Coaxial Fixed Attenuator RFH18XXND600-F

DC-18 GHz, 10-60 dB, 600 Watts, N, Unidirectional, Forced air cooled

Rev 1

Electrical

Impedance	50 ohm
Frequency Range	DC-18 GHz
VSWR	1.5 max
Input Avg Power	600W@ 25℃ ambient, derating linearly to 60W at 100℃
Peak Power	1kW (5 micro-sec pulse width, 10% duty cycle)
Direction	Unidirectional, N male input, N female output (other configurations available)

Attenuation(dB)	10	20	30	40	50	60
Accuracy(dB)	±7.0	±7.0	±4.0	±1.5	±1.5	±1.5

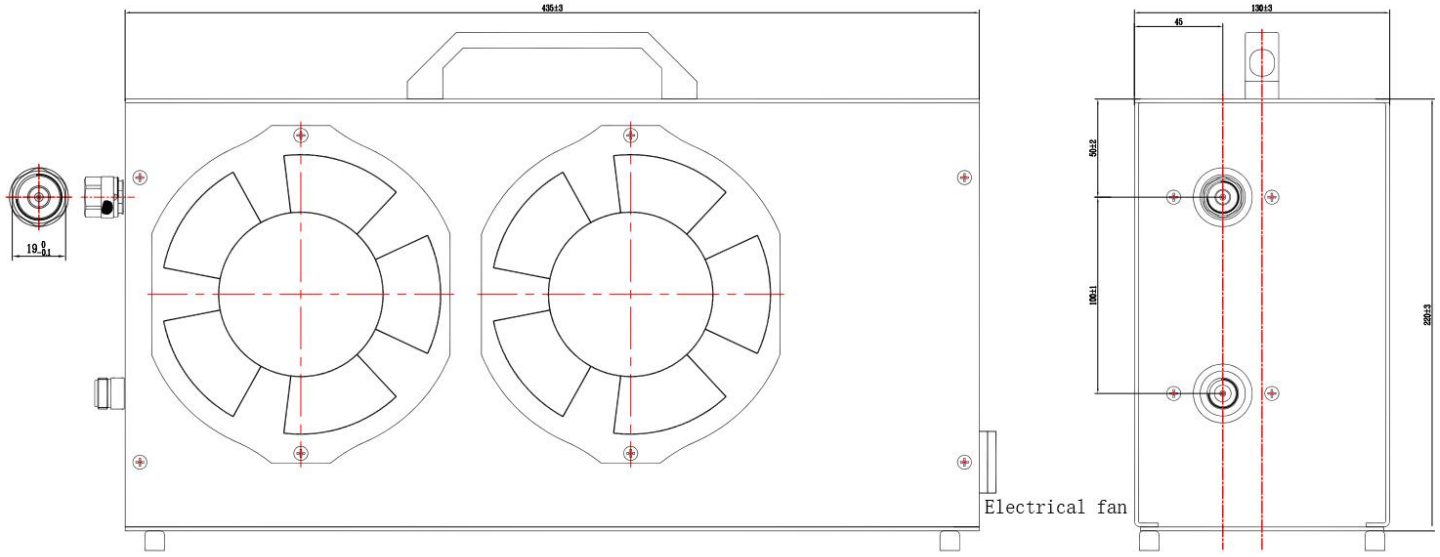
Mechanical

Connector Body	Passivated stainless steel
Heat Sink	Black anodized aluminum
Center Contact	Gold plated beryllium copper/brass
Weight	Net: 7.5kg Gross: 9kg

Environmental

Operating Temperature	-55℃ to 100℃
Storage Temperature	-55℃ to 125℃
RoHS	Compliant
Temperature Coefficient	<0.0004 dB/dB/℃

Dimensions(mm)



Coaxial Fixed Attenuator RFH18XXND600-F

DC-18 GHz, 10-60 dB, 600 Watts, N, Unidirectional, Forced air cooled

Rev 1

Model Description

RFH18XXND600-F

1.XX for dB value: 20=20dB, 30=30dB

2.Code for connector configuration:

A=female for two ends; B=male for two ends

C=female for input and male for output; D=male for input and female for output.

Notes

1.Always pay attention to the direction of attenuators.

2. Addtional transformer and plug adapter available upon request.

3. Switch on the electrical fan once the attenuator is in operation.

Coaxial Fixed Attenuator **RFH18XXND600-F**

DC-18 GHz, 10-60 dB, 600 Watts, N, Unidirectional, Forced air cooled

Rev 1

Instructions and Warnings

The following instructions and warnings are applicable to fan-cooled 18GHz 600 W Unidirectional Attenuators.

1. Please monitor total input power which must be **lower** than specified average power 600W and peak power 1000W, e.g., do check if there are simultaneous presence of both fundamental and 3rd harmonic frequency signals.
2. Check the signal source and load etc. in the system are all in good impedance matching.
3. Turn on system power starting from low power such as 60 W, and increase the power step by step.
4. Before disconnect the attenuator, make sure turn off all the power (RF power and DC power) first.
5. Keep the air cooling fan running during operation.
6. This is **unidirectional** attenuator. Do not connect output port to input.
7. In order to achieve the 18 GHz high frequency performance, dimensionally smaller resistors are used in this high power 600 W attenuator. For optimal longevity, it is recommended to maintain margins of ⩾30% under sustained power input conditions.
8. Continuous operation of the 18 GHz 600W attenuator at maximum rated power may result in accelerated degradation of operational lifetime.
9. For Indoor use only, prevent shock, vibration and humidity.
10. Protect the connectors by dust caps when unused.