

- ◆ Low Insertion Loss
- ◆ High Rejection
- ◆ IP66 Outdoor Use
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/08/02	Lee	Created	/

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CD2-1850M1995M-70NWP

Dimension	LxWxH: 125mm x 105mm x 32mm
Port connectors	N-female 4 holes flange
Finish	Gray, Akzo Nobel RA7035, Powder spraying
Application environment	Outdoor use / IP66
Mounting	4-M4 screws
Notes	Material shall be RoHS 6/6

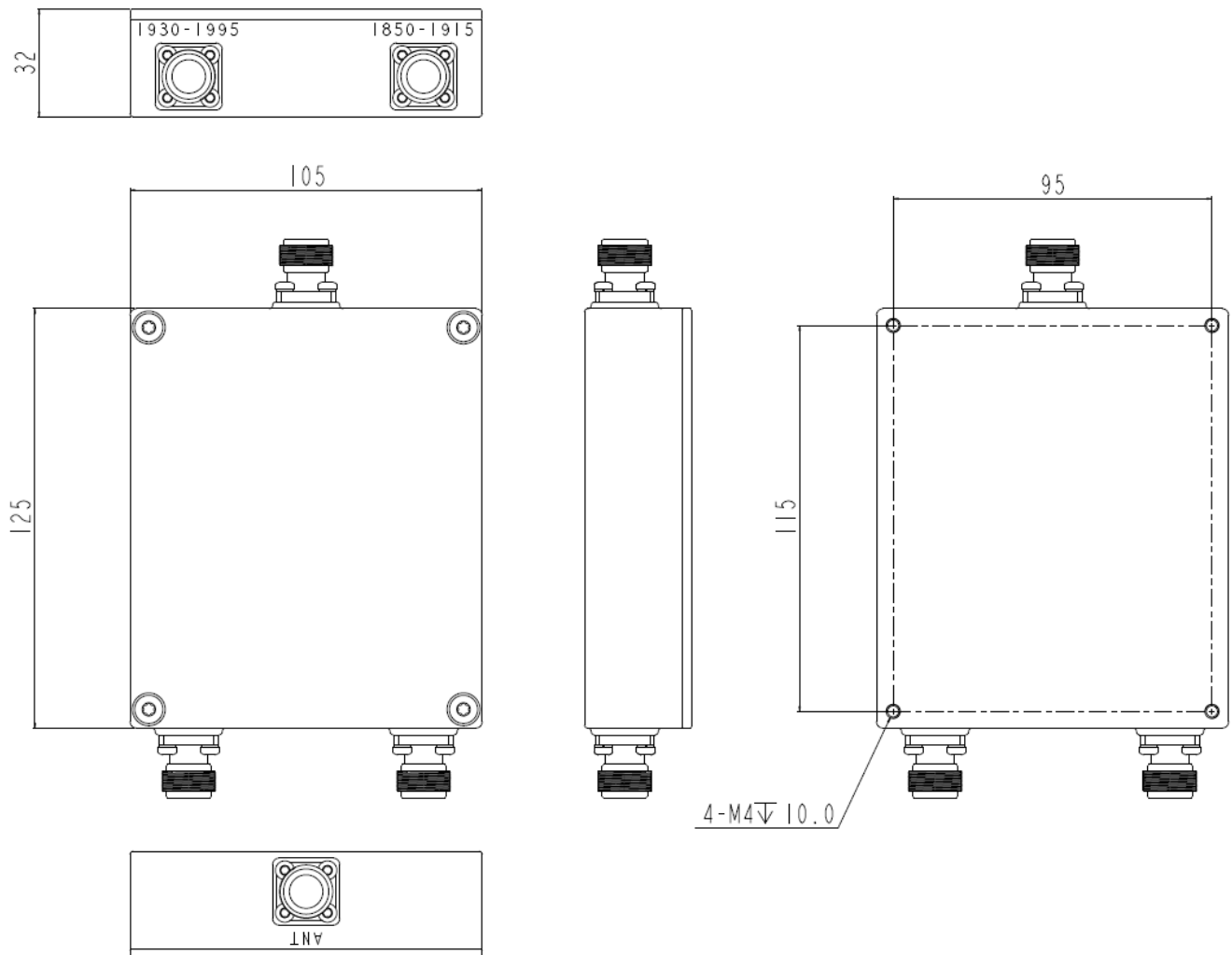


Figure 1 JX-CD2-1850M1995M-70NWP front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CD2-1850M1995M-70NWP

