

Technical Proposal for JX-CC2-BK24-4310FWP Cavity Combiner

- ◆ Inject UHF, TETRA or LMR at existing network sites
- ◆ Guaranteed Low PIM
- ◆ Meets European Rail Standard
EN50155:2001 (Class T1)
- ◆ High Input Isolation
- ◆ 120W avg / 3000W peak Power Rating
- ◆ RoHS Compliant

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2023/05/31	Lee	Created	/
V1.1	2023/08/23	Lee	Updated the specification	JingXin request

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JING XIN MICROWAVE TECHNOLOGY CO.,LTD

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

TEL: +86-28-85026087 FAX: +86-28-65026087 ext.8033 Zip Code:610045

Add: No.65,West 1st Wu Ke Road, Wu Hou District, Cheng Du City, Si Chuan Province, China.

Tables

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-CC2-BK24-4310FWP

Item	Parameter	Specification
1	Dimension	L x W x H: 7.37 x 5.13 x 1.25 in, [187.2 x 130.4 x 31.8 mm]
2	Port connectors	4.3-10 / Female
3	Housing Finish	Customization
		Conductive oxidation of aluminum alloy
		Black spray paint
4	Environmental	IP67
5	Weight	≤1.4kg
6	Notes	Material shall be RoHS 6/6

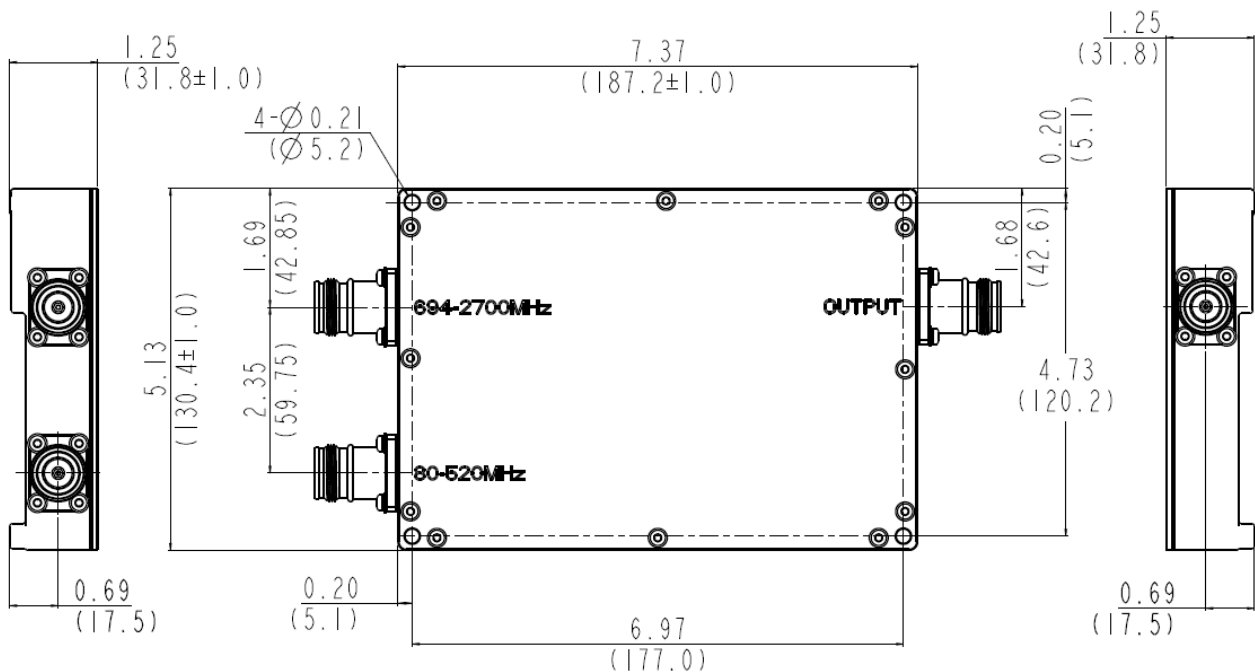


Figure 1 JX-CC2-BK24-4310FWP front panel layout

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2. Electrical analysis

Table 2 Electrical specifications @ JX-CC2-BK24-4310FWP

Item	Parameter	P1	P2
1	Frequency range	80-520MHz	694-2700MHz
2	Return loss	≥16.5dB	≥16.5dB@694-800MHz ≥16.5dB@800-2500MHz ≥16.5dB@2500-2700MHz ≥12.5dB@960-1500MHz
3	Insertion loss	≤0.4dB	≤0.6dB
4	Isolation	≥50dB@80-520MHz ≥40dB@694-800MHz ≥50dB@800-2500MHz ≥30dB@2500-2700MHz	
5	PIM*	/	≤-161dBc@2*1900MHz, +43dBm tones
6	DC pass	3A max	/
7	Average power	120W	
8	Peak power	3000W	
9	Operation temperature range	-35°C to +65°C	
10	Impedance	50Ω	

*: Final data refer to sample test results. ≤-153dBc is the worst data we can guarantee.

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