

# Technical proposal for JX-DC-18G40G-2.92F 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	28.0x15.0x11.0mm
Connector	2.92- Female
Surface Finish	Grey Painting
Notes	Material shall be RoHS 6/6

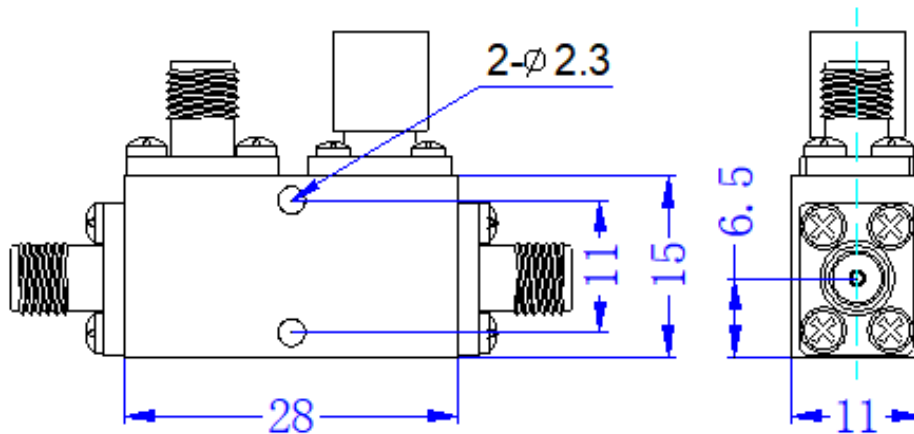


Figure 1 JX-DC-18G40G-2.92F front panel layout

## 2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	Specifications
1	Frequency range	18000-40000MHz
2	VSWR	$\leq 1.60$
3	Impedance	50 $\Omega$
4	Nominal Coupling	20 $\pm$ 1dB
5	Coupling Sensitivity	$\pm$ 1.0dB
6	Insertion loss	$\leq$ 1.6dB
7	Directivity	$\geq$ 12dB
8	Forward Power	20W
9	Operational Temperature	-40 $^{\circ}$ C to +80 $^{\circ}$ C
10	Storage Temperature	-40 $^{\circ}$ C to +80 $^{\circ}$ C

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