

# Technical Proposal for JX-DC-140M500M-Nx Directional Coupler

- ◆ High Performance
- ◆ High Reliability
- ◆ RoHS Compliant

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/10/20	Wang	Created	/
V1.1	2020/10/22	Lee	Updated the mechanical layout	JingXin request

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**1. Mechanical specification**

Table 1 Mechanical specifications @ JX-DC-140M500M-Nx

Dimension	L x W x H: 150mm x 55mm x 20mm
Connectors	N-Female
Material	Aluminium
Finish	Conductive Oxide
Notes	Material shall be RoHS 6/6

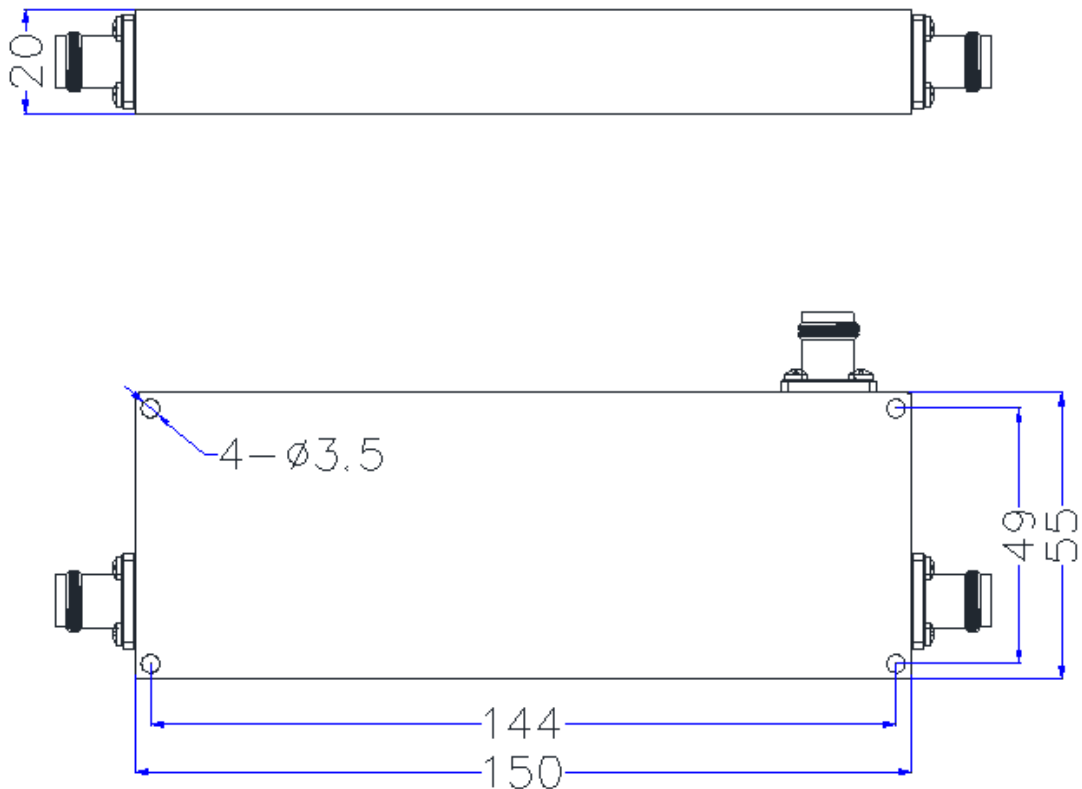


Figure 1 JX-DC-140M500M-Nx front panel layout

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## 2. Electrical specification

Table 2 Electrical specifications @ JX-DC-140M500M-Nx

Item	Parameter	Specifications			
1	Frequency range	140-500MHz			
2	Model number	JX-DC-140M500 M-N6	JX-DC-140M500 M-N10	JX-DC-140M500 M-N15	JX-DC-140M500 M-N20
3	Nominal coupling	6±1.0dB	10±1.0dB	15±1.0dB	20±1.0dB
4	Coupling sensitivity	±0.7dB			
5	Insertion loss	≤0.5dB(Exclusive the 1.30dB Coupling Loss)	≤0.5dB(Exclusive the 0.45dB Coupling Loss)	≤0.5dB(Exclusive the 0.15dB Coupling Loss)	≤0.5dB
6	VSWR	≤1.3			
7	Directivity	≥18dB			
8	Forward power	30W			
9	Impedance	50Ω			
10	Operating temperature	-40°C to +80°C			
11	Storage temperature	-55°C to +85°C			

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