



# WFA18K5

## DC~18GHz, 500W

- Features:
- \* Low VSWR
  - \* High Attenuation Flatness

- Applications:
- \* Wireless
  - \* Transmitter
  - \* Laboratory Test
  - \* Radar



### Electrical

Frequency: DC~18GHz  
 Attenuation: 3dB, 6dB, 10~60dB  
 Impedance: 50Ω  
 Average Power\*1: 500W@25°C max.  
 Peak Power: 5KW (5μS pulse width, 5% duty cycle) @N DC~12.4GHz  
 1KW (5μS pulse width, 25% duty cycle) @N 18GHz

[1] Derated linearly to 25W@120°C.

### Mechanical

RF Connectors: N Male, N Female

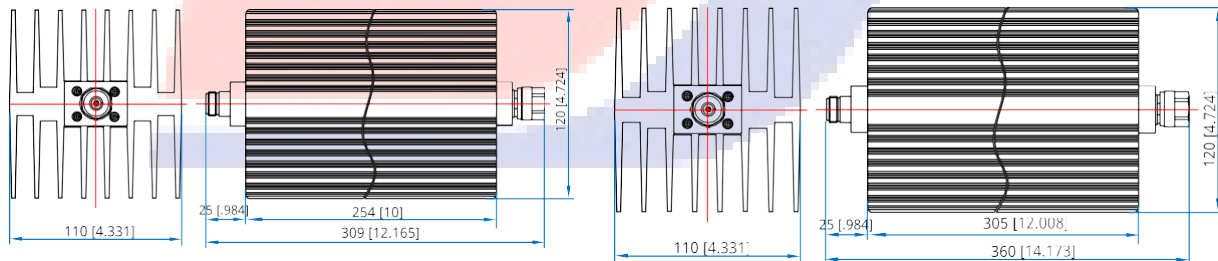
### Environmental

Temperature: -55~+125°C

### Attenuation Accuracy and VSWR

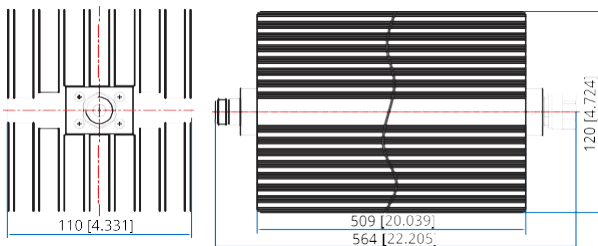
Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)								VSWR (max.)
	3	6	10	20	30	40	50	60	
DC~4	0/+1.5	-1.0/+2.0	-0.6/+1.5	1.2	1.0	1.0	1.0	1.0	1.25
DC~8	0/+3.0	-1.0/+4.0	-0.5/+2.0	2.0	1.5	1.1	1.1	1.1	1.30
DC~12.4	0/+6.0	-1.0/+7.0	3.0	2.0	-1.5/+2.0	1.2	1.2	1.2	1.35
DC~18	0/+9.0	-1.0/+10.0	6.0	5.0	0/+6.0	1.5	1.5	1.5	1.50

### Outline Drawings



Outline A

Outline B



Outline C

Unit: mm [in] Tolerance: ±2mm [±0.08in]



**How To Order**

**WFA18K5-X-Y-Z**

X: Frequency in GHz

Y: Attenuation in dB

3dB, DC~18GHz (Outline A)

6dB, DC~18GHz (Outline B)

10~60dB , DC~18GHz (Outline C)

Z: Connector type

Connector naming rules:

N -N

Examples:

To order an attenuator, DC~18GHz, N male to N female, 30dB attenuation, specify WFA18K5-18-30-N.