Item	Parameter	LOW	HIGH
1	Frequency range	1850-1915 MHz	1930-1995 MHz
2	Return loss	≥18 dB	≥18 dB
3	Insertion loss	≤1.5 dB	≤1.5 dB
4	In-band ripple	≤1.1 dB	≤1.1 dB
5	Rejection	≥70 dB@1930-1995 MHz	≥70 dB@1850-1915 MHz
6	Maximum Power Handling	100 W	
7	Impedance all ports	50 Ohm	
8	Temperature range	-20 °C to +70 °C	

2.2 The simulation curve

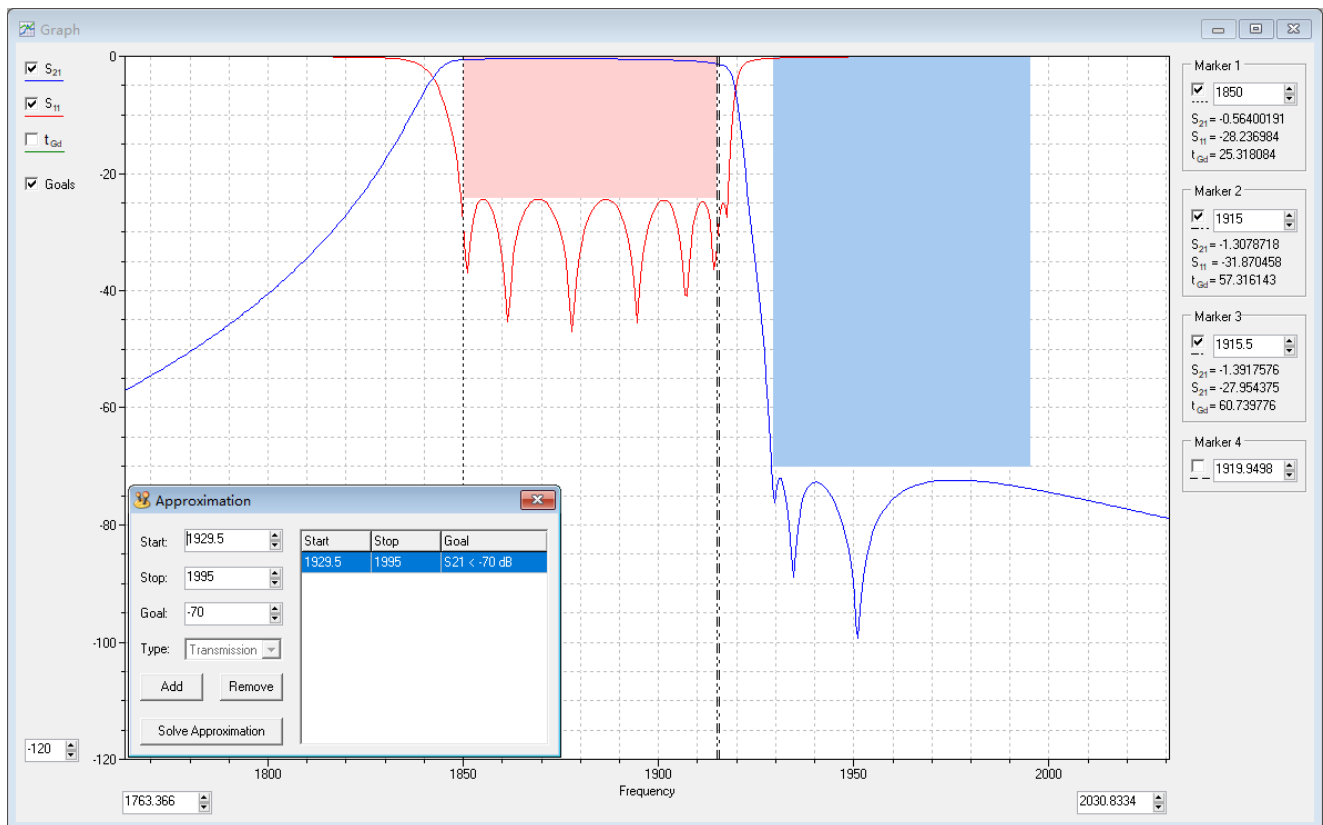


Figure 2 The simulation curve of 1850-1915MHz band

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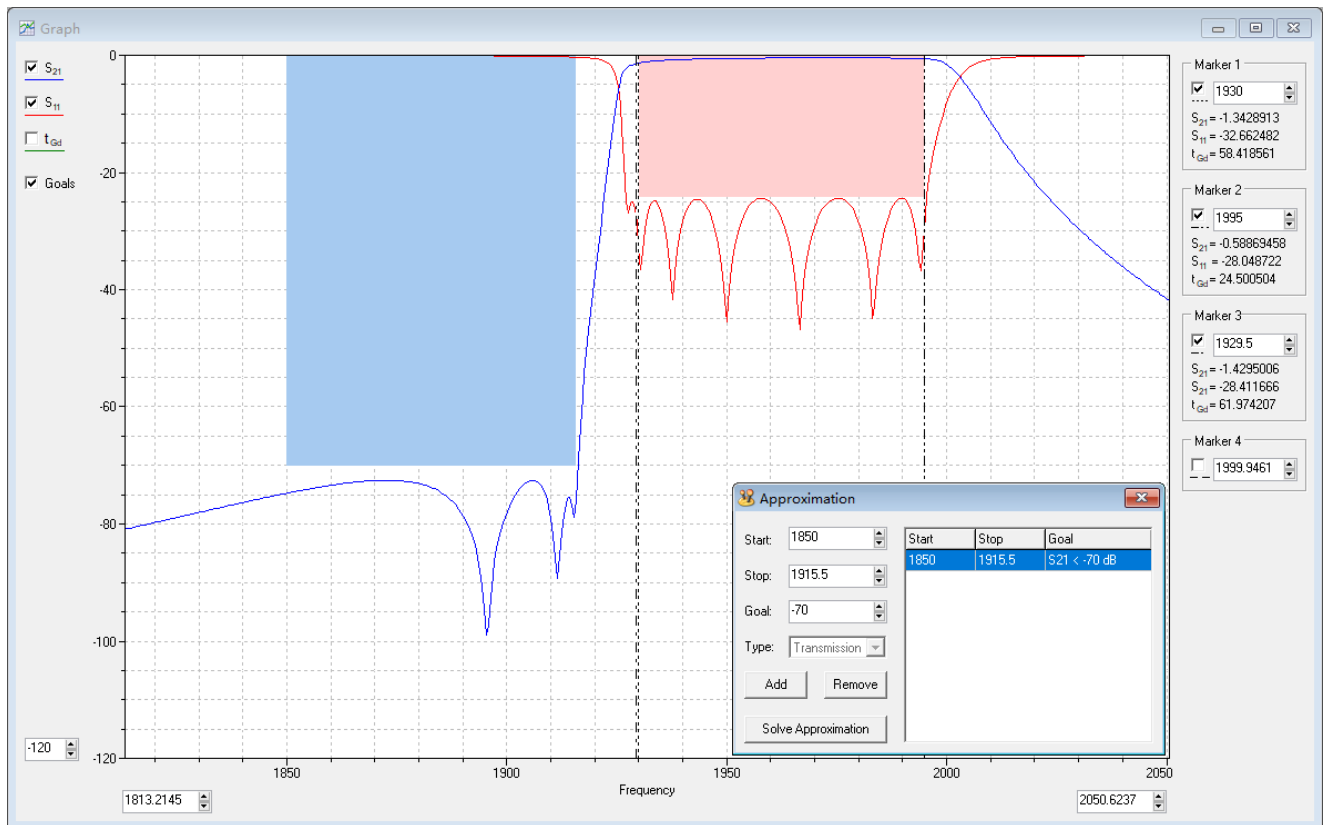


Figure 3 The simulation curve of 1930-1995MHz band

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