

# Technical proposal for JX-DC-0.5G6G-30SF Directional Coupler

- ◆ High Performance
- ◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2022/03/15	Vivian	Created	/

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## 1. Mechanical layout

Table 1 Mechanical specifications

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Dimension	113.0x15.0x11.0mm
Connector	SMA- Female
Surface Finish	Grey Painting
Notes	Material shall be RoHS 6/6

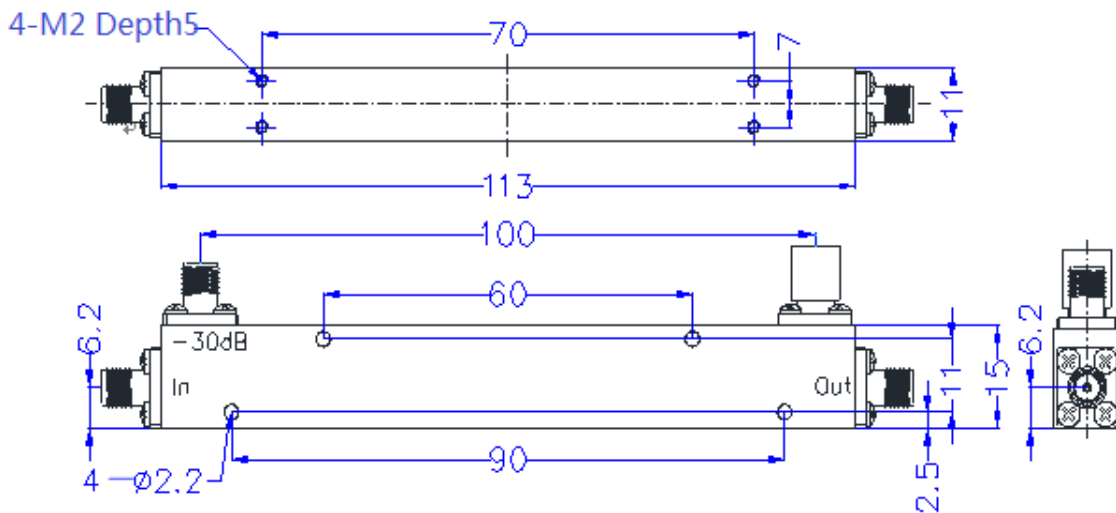


Figure 1 JX-DC-0.5G6G-30SF front panel layout

## 2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	Specifications
1	Frequency range	500-6000MHz
2	VSWR	$\leq 1.25$
3	Impedance	$50\Omega$
4	Nominal Coupling	$30\pm 1\text{dB}$
5	Coupling Sensitivity	$\leq \pm 1.0\text{dB}$
6	Insertion loss	$\leq 0.7\text{dB}$
7	Directivity	$\geq 18\text{dB}$
8	Forward Power	50W
9	Operational Temperature	$-40^{\circ}\text{C}$ to $+80^{\circ}\text{C}$
10	Storage Temperature	$-40^{\circ}\text{C}$ to $+80^{\circ}\text{C}$

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