

Technical proposal for JX-CC5-791M2690M-75NS1P Cavity Combiner

- ◆ Low Insertion Loss
- ◆ High Rejection
- ◆ High Power
- ◆ Small Volume
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/06/10	Lee	Created	/

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-75NS1P 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-75NS1P 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-75NS1P	3
Table 2 Electrical specifications @ JX-CC5-791M2690M-75NS1P	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-75NS1P

Dimension	LxWxH: 129mm x 116mm x 74mm (80.0mm Max)		
Port connectors	COM: N-Female	Input: SMA-Female	CPL: SMA-Female
Weight	≤1.7 kg		
Finish	Sliver		
Notes	Material shall be RoHS 6/6		

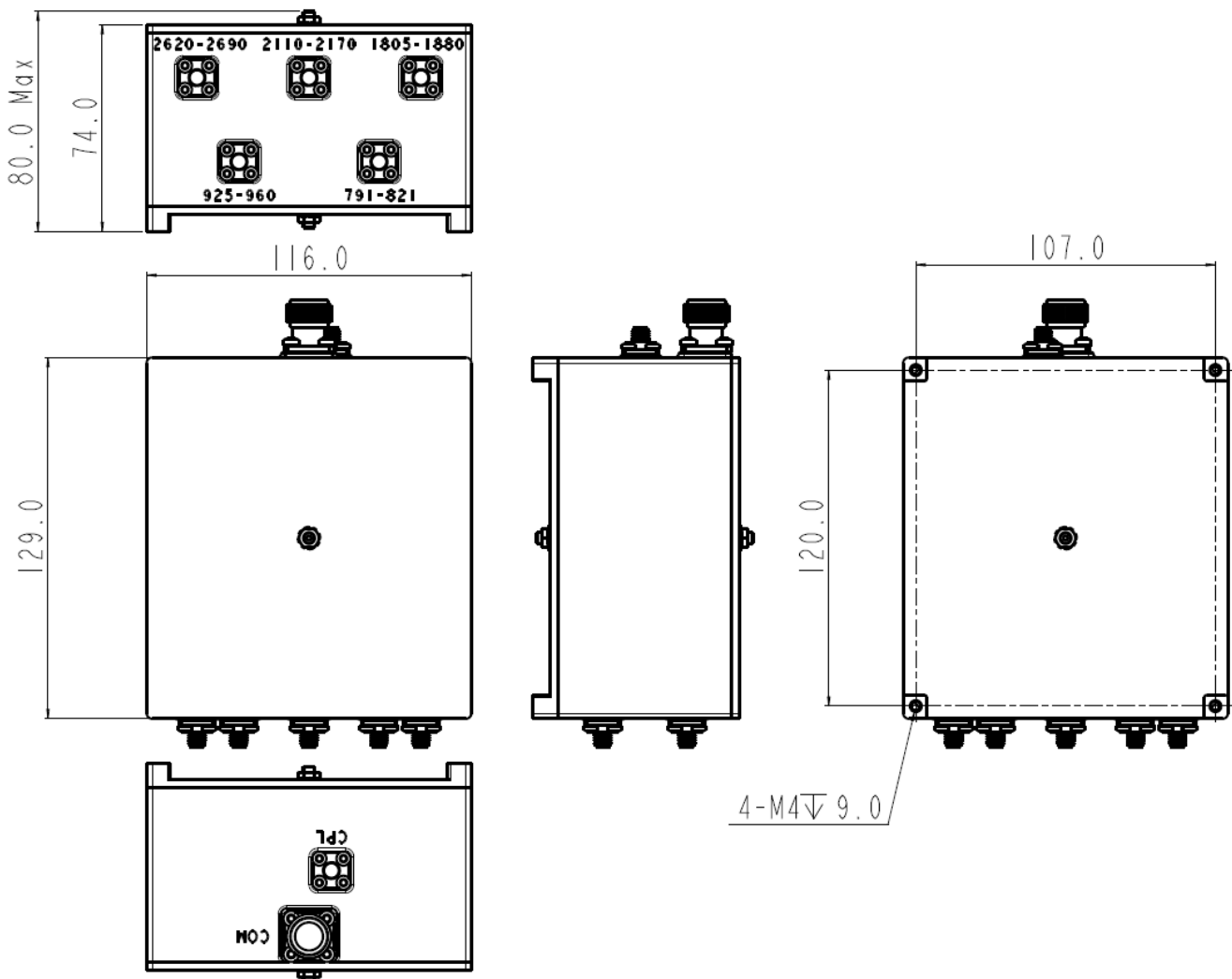


Figure 1 JX-CC5-791M2690M-75NS1P front panel layout

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

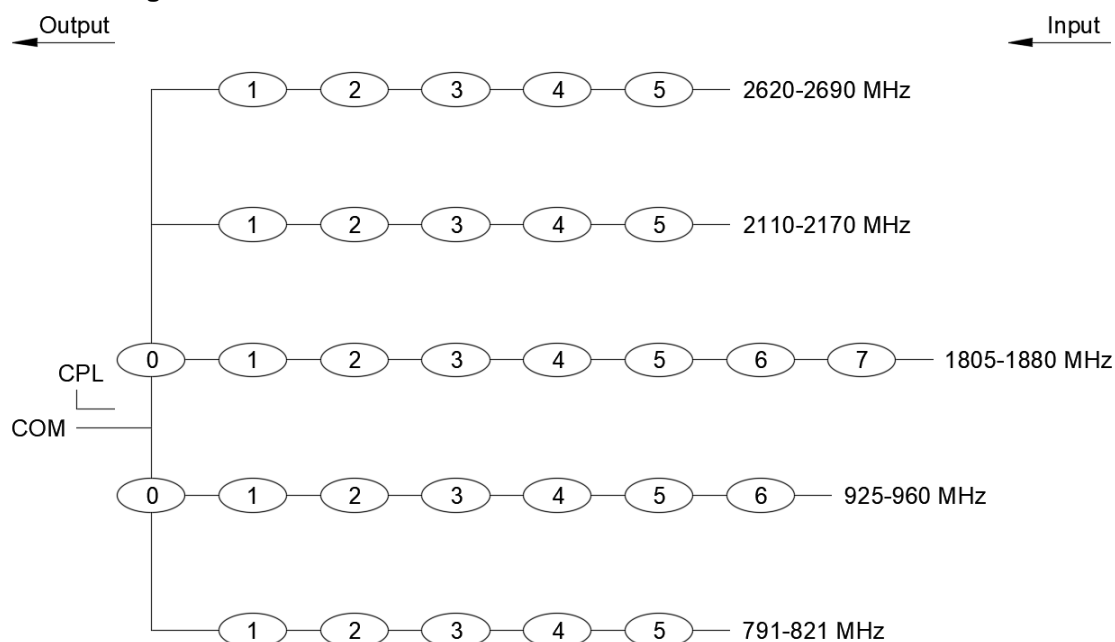


