

# Technical proposal for JX-AT-DCxG-xWNx Variable Attenuator

- ◆ High Performance
- ◆ High Reliability
- ◆ Small Volume

## Revision History

Version	Date	Author	Revision description	Comment
V1.0	2023/02/08	Vivian	Created	/

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## 1. Mechanical layout

Table 1 Mechanical Specifications

Dimension	Φ48mm x 163mm
Connector type	SMA (F, F) (DC-18) / 3.5(F, F) (DC-26.5)
Connectors	Stainless Steel
Female Pin	Beryllium Copper Gold Plated
Housing	Aluminum
Weight	480g
Notes	Material shall be RoHS 6/6

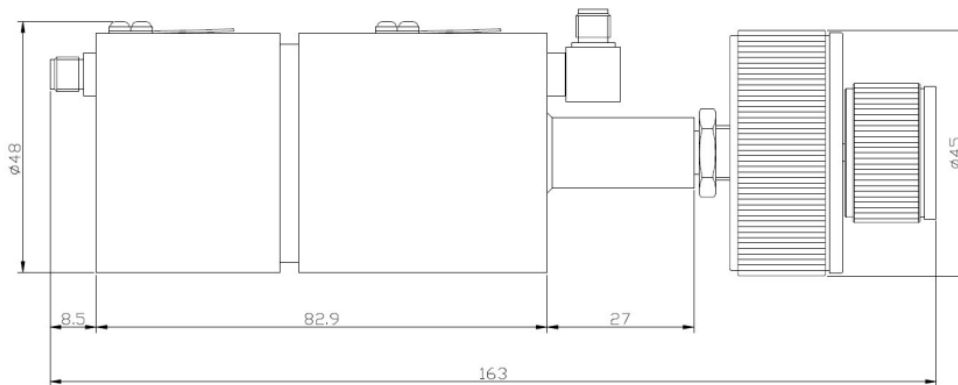


Figure 1 JX-AT-DCxG-xWNx front panel layout

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## 2. Electrical analysis

Table 2 Electrical specifications

Item	Parameter	specification						
		JX-AT-DC8 G-xWNx	JX-AT-DC 12.4G-xW Nx	JX-AT-DC 18G-xWN x	JX-AT-DC2 6.5G-xWNx	JX-AT-DC8 G-xWNx	JX-AT-D C12.4G-x WNx	JX-AT-D C18G-xW Nx
1	Model Number							
2	Frequency Range(GHz)	8G	12.4G	18G	26.5G	8G	12.4G	18G
3	Attenuation Step Size	0-69dB in 1dB steps				0-99dB in 1dB steps		
4	Max VSWR	1.50	1.60	1.75	2.0	1.50	1.60	1.75
5	Insertion Loss(dB)	≤1.0	≤1.25	≤1.5	≤2.0	≤1.0	≤1.25	≤1.5
6	Attenuation Accuracy(dB)	±0.5dB (0~9dB) ±1.0dB (10~19dB) ±1.5dB (20~49dB) ±2.0dB (50~69dB)	±0.8dB (0~9dB) ±1.0dB (10~19dB) ±1.5dB (20~49dB) ±2.0dB (50~69dB)		±1.5dB (1~9dB) ±1.75dB (10~19dB) ±2.0dB (20~49dB) ±2.5dB (50~69dB)	±0.5dB (0~9dB) ±1.0dB (10~19dB) ±1.5dB (20~49dB) ±2.0dB (50~69dB) ±2.5dB or 3.5% (70~99dB)	±0.8dB(0~9dB) ±1.0dB(10~19dB) ±1.5dB(20~49dB) ±2.0dB(50~69dB) ±2.5dB or 3.5% (70~99dB)	
7	Nominal Impedance	50 Ω						
8	Average power	2W,5W						
9	Peak power	200W (5μs pulse width with 1% duty cycle)						
10	Temperature Range	0°C~+54°C						

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