

Technical proposal for JX-CC5-791M2690M-40NS1 Cavity Combiner

- ◆ Low Insertion Loss
- ◆ High Rejection
- ◆ High Power Output Port of the N Connector
- ◆ Small Volume
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/09/14	Sam Chen	Created	/
V1.1	2020/10/01	Sam Chen	Update output port identification	Customer suggestion

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

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

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

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

Table of content

Technical proposal for JX-CC5-791M2690M-40NS1 Cavity Combiner	1
1. Mechanical layout.....	3
2. Electrical analysis.....	4
2.1 Schematic diagram of the Combiner.....	4
2.2 Electrical specifications	4
2.3 The simulation curve	5

Figures

Figure 1 JX-CC5-791M2690M-40NS1 front panel layout.....	3
Figure 2 Topology of the Combiner	4
Figure 3 The simulation curve of the combiner	5

Tables

Table 1 Mechanical specifications @ JX-CC5-791M2690M-40NS1	3
Table 2 Electrical specifications @ JX-CC5-791M2690M-40NS1.....	4

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

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

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

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

1. Mechanical layout

Table 1 Mechanical specifications @ JX-CC5-791M2690M-40NS1

Dimension	LxWxH: 160mm x 198mm x 38mm (44.0mm Max)
Port connectors	Com: N-Female; Input: SMA-Female
Finish	Silver
Notes	Material shall be RoHS 6/6