Figure 2 Topology of the combiner

2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CC5-791M2690M-75NS1P

Item	Parameter	800DD	900	1800	2100	2600
1	Frequency range	791-821 MHz	925-960 MHz	1805-1880 MHz	2110-2170 MHz	2620-2690 MHz
2	Return loss	≥18 dB	≥18 dB	≥18 dB	≥18 dB	≥18 dB
3	Insertion loss	≤1.5 dB	≤1.5 dB	≤1.5 dB	≤1.0 dB	≤1.4 dB
4	Rejection at all stop bands	≥75 dB	≥75 dB	≥75 dB	≥60 dB	≥70 dB
5	Stop band ranges	832-862 MHz & 880-915 MHz & 1710-1785 MHz & 1920-1980 MHz & 2500-2570 MHz				
6	Coupling	60dB±10.0dB				
7	Average power	+48dBm(60Watt) @ each input			+55dBm(300Watt) @ output	
8	Peak power	+53dBm(200Watt) @ each input			+60dBm(1000Watt) @ output	
9	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

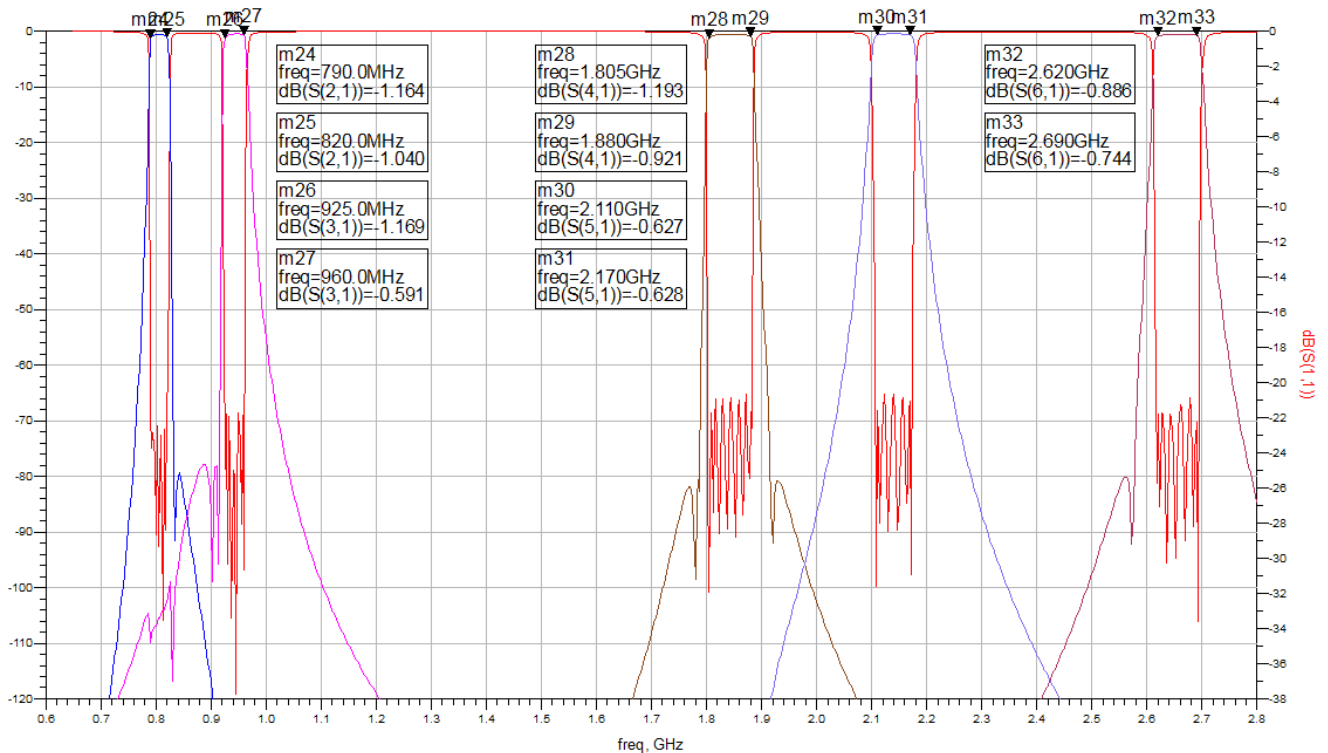


Figure 3 The simulation curve of the combiner

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.