

Technical proposal for JX-CC6-758M4200M-4310FSF Cavity Combiner

- ◆ High Performance
- ◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2022/03/24	Vivian	Created	/
V1.1	2022/03/25	Vivian	Updated the temperature	Customer request

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1. Mechanical layout

Table 1 Mechanical specifications

Dimension	280*230*35.5mm(without connectors)
Connectors	Input :4.3-10-F / Output:SMA-F
Notes	Material shall be RoHS 6/6

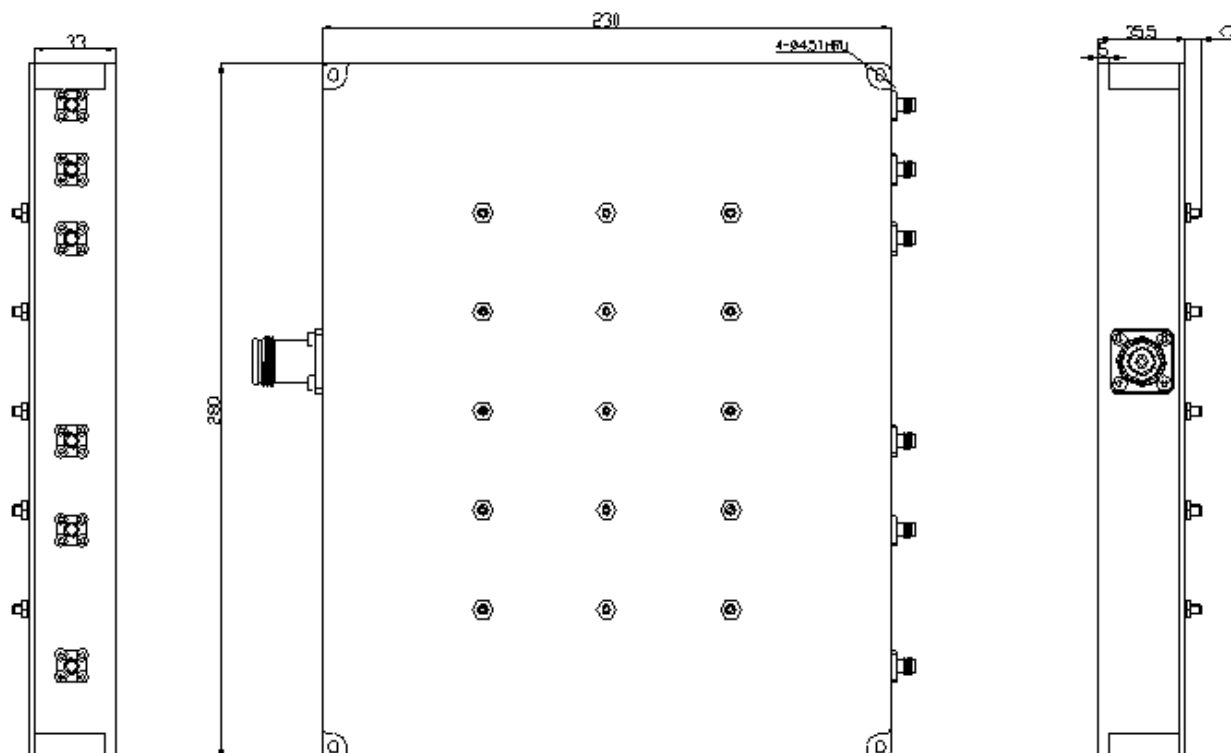


Figure 1 JX-CC6-758M4200M-4310FSF front panel layout

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2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	Specifications					
		Port1	Port2	Port3	Port4	Port5	Port6
1	Frequency range(MHz)	758-821	925-960	1805-1880	2110-2170	2620-2690	3300-4200
2	Rejection(dB)	≥ 75dB 703-748 ≥ 75dB 832-862 ≥ 75dB 880-915 ≥ 75dB 1710-1785 ≥ 75dB 1920-1980 ≥ 75dB 2500-2570 ≥ 100dB 3300-4200					≥ 75dB 700-2700
3	Insertion loss(dB)	≤1					
4	Ripple Bandwidth(dB)	≤1					
5	Isolation(dB)	≥80					
6	Return loss/VSWR	≤-19dB/1.25					
7	Intermodulation (dBc)	≤-155 (with 2x20W)@ANT					
8	Impedance (Ω)	50 Ω					
9	Input Power (at each port)	80 W average Max:500W peak Max					
10	Input Power(com port)	400 W average Max:2500W peak Max					
11	Operation temperature	-20°C to +85°C					
12	Storage temperature	-40°C to +85°C					
13	Relative humidity	5%~95%					
14	Application	Indoor					

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