

# Technical proposal for JX-CC5-791M2690M-25S Cavity Combiner

- ◆ Low Insertion Loss
- ◆ High Rejection
- ◆ Small volume
- ◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/04/30	Sam Chen	Created	/

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## 1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CC5-791M2690M-25S

Dimension	LxWxH: 115mm x 105mm x 65mm (70.0mm Max)
Port connectors	SMA-Female
Weight	< 1.0 kg
Finish	Sliver
Notes	Material shall be RoHS 6/6

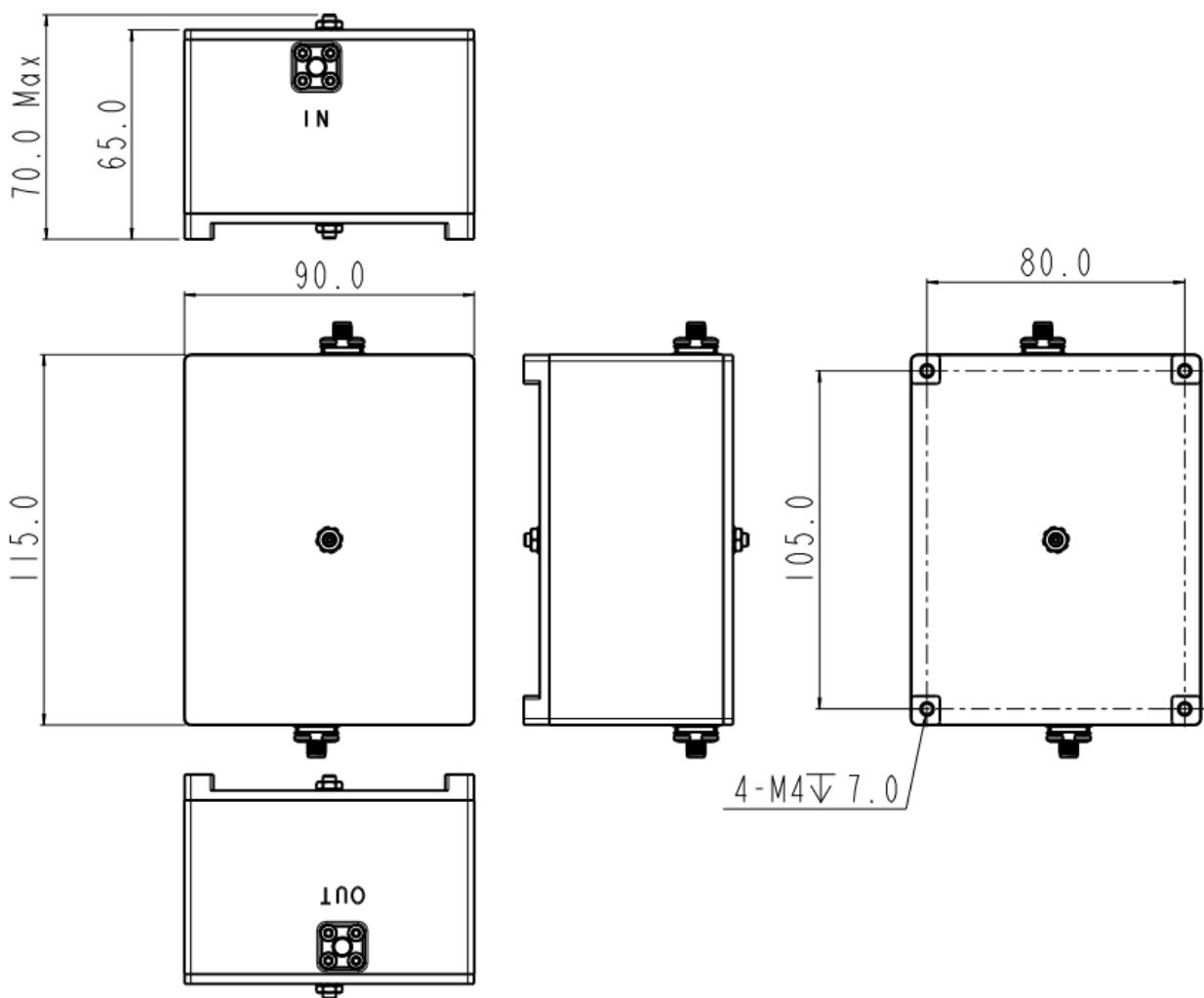


Figure 1 JX-CC5-791M2690M-25S front panel layout

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## 2. Electrical analysis

### 2.1 Schematic diagram of the Combiner

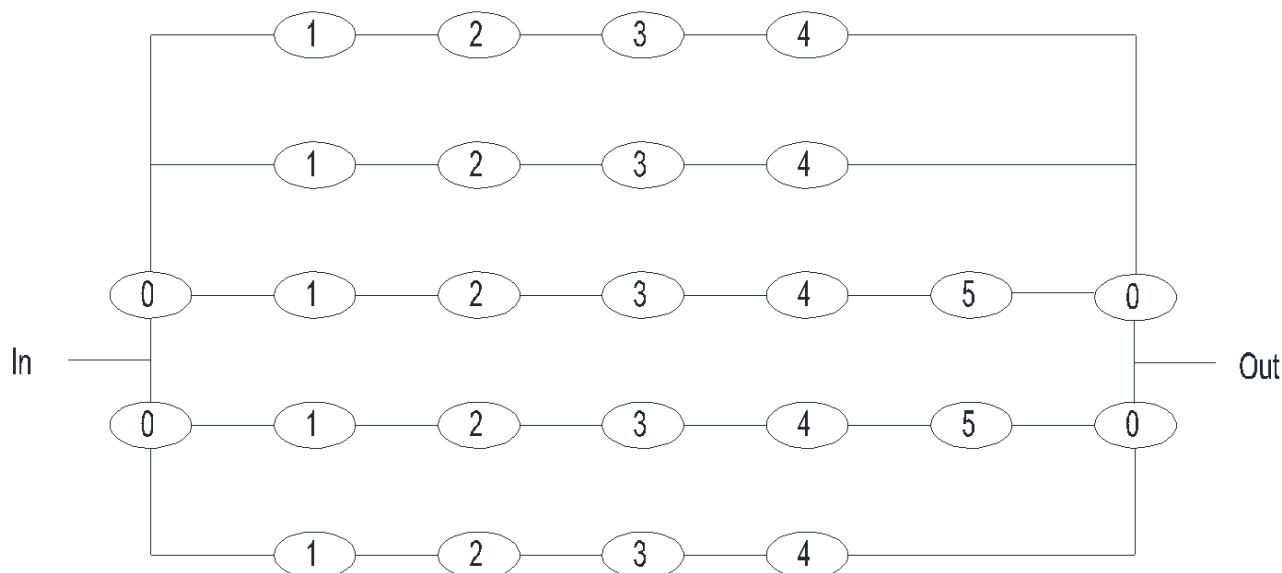


Figure 2 Topology of the Combiner

### 2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CC5-791M2690M-25S

Item	Parameter	IN-OUT
1	Frequency range	791-821 MHz&925-960 MHz&1805-1880MHz&2110-2170 MHz&2620-2690 MHz
2	Return loss	≥18 dB
3	Insertion loss	≤1.0 dB
4	Rejection at all stop bands	≥25dB@832-862MHz&880-915MHz&1710-1785MHz&1920-1980MHz&2500-2570MHz
5	power	+45dBm CW Max
7	Impedance	50 Ω

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