

Technical proposal for JX-CC5-8322570-35NS Cavity Combiner

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/03/06	Lee	Created	/
V1.1	2018/03/08	Lee	Modify the Dimension and Schematic diagram of the Combiner	/
V1.2	2018/03/19	Lee	Modify the Mechanical layout	/

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

E-mail: sales@cdjx-mw.com Web: <http://www.cdjx-mw.com>

TEL: +86-28-85026087 FAX: +86-28-65941390 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

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1. Mechanical layout

Table 1 Mechanical Specifications

Dimension	LxWxH: 136mm x 120mm x 40mm
Port connectors	SMA-female
Finish	Aluminum
Notes	Material shall be RoHS 6/6

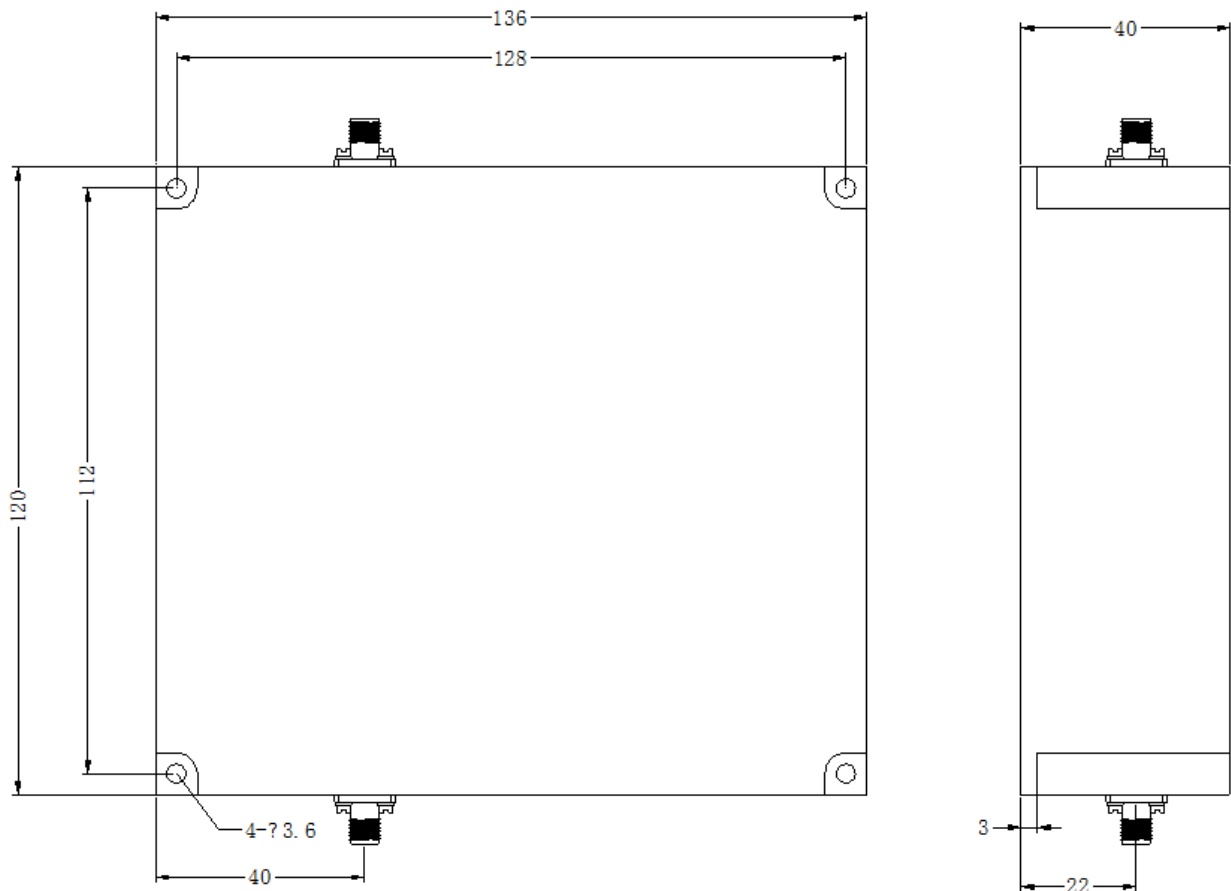


