

Technical proposal for JX-DC-2G18G-xxSY Directional Coupler

◆ High Performance

◆ High Reliability

Revision History

Version	Date	Author	Revision description	Comment
V1.0	2020/04/22	Lee	Created	/
V1.1	2021/01/27	Lee	Updated the 6dB model number	JingXin request

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1. Mechanical layout

Table 1 Mechanical specifications @ JX-DC-2G18G-xxSY

Dimension	See the figure below
Connectors	SMA-Female
Finish	Black or Grey Painting
Notes	Material shall be RoHS 6/6

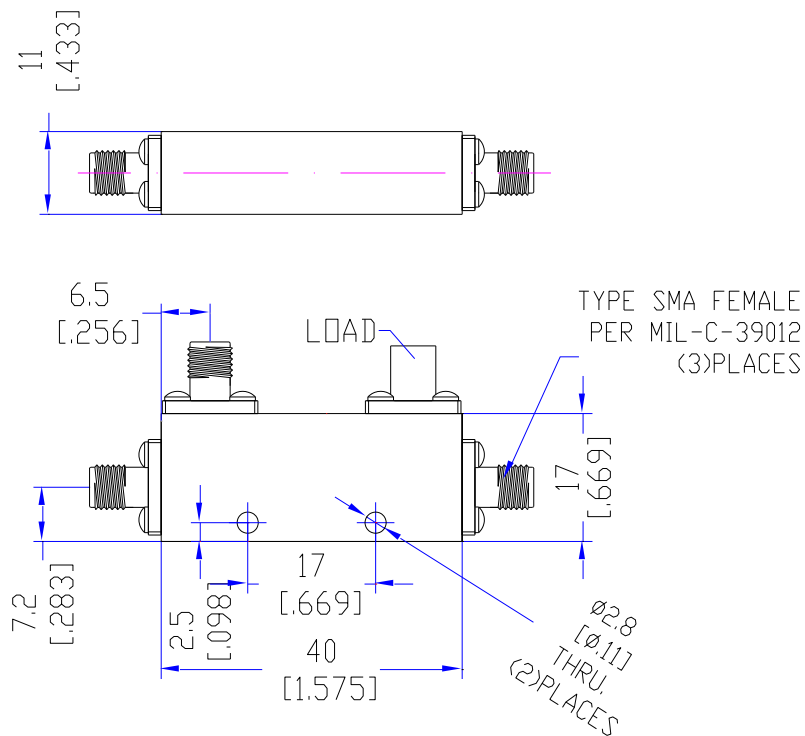


Figure 1 JX-DC-2G18G-6SY front panel layout

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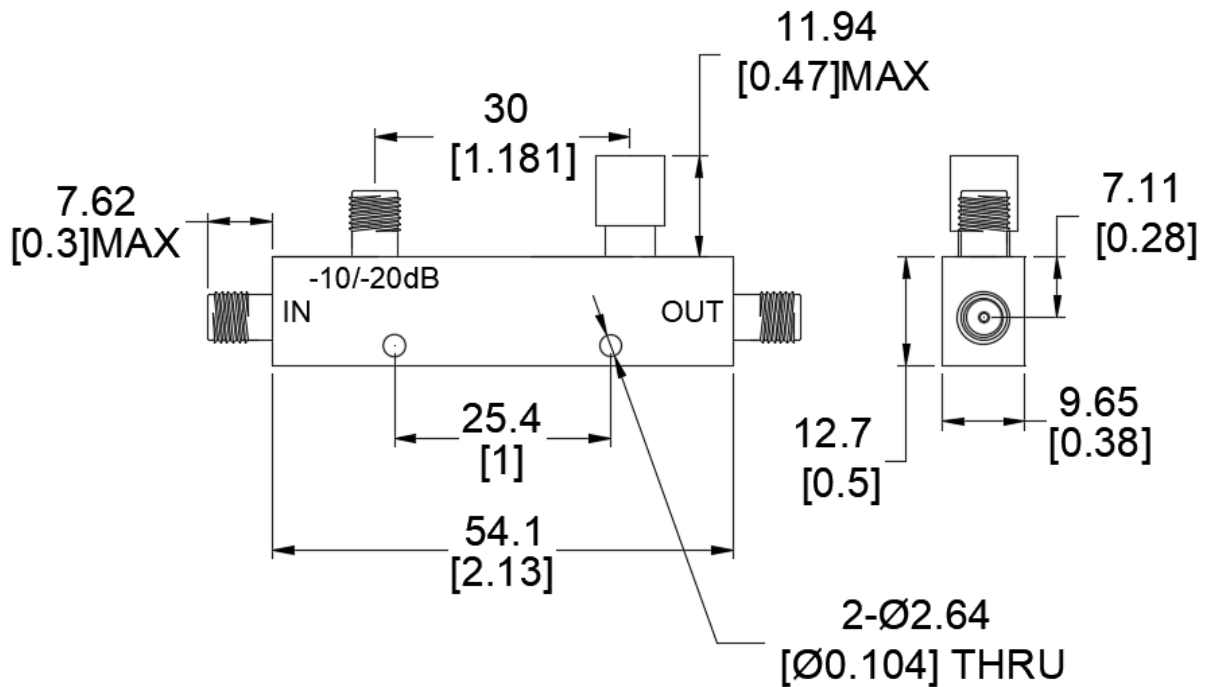


Figure 2 JX-DC-2G18G-10/20SY front panel layout

2. Electrical analysis

Table 2 Electrical specifications @ JX-DC-2G18G-xxSY

Item	Parameter	Specification		
		JX-DC-2G18G-6SY	JX-DC-2G18G-10SY	JX-DC-2G18G-20SY
1	Model number	JX-DC-2G18G-6SY	JX-DC-2G18G-10SY	JX-DC-2G18G-20SY
2	Frequency range	2-18GHz	2-18GHz	2-18GHz
3	VSWR	≤1.50	≤1.50	≤1.50
4	Insertion loss	≤0.9dB (Excluding coupled power 1.26dB)	≤1.2dB	≤1.2dB
5	Nominal coupling	6±0.7dB	10±1.0dB	20±1.0dB
6	Frequency sensitivity	≤±0.7dB	/	
7	Flatness	/	±1.0dB	
8	Average power handling	≤20Watt	≤50Watt	
9	Directivity	≥12dB		
10	Impedance	50 Ω		
11	Operating temperature	-40 to +80°C		
12	Storage temperature	-55 to +85°C		

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