

# Technical proposal for JX-PS-2G6G-02N Power Divider

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2019/06/19	Sam Chen	Created	/
V1.1	2019/06/21	Sam Chen	Update technical requirements	/
V1.2	2019/06/25	Sam Chen	Update	/
V1.3	2019/06/28	Sam Chen	Change Installation method	/
V1.5	2019/10/30	Sam Chen	Update Return Loss	-20dB→-18dB

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## 1. Mechanical layout

Table 1 Mechanical Specifications @ JX-PS-2G6G-02N

Item	Parameter	Specification	
1	Dimension	L x W x H: 119mm x 50mm x 28mm ( $\pm 0.2$ mm)	
2	Port connectors	N-Female (Material and Plating)	
		Outer conductor	Brass; Albaloy plating/Powder spraying
		Inner conductor	Spring cooper; Ag 5 um plating
3	Finish	White, Akzo Nobel RAL9016, Powder spraying	
4	Fixation holes	4x $\Phi$ 4.5; Material: Aluminum; Plating: Anti-Oxdation	
5	Environmental conditions	Outdoors	
6	Water Tolerance	IP67	
7	Vibration	5G 5-200Hz,2.5G 5-2000Hz	
8	Shock	20G 11ms( sawtooth Pulse according AREMA 11.5.1)	
9	Altitude	4200m	
10	Salt Mist	EN 60068-2-11(ka Class ST4)	
11	Impedance	50 Ohm all ports	
12	Humidity	95%RH 2cycles à 24H 25°C to 55°C(according EN50155:2017 cyclic damp heat test 13.4.7)	
13	Notes	Material shall be RoHS 6/6 and REACH compliant	

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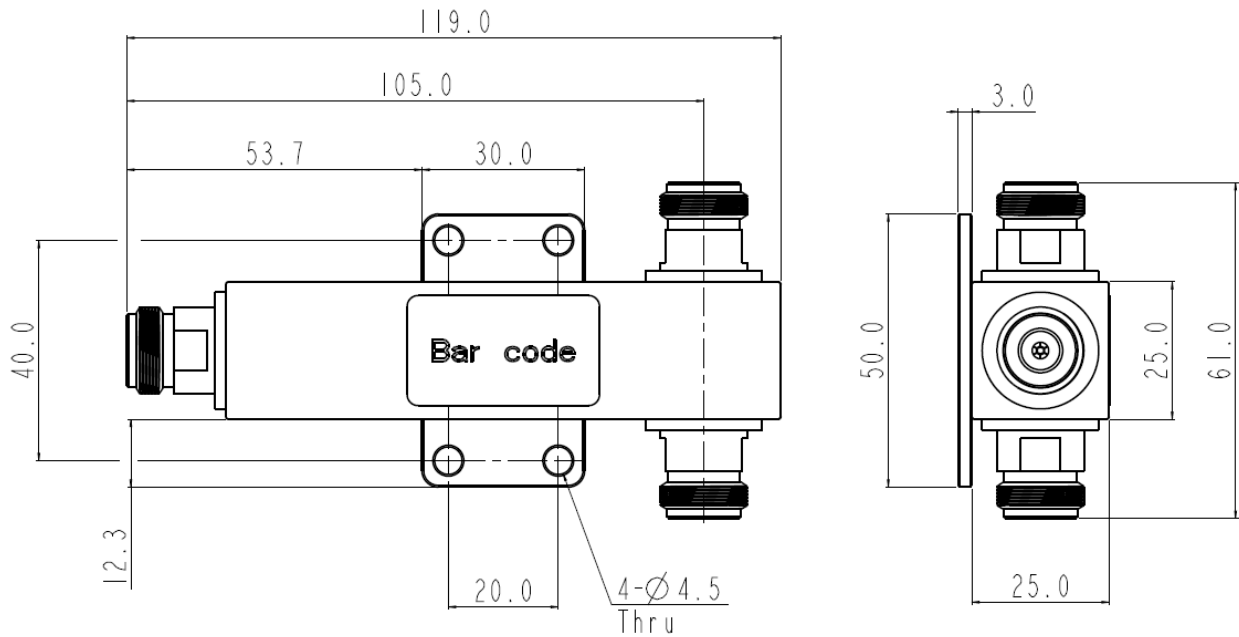


Figure 1 JX-PS-2G6G-02N front panel layout

## 2. Electrical analysis

### 2.1 Electrical specifications

Table 2 Electrical specifications @ JX-PS-2G6G-02N

Item	Parameter	Spec
1	Frequency range	2-6GHz
2	Insertion loss	≤3.3dB (type 3.1dB)
3	Return Loss	≥18dB (type 20dB)
4	Isolation between output ports	≥3.0dB
5	Amplitude Balance	±0.5dB (type 0.2dB)
6	Phase Balance	≤10°
7	Power Rating	300W
8	Operating Temperature	-40-85°C

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