

Technical proposal for JX-CC3-791M2690M-60N Cavity Combiner

◆ Small volume

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2023/11/16	Sam Chen	Created	/
V1.1	2023/11/21	Sam Chen	Update	/

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1. Mechanical layout

Table 1 Mechanical Specifications @ JX-CC3-791M2690M-60N

Dimension	LxWxH: 154mm x 136mm x 44mm (50.0mm Max)
Port connectors	N-Female
Finish	Black Epoxy Painting
Notes	Material shall be RoHS 6/6

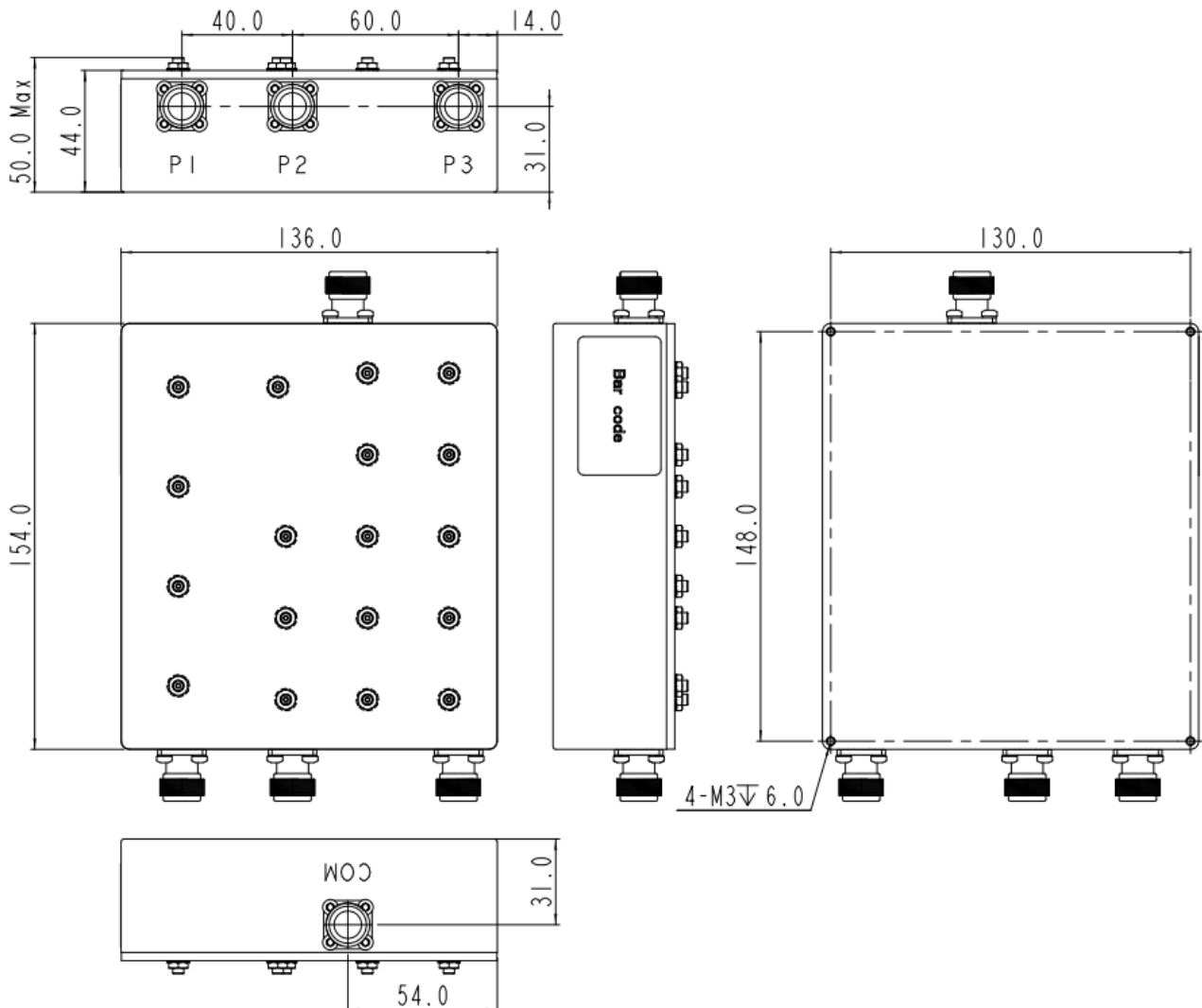


Figure 1 JX-CC3-791M2690M-60N front panel layout

