

# Technical proposal for JX-PC-575-6000-XC43DI Directional Coupler

- ◆ Wide Frequency Band 575-6000MHz
- ◆ 2G/3G/4G/LTE/5G Coverage
- ◆ Low Passive Intermodulation
- ◆ Low VSWR & Insertion Loss
- ◆ High Isolation, Indoor & Outdoor, IP65
- ◆ Widely used for In-building Solutions

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/01/14	Sam Chen	Created	/
V1.1	2019/1/28	Sam Chen	Add Insertion loss	
V1.2	2020/09/01	Lin liqun	Update Mechanical specifications and front panel layout and Electrical specifications	

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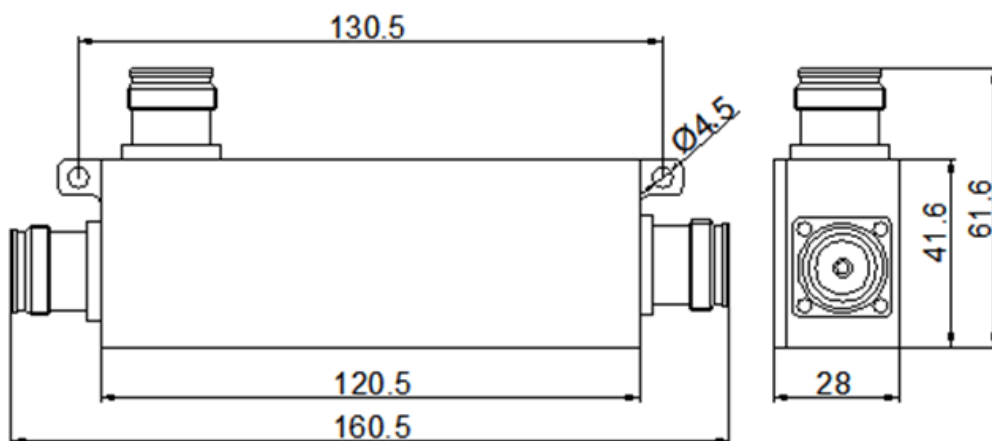
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**1. Mechanical layout**

Table 1 Mechanical specifications

Dimension	5-8dB: LxWxH: 120.5mm x 41.6mm x 28mm
	10-20dB: LxWxH: 122.5mm x 43.6mm x 28mm
Connectors	4.3/10 Female
Finish	Black/Gray/White
Notes	Material shall be RoHS 6/6
Applications	Indoor/Outdoor Use, IP65 ,RoHS Compliant

5-8dB:



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10-20dB:

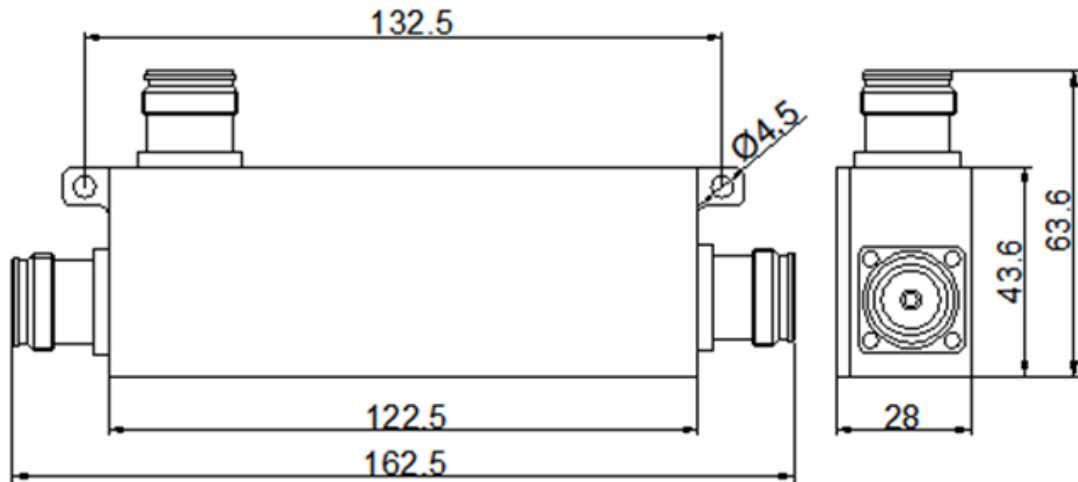


Figure 1 JX-PC-575-6000-XC43DI front panel layout

## 2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	Specification							
1	Frequency range	555-5930MHz							
2	Model number	JX-PC-5 75-6000 -5C43DI	JX-PC-5 75-6000 -6C43DI	JX-PC-5 75-6000 -7C43DI	JX-PC-5 75-6000 -8C43DI	JX-PC-57 5-6000-10 C43DI	JX-PC-57 5-6000-13 C43DI	JX-PC-5 75-6000- 15C43DI	JX-PC-5 75-6000- 20C43DI
3	Coupling(dB)	5±1.1	6±1.1	7±1.2	8±1.2	10±1.2	13±1.3	15±1.35	20±1.4
4	Insertion loss(dB)	2.5	1.9	1.7	1.2	0.9	0.6	0.5	0.3
5	Directivity (dB)	555-3800	20						
		3800-6000	18						
6	VSWR	555-3800	≤1.25:1						
		3800-6000	≤1.30:1						
7	PIM3	-155 dBc@2x43dBm (The tested frequency@900MHz &1800MHz)							
8	Power rating	200W							
9	Impedance	50 Ω							
10	Temperature range	-35°C to +85°C							

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