Figure 1 JX-CC5-8322570-35NS front panel layout

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2. Electrical analysis

2.1 Schematic diagram of the Combiner

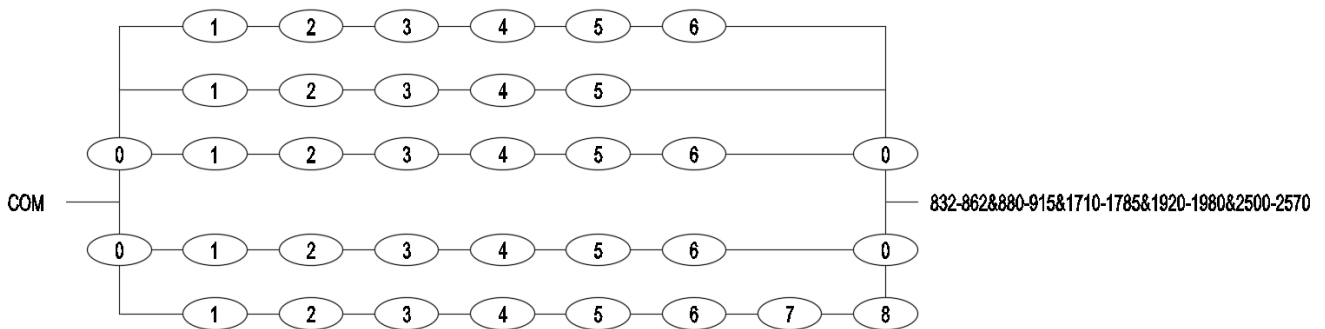


Figure 2 Topology of the Combiner

2.2 Electrical specifications

Table 2 Electrical specifications

Item	Parameter	832-862&880-915&1710-1785&1920-1980&2500-2570
1	Frequency range	832-862MHz & 880-915MHz & 1710-1785MHz & 1920-1980MHz & 2500-2570MHz
2	Return loss	≥15 dB
3	Insertion loss	≤2.0 dB
4	Ripple	≤1.5 dB
5	Rejection	≥35dB@806-821MHz ≥35dB@925-960MHz ≥35dB@1805-1880MHz ≥35dB@2110-2170MHz ≥35dB@2620-2690MHz
6	Input power	1 W
7	Impedance	50 Ω
8	Temperature range	0 ~ +70 °C

Note : Only 1 Input port and 1 Output port , like as a filter , so don't have the Isolation parameter .