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2. Electrical analysis

2.1 Electrical specifications

Table 2 Electrical specifications @ JX-CC3-791M2690M-60N

Item	Parameter	P1	P2	P3
1	Frequency range	791-960MHz	1710-2170MHz	2500-2690MHz
2	Return loss	≥18dB		
3	Insertion Loss in BW	≤1.0dB		
4	Ripple in BW	≤0.5dB		
5	Rejection	≥60dB @ each port		
6	Input Power	100W max		
7	Temp. Range	-30°C to +70°C		
8	Impedance	50 Ω		

2.2 The simulation curve

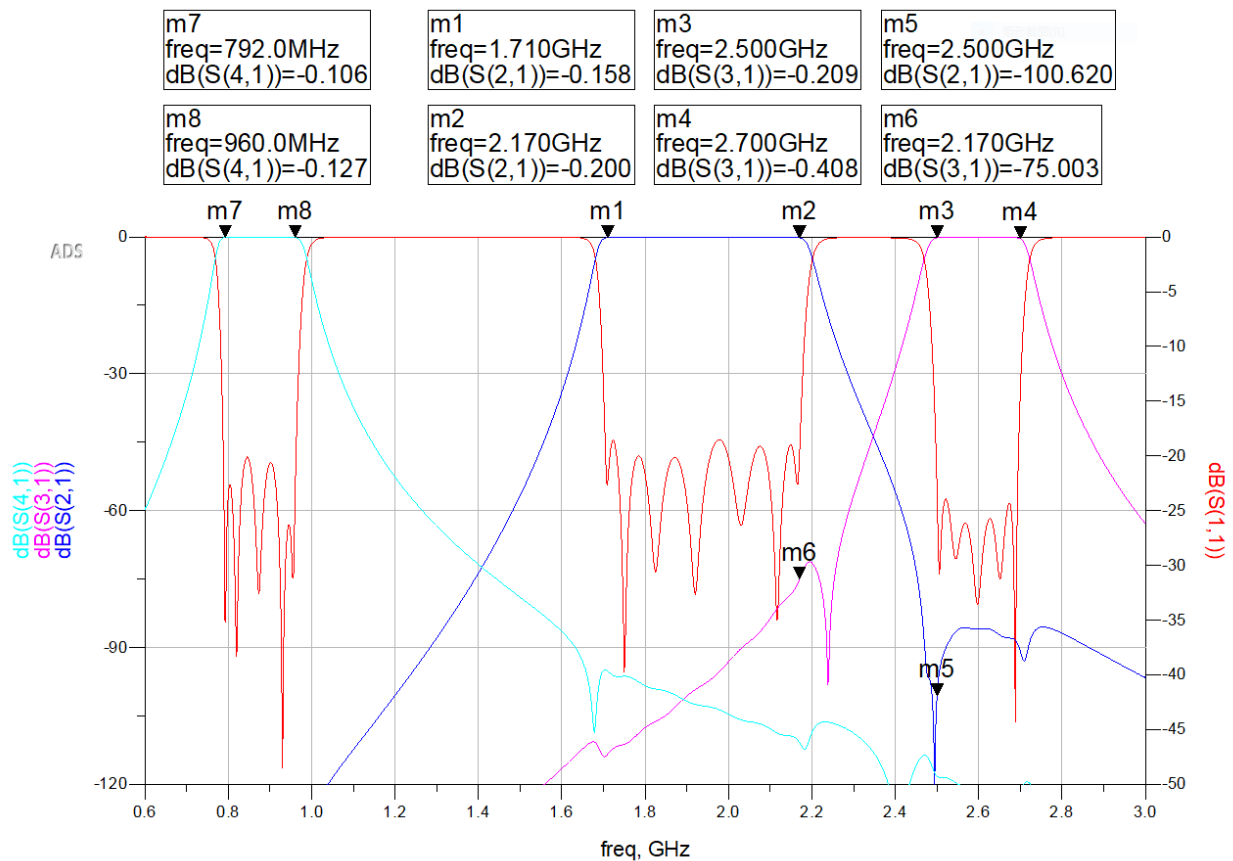


Figure 2 The simulation curve of the combiner

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