

# Coaxial Fixed Attenuator

# RFH18XXSD30

DC-18 GHz, 1-60 dB, 30 Watts, SMA, Unidirectional



Rev 1

### Electrical

|                        |  |       |       |       |       |       |
|------------------------|--|-------|-------|-------|-------|-------|
| <b>Impedance</b>       | 50 ohm   |       |       |       |       |       |
| <b>Frequency Range</b> | DC-18 GHz  |       |       |       |       |       |
| <b>VSWR</b>            | 1.35 max   |       |       |       |       |       |
| <b>Input Avg Power</b> | 30W@ 25°C ambient, derating linearly to 3W at 100°C                                |       |       |       |       |       |
| <b>Peak Power</b>      | 1kW (5 micro-sec pulse width, 1% duty cycle)                                       |       |       |       |       |       |
| <b>Direction</b>       | Unidirectional, SMA male input, SMA female output (other configurations available) |       |       |       |       |       |
| <b>Attenuation(dB)</b> | 1-10   | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 |
| <b>Accuracy(dB)</b>    | ±0.8   | ±0.9  | ±1.0  | ±1.2  | ±1.3  | ±1.5  |

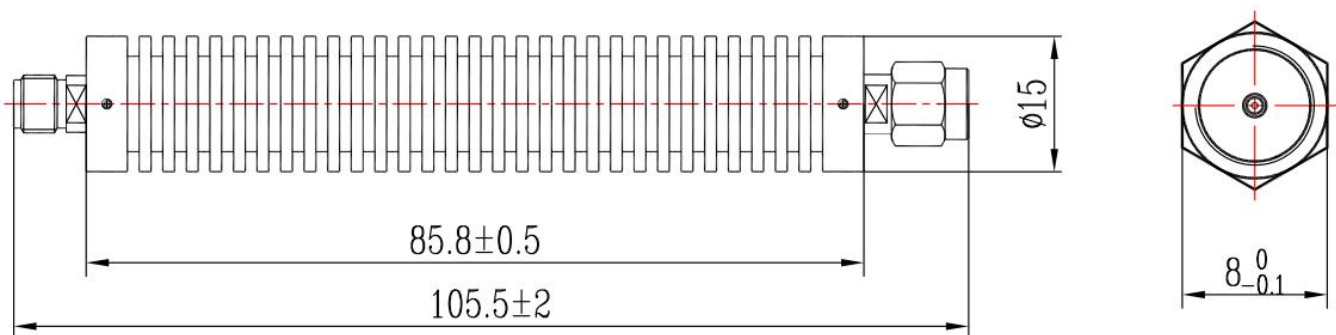
### Mechanical

|                       |                                    |
|-----------------------|------------------------------------|
| <b>Connector Body</b> | Passivated stainless steel         |
| <b>Heat Sink</b>      | Black anodized aluminum            |
| <b>Center Contact</b> | Gold plated beryllium copper/brass |
| <b>Weight</b>         | Approx 40g                         |

### Environmental

|                                |                  |
|--------------------------------|------------------|
| <b>Operating Temperature</b>   | -55°C to 100°C   |
| <b>Storage Temperature</b>     | -55°C to 125°C   |
| <b>RoHS</b>                    | Compliant        |
| <b>Temperature Coefficient</b> | <0.0004 dB/dB/°C |

### Dimensions(mm)



### Notes

1. Always pay attention to the direction of attenuators.
2. To maintain best performance, recommended to use fan to keep the case temperature under 85°C.
3. Customized dB values, outlines and optimal accuracy/VSWR available.

### Model Description

#### RFH18XXSD30

1. XX for dB value: 06=6dB, 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.