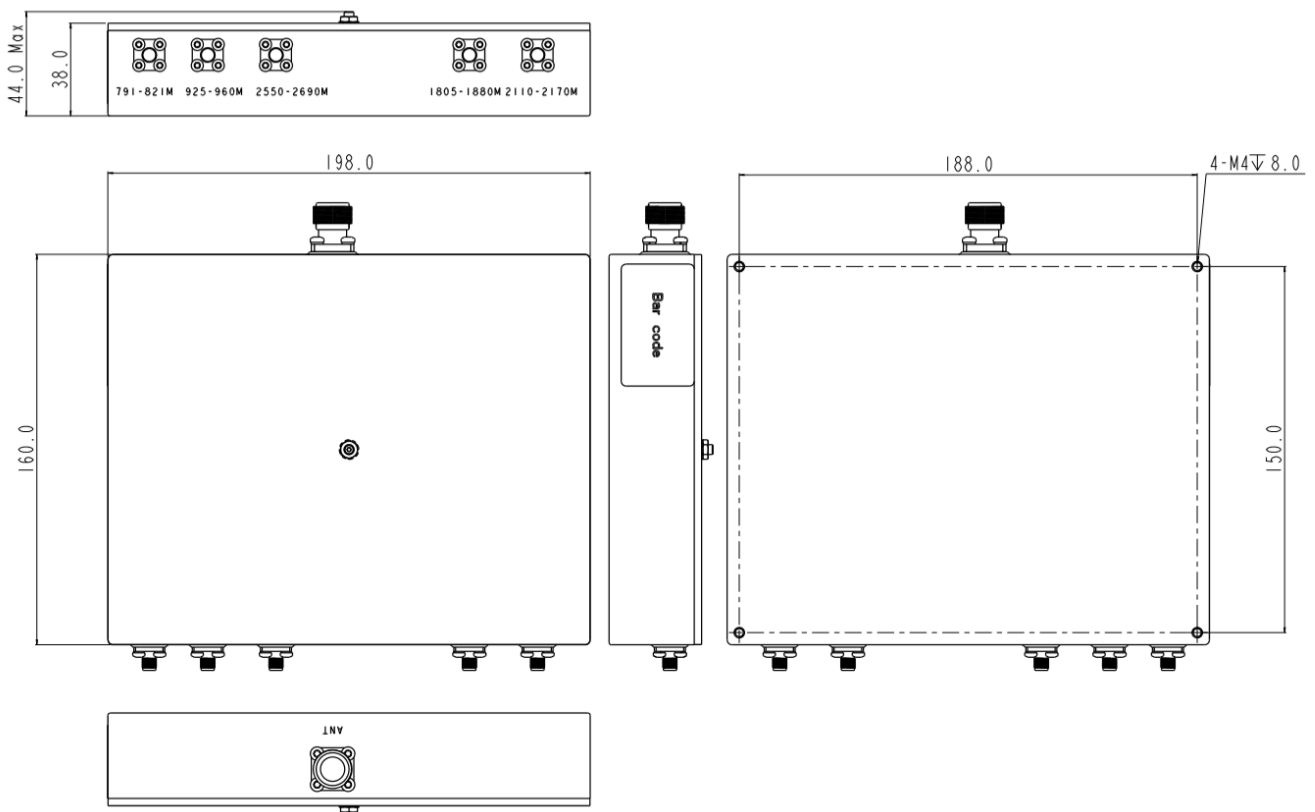


Figure 1 JX-CC5-791M2690M-40NS1 front panel layout

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

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

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

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

2. Electrical analysis

2.1 Schematic diagram of the Combiner

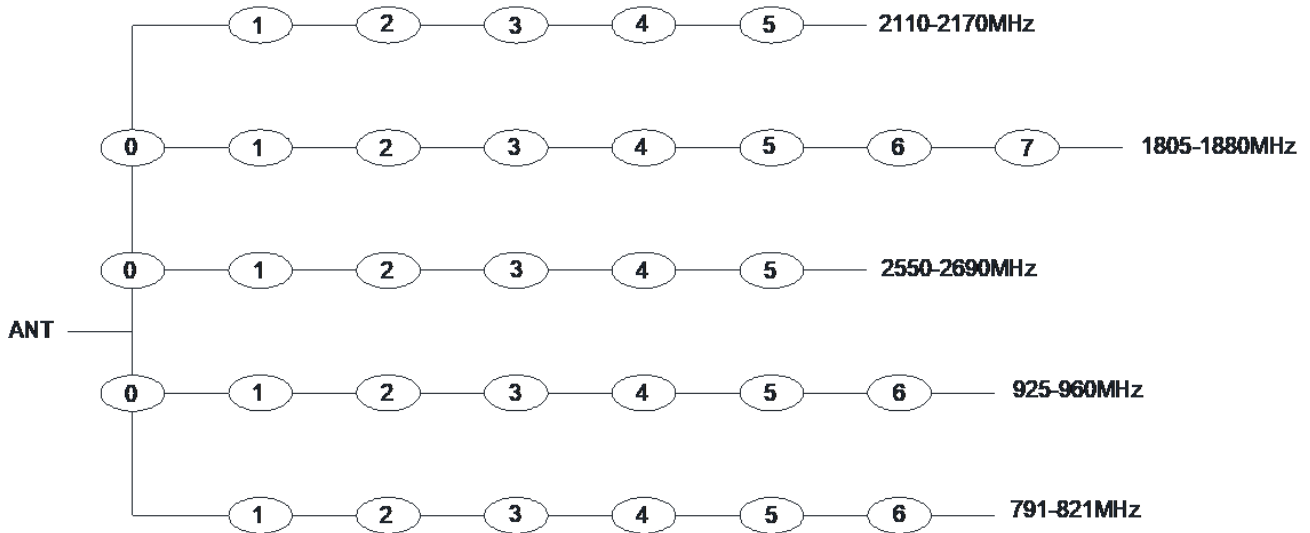


Figure 2 Topology of the Combiner

2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CC5-791M2690M-40NS1

Item	Parameter	800DD	900	1800	2100	2600
1	Frequency range	791-821 MHz	925-960 MHz	1805-1880 MHz	2110-2170 MHz	2550-2690 MHz
2	Return loss	≥17 dB	≥17 dB	≥17 dB	≥17 dB	≥17 dB
3	Insertion loss	≤0.75 dB	≤0.75 dB	≤0.5 dB	≤0.5 dB	≤0.5 dB
4	Rejection	≥40dB@832-862M Hz ≥40dB@880-915M Hz ≥40dB@1710-1785 MHz ≥40dB@1920-1980 MHz ≥40dB@2500-2570 MHz	≥40dB@832-862M Hz ≥40dB@880-915M Hz ≥40dB@1710-1785 MHz ≥40dB@1920-1980 MHz ≥40dB@2500-2570 