

## Coaxial Fixed Attenuator

## RFH18XXTD100

DC-18 GHz, 1-40 dB, 100 Watts, TNC, Unidirectional

Rev 5

### Electrical

|                 |                                                                                    |       |       |       |
|-----------------|------------------------------------------------------------------------------------|-------|-------|-------|
| Impedance       | 50 ohm                                                                             |       |       |       |
| Frequency Range | DC-18 GHz                                                                          |       |       |       |
| VSWR            | 1.45 max                                                                           |       |       |       |
| Input Avg Power | 100W@ 25°C ambient, derating linearly to 10W at 100°C                              |       |       |       |
| Peak Power      | 1kW (5 micro-sec pulse width, 5% duty cycle)                                       |       |       |       |
| Direction       | Unidirectional, TNC male input, TNC female output (other configurations available) |       |       |       |
| Attenuation(dB) | 6-10                                                                               | 11-20 | 21-30 | 31-40 |
| Accuracy(dB)    | ±0.8                                                                               | ±1.0  | ±1.2  | ±1.2  |

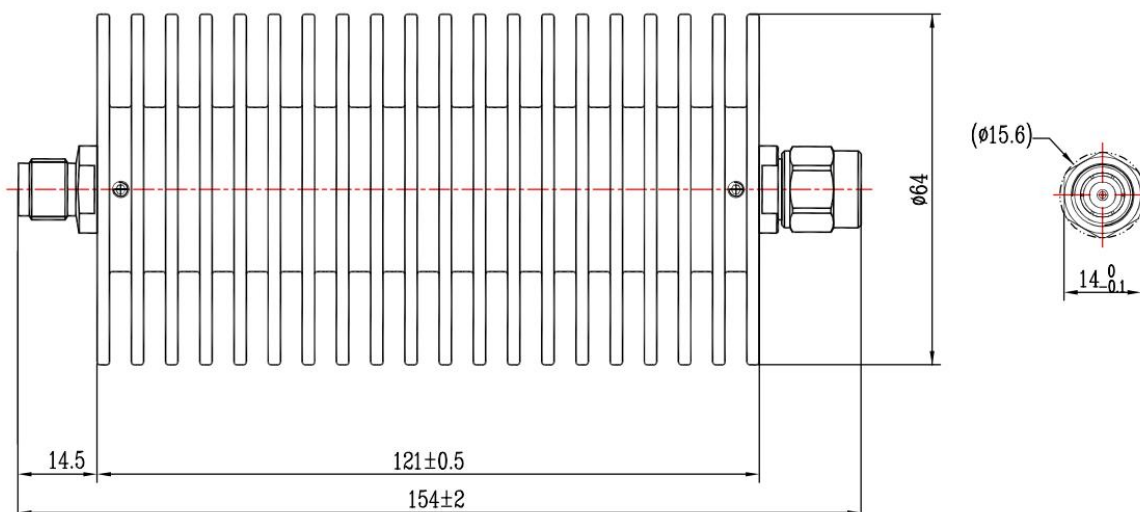
### Mechanical

|                |                                    |
|----------------|------------------------------------|
| Connector Body | Ternary alloy plated brass         |
| Heat Sink      | Black anodized aluminum            |
| Center Contact | Gold plated beryllium copper/brass |
| Net Weight     | Approx 570 g                       |

### Environmental

|                         |                  |
|-------------------------|------------------|
| Operating Temperature   | -55°C to 100°C   |
| Storage Temperature     | -55°C to 125°C   |
| RoHS                    | Compliant        |
| Temperature Coefficient | <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

#### RFH18XXTD100

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.