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2.3 The simulation curve

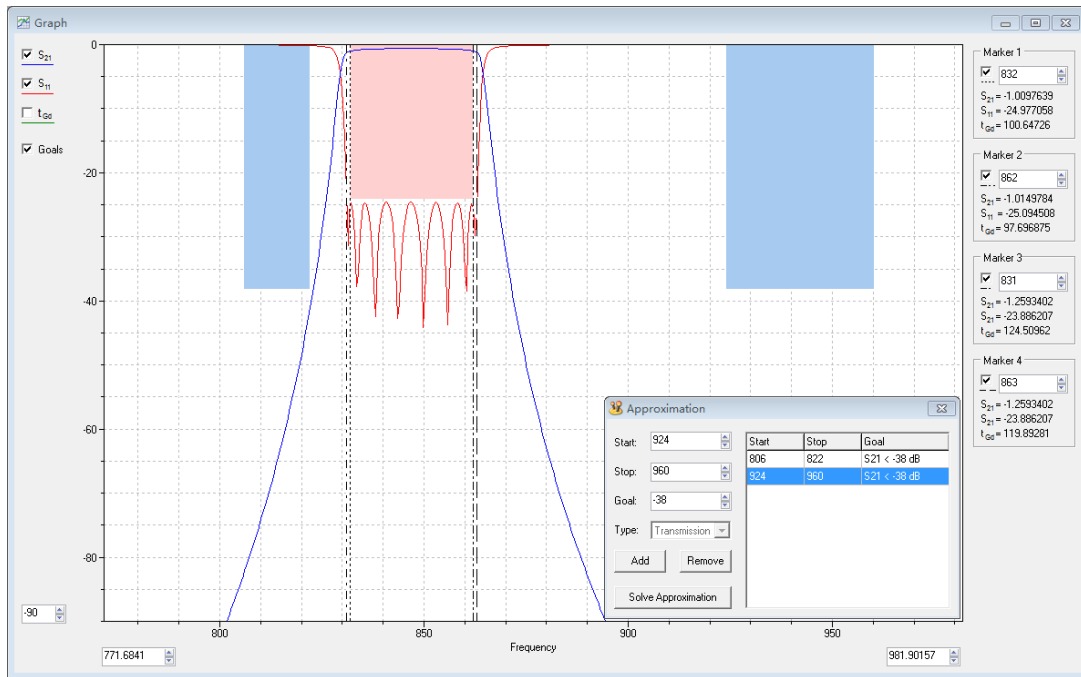


Figure 3 The simulation curve of 832-862

