

# Technical proposal for JX-DC-2G4G-30S100W Directional Coupler

◆ High Performance

◆ High Reliability

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2021/10/09	Lee	Created	/

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## 1. Mechanical layout

Table 1 Mechanical specifications @ JX-DC-2G4G-30S100W

Dimension	L x W x H: 55mm x 39mm x 11mm
Connectors	SMA-Female

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Finish	Grey (Paint spraying)
Notes	Material shall be RoHS 6/6

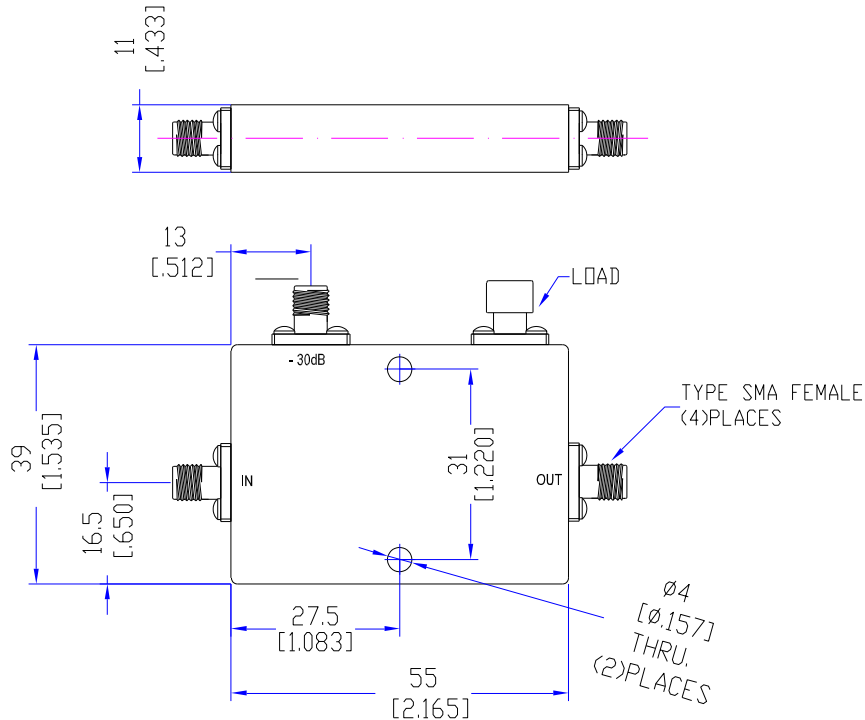


Figure 1 JX-DC-2G4G-30S100W front panel layout

## 2. Electrical specification

Table 2 Electrical specifications @ JX-DC-2G4G-30S100W

Item	Parameter	Specification
1	Frequency range	2-4GHz
2	VSWR	Primary $\leq 1.25:1$ Secondary $\leq 1.25:1$
3	Insertion loss	$\leq 0.3\text{dB}$ (Excl. Coupling Loss 0.01dB)
4	Coupling factor	$\leq 30 \pm 1.0\text{dB}$
5	Coupling sensitivity	$\leq \pm 1.0\text{dB}$
6	Directivity	$\geq 20\text{dB}$
7	Power handling	Incident $\leq 100\text{Watt}$ Reflected $\leq 100\text{Watt}$
8	Impedance	$50 \Omega$

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