

# Technical proposal for JX-PS-575-6000-xC43DI Power Divider

- ◆ High Performance
- ◆ High Reliability
- ◆ IP65
- ◆ Low PIM

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/01/14	Sam Chen	Created	/
V1.1	2019/08/06	Sam Chen	Update outline drawing	
V1.2	2020/08/04	Lin liqun	Update Mechanical specifications and front panel layout and Electrical specifications	

**JING XIN MICROWAVE TECHNOLOGY CO.,LTD**

E-mail: [sales@cdjx-mw.com](mailto: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.

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### 1. Mechanical layout

Table 1 Mechanical specifications

Dimension	JX-PS-575-6000-2C43DI : L x W x H: 269mm x 25mm x 25mm
	JX-PS-575-6000-3C43DI: L x W x H: 297.3mm x 25mm x 25mm
	JX-PS-575-6000-4C43DI: L x W x H: 307.5mm x 25mm x 25mm
Connectors	4.3-10-Female
Finish	Black/Gray/White
Notes	Material shall be RoHS 6/6
Applications	IP67

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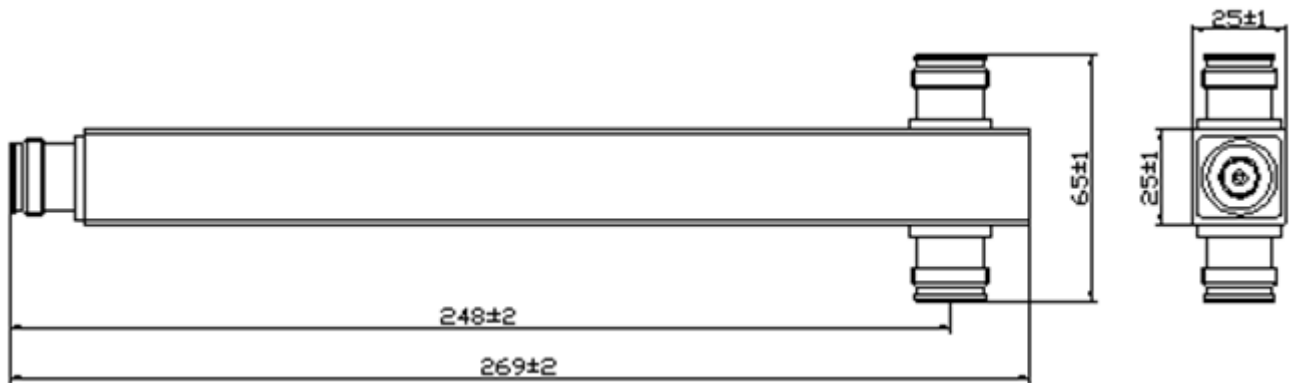


Figure 1 JX-PS-575-6000-2C43DI front panel layout

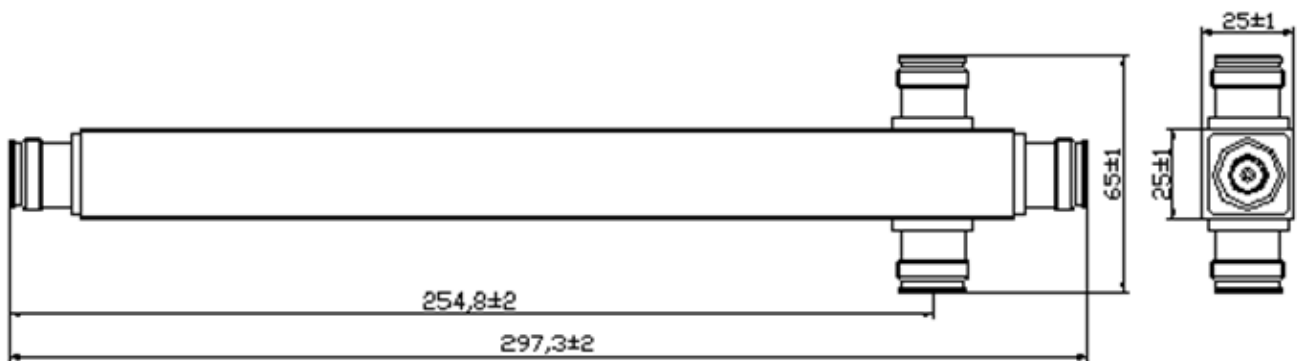


Figure 2 JX-PS-575-6000-3C43DI front panel layout

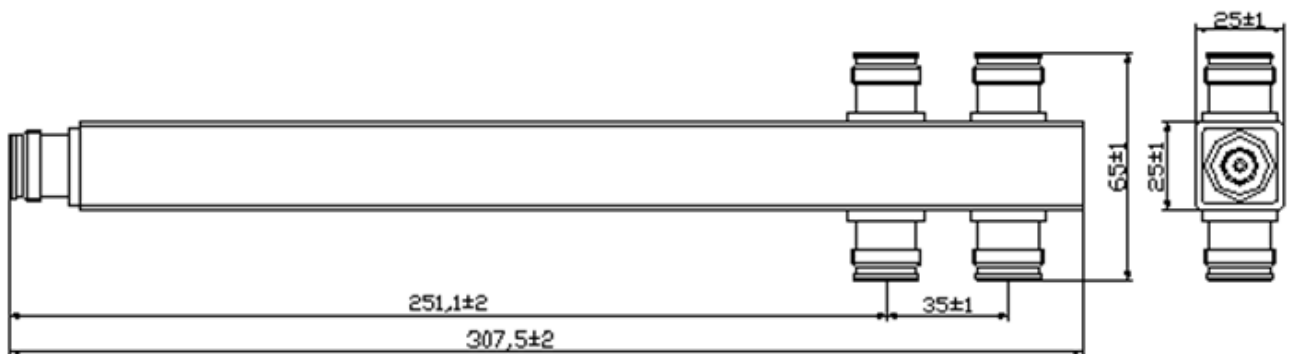


Figure 3 JX-PS-575-6000-4C43DI front panel layout

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## 2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	Specification		
1	Frequency range	575-6000MHz		
2	Model number	JX-PS-575-6000-2C43DI	JX-PS-575-6000-3C43DI	JX-PS-575-6000-4C43DI
3	Split (dB)	2	3	4
4	Split loss (dB)	3	4.8	6
5	VSWR	1.20 (575-3800)	1.25 (575-3800)	1.25 (575-3800)
		1.30 (3800-6000)	1.30 (3800-6000)	1.35 (3800-6000)
6	Insertion loss(dB)	0.2(575-2700)	0.4(575-3800)	0.5(575-3800)
		0.4(2700-6000)	0.7(3800-6000)	0.6(3800-6000)
7	Intermodulation	-160dBc@2x43dBm (The PIM Value is Reflect @ 900MHz and 1800MHz)		
8	Power rating	300 W		
9	Impedance	50Ω		
10	Temperature range	-35 to +85℃		

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