MHz	≥40dB@832-862M Hz ≥40dB@880-915M Hz ≥40dB@1710-1785 MHz ≥40dB@1920-1980 MHz ≥40dB@2500-2570 MHz	≥40dB@832-862M Hz ≥40dB@880-915M Hz ≥40dB@1710-1785 MHz ≥40dB@1920-1980 MHz ≥40dB@2500-2570 MHz	≥40dB@832-862M Hz ≥40dB@880-915M Hz ≥40dB@1710-1785 MHz ≥40dB@1920-1980 MHz ≥40dB@2400-2450 MHz
5	power	250W Average Handling Power at Common Port				
6	Temperature	-40~+85℃				
7	Impedance	50 Ω				

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

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

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

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

2.3 The simulation curve

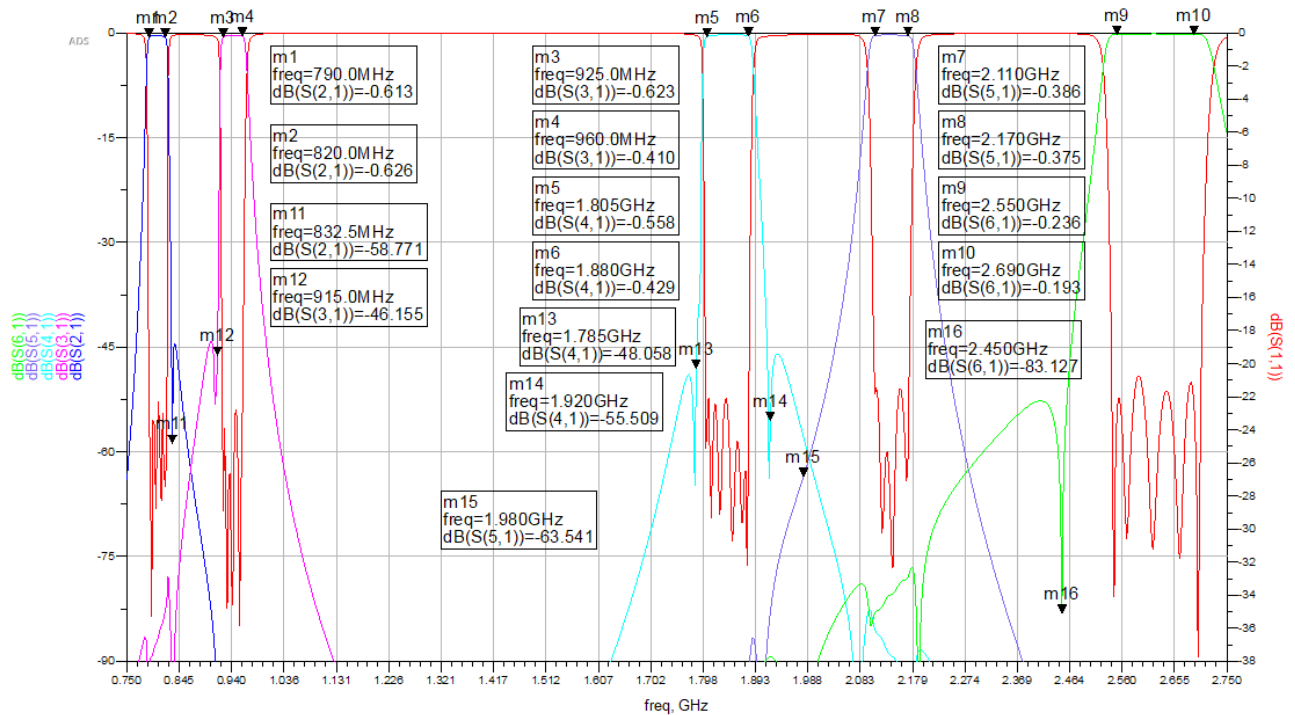


Figure 3 The simulation curve of the combiner

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

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

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

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