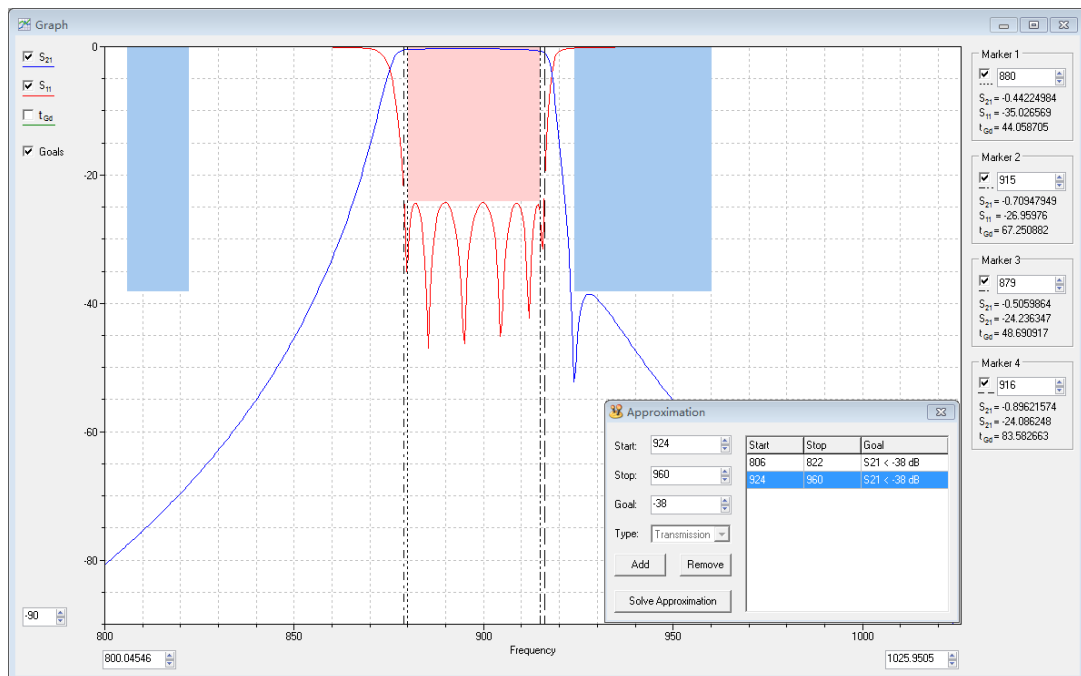


Figure 4 The simulation curve of 880-915

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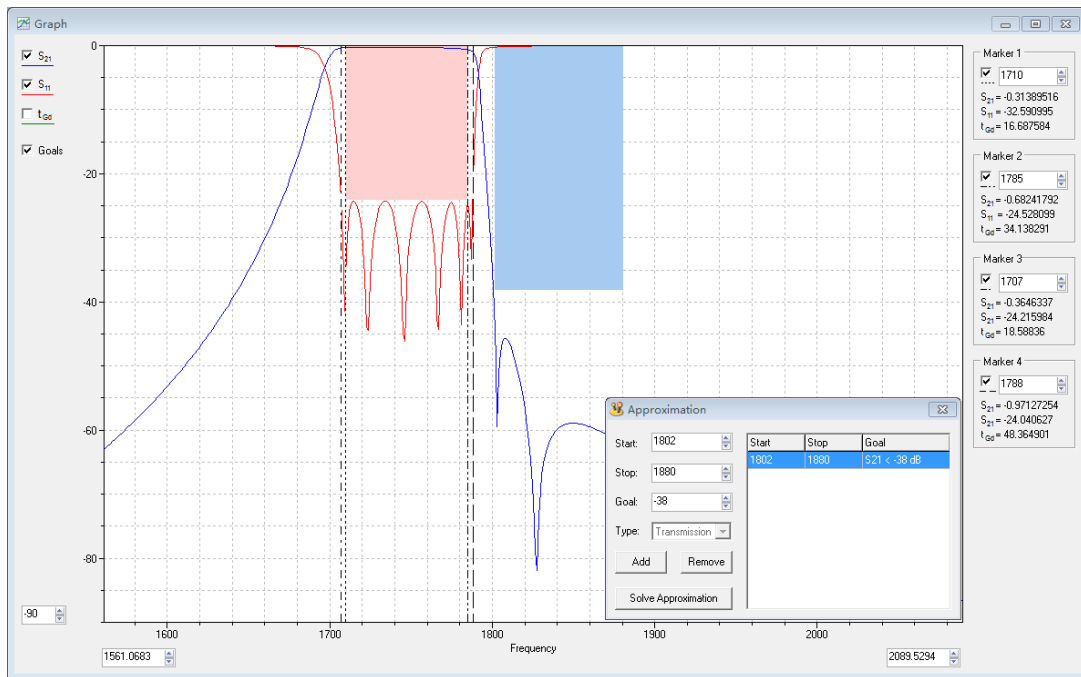


