

Technical proposal for JX-CC5-758M2690M-75NS2 Cavity Combiner

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2018/12/23	Lee	Created	/
V1.1	2018/12/24	Lee	Update the Dimension and electrical specifications	Customer request
V1.2	2018/12/24	Lee	Update the port information	Customer request
V1.3	2019/01/04	Lee	Update the dimension of the height	JingXin request

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CC5-758M2690M-75NS2

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

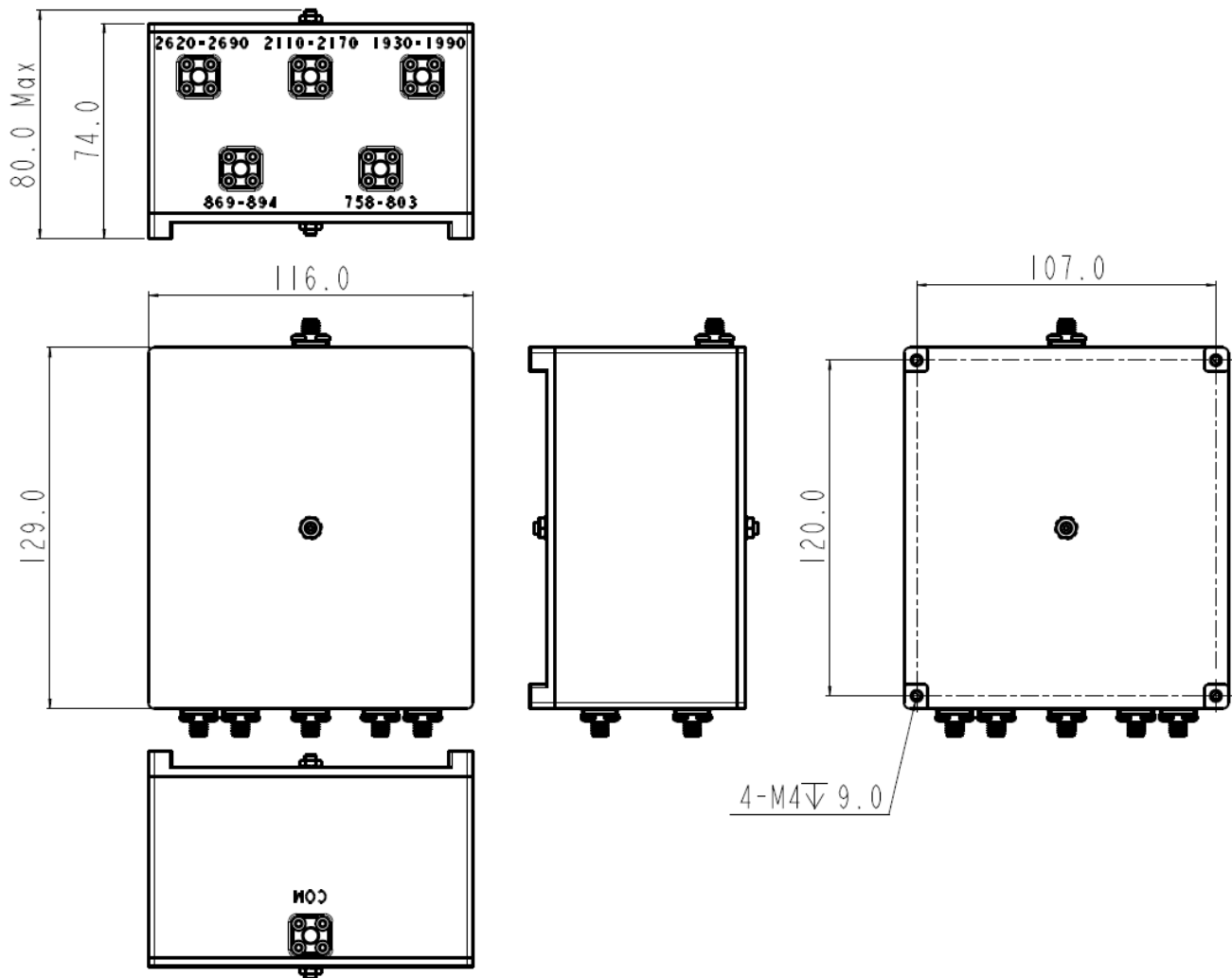


Figure 1 JX-CC5-758M2690M-75NS2 front panel layout

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2. Electrical analysis

2.1 Schematic diagram of the Combiner

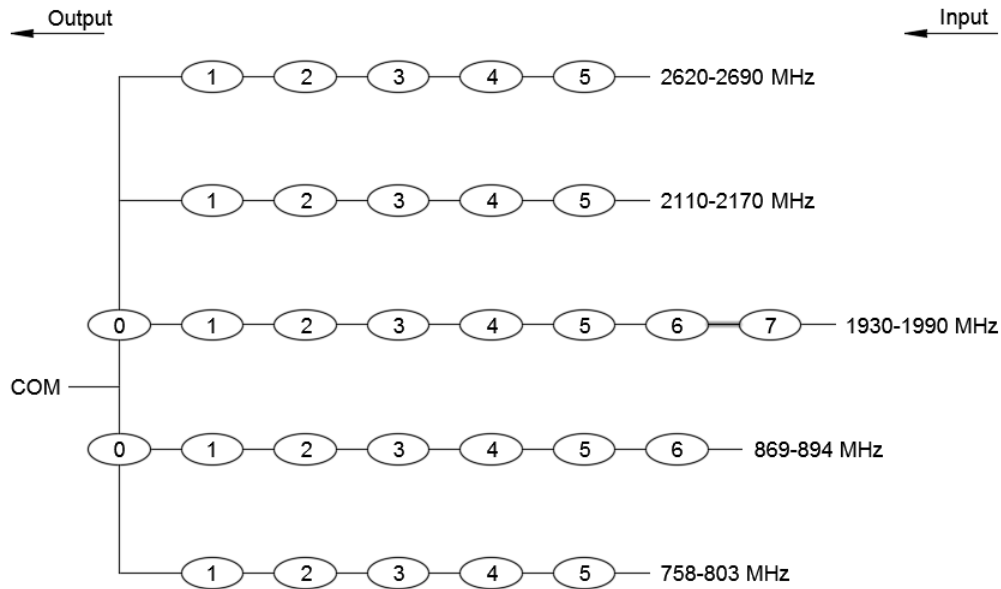


Figure 2 Topology of the Combiner

2.2 Electrical specifications

Table 2 Electrical specifications @ JX-CC5-758M2690M-75NS2

Item	Parameter	700	850	1900	2100	2600
1	Frequency range	758-803 MHz	869-894 MHz	1930-1990 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	703-748 MHz & 824-849 MHz & 1710-1785 MHz & 1850-1910 MHz & 2500-2570 MHz				
6	Average power	+47dBm (per input)				
7	Peak power	+50dBm (per input)				
8	Impedance	50 Ω				

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