

Technical Proposal for JX-CC2-380M2700M-50N Cavity Combiner

- ◆ Low PIM
- ◆ Ultra Wide Bandwidth
- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/08/07	Lee	Created	/
V1.1	2018/08/16	Lee	Update the electrical specifications	The sample test results

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.

Table of content

Technical Proposal for JX-CC2-380M2700M-50N 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	4

Figures

Figure 1 JX-CC2-380M2700M-50N front panel layout	3
Figure 2 Topology of the Combiner	4
Figure 3 The simulation curve of JX-CC2-380M2700M-50N	4

Tables

Table 1 Mechanical Specifications @ JX-CC2-380M2700M-50N.....	3
Table 2 Electrical specifications @ JX-CC2-380M2700M-50N	4

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

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

TEL: +86-28-85026087 FAX: +86-28-65941390 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-CC2-380M2700M-50N

Dimension	LxWxH: 161mm x 83.5mm x 30mm (Max 35mm)
Port connectors	N-female
Finish	Silver
Material	Indoor applications
Weight	≤0.7kg
Notes	Material shall be RoHS 6/6

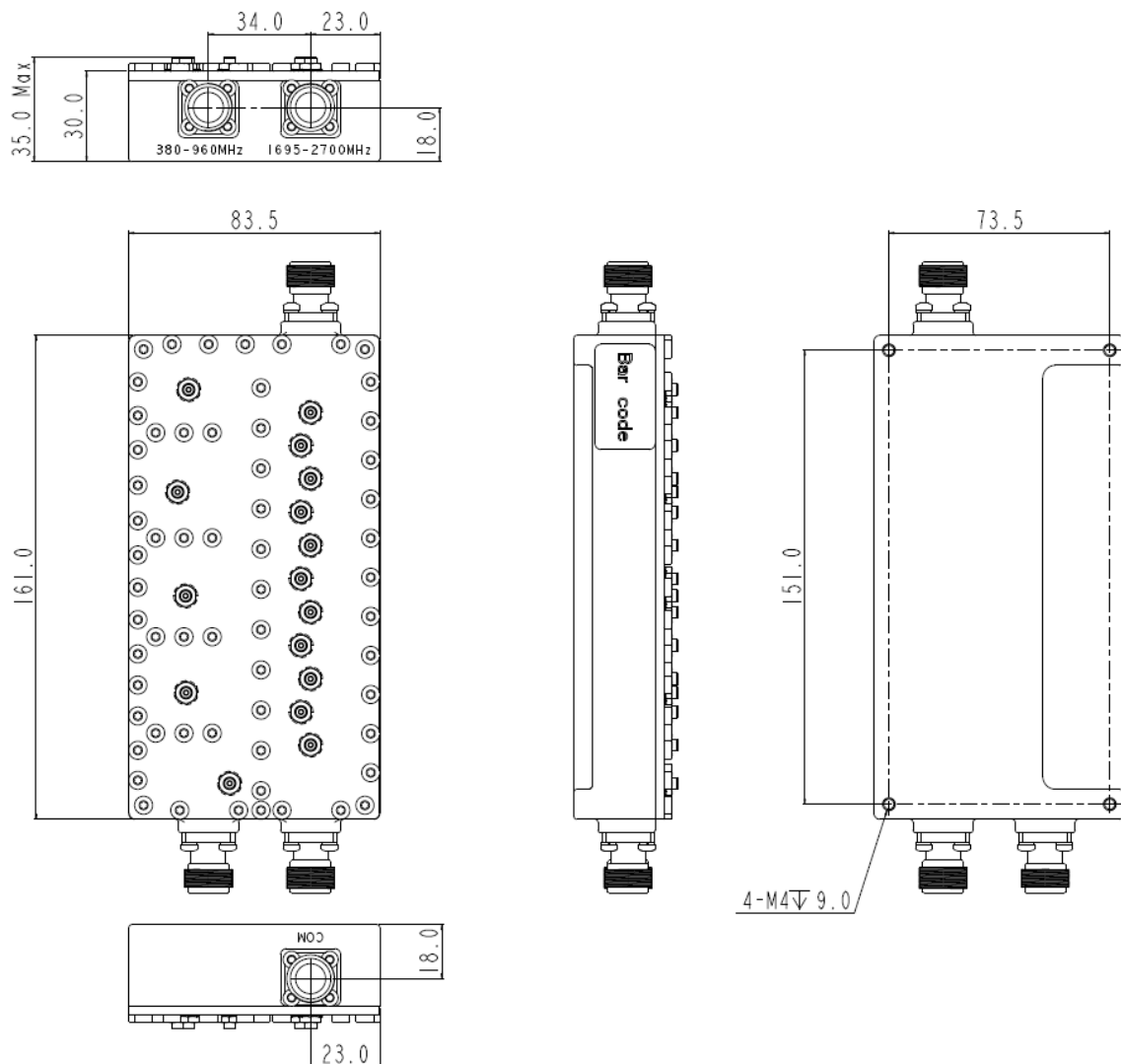


Figure 1 JX-CC2-380M2700M-50N front panel layout

JING XIN MICROWAVE TECHNOLOGY CO.,LTD

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

TEL: +86-28-85026087 FAX: +86-28-65941390 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

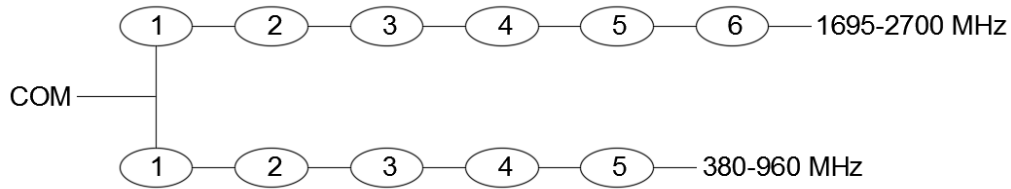


Figure 2 Topology of the Combiner

2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CC2-380M2700M-50N

1	Frequency range	380-960MHz	1695-2700MHz
2	Return loss	≥16dB@DC-380MHz ≥18dB@380-960MHz&1695-2700MHz	
3	Insertion loss	≤0.3dB	
4	Isolation	≥55dB@DC-960MHz&1695-2700MHz	
5	Average power	200W / 53dBm (+25°C 1atm)	
6	Peak power	1000W / 60dBm (+25°C 1atm)	
7	PIM3	≤-150dBc@2*43dBm	
8	Temperature range	-40 °C to +85 °C	

2.3 The simulation curve

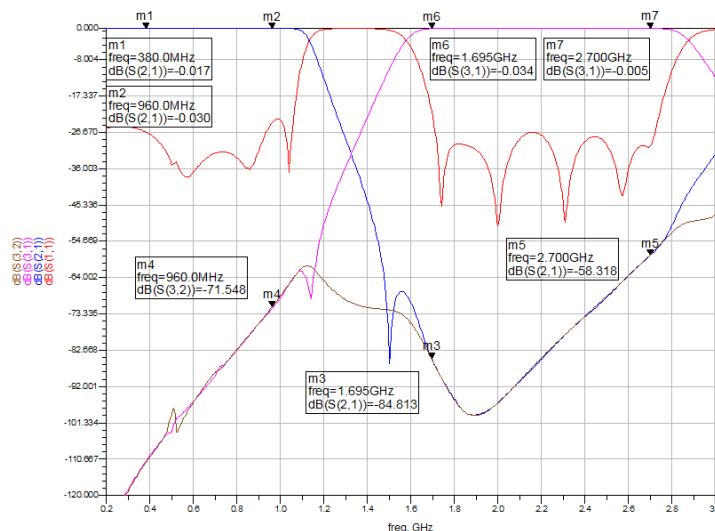


Figure 3 The simulation curve of JX-CC2-380M2700M-50N

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.