Figure 5 The simulation curve of 1710-1785

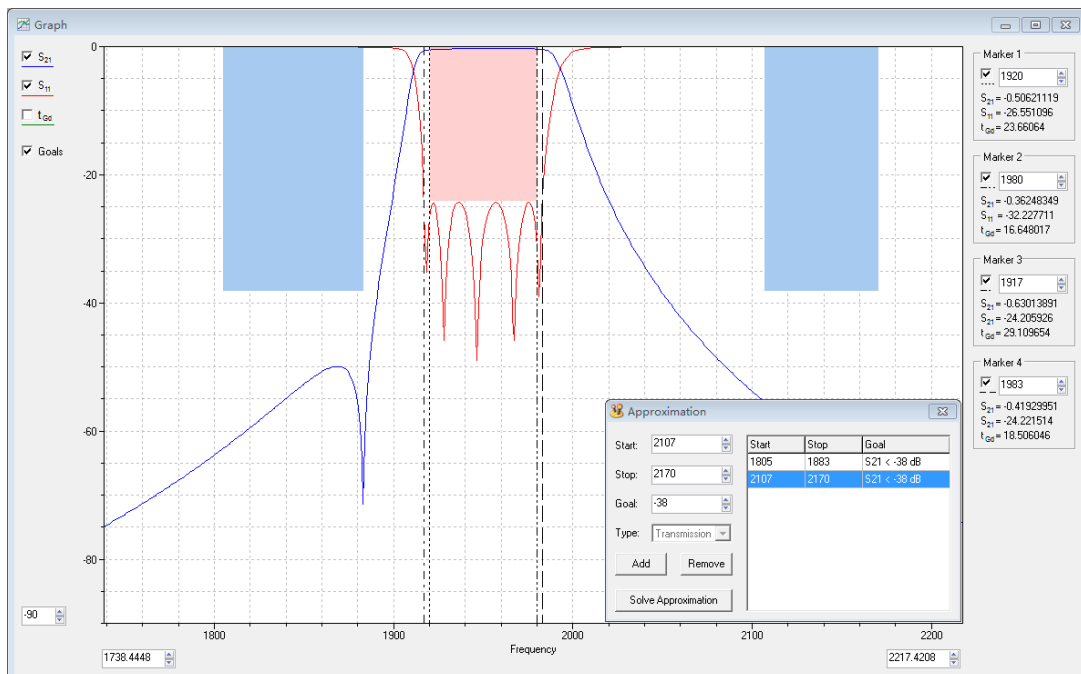


Figure 6 The simulation curve of 1920-1980

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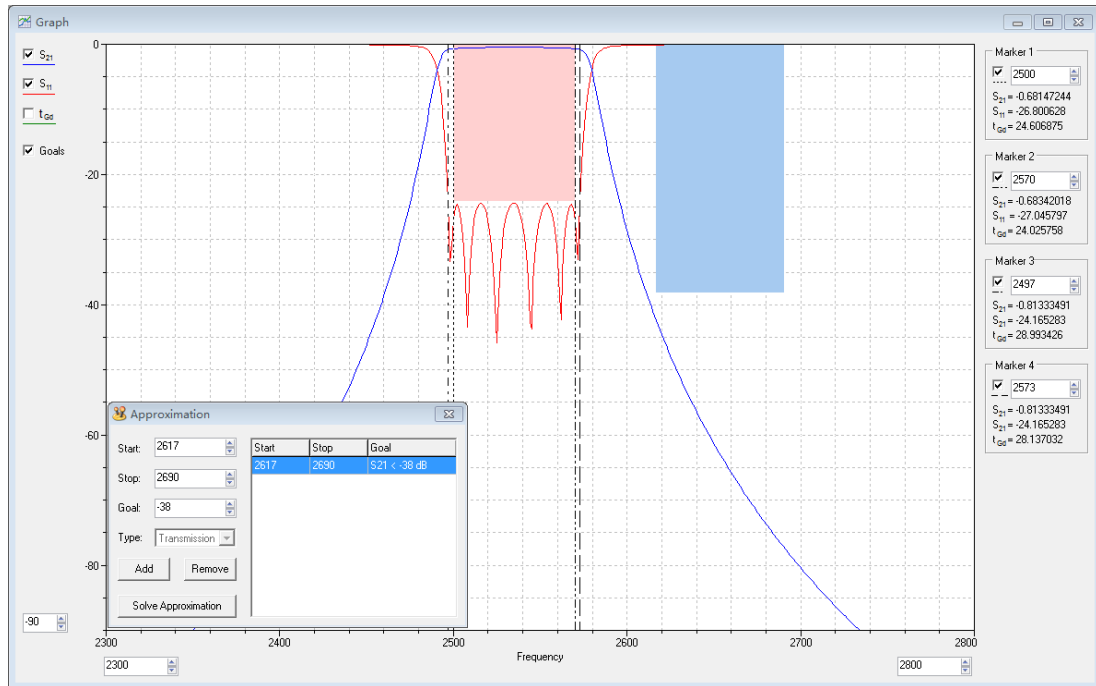


Figure 7 The simulation curve of 2500-2570

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