



# WFA1805

## DC~18GHz, 5W

Features:  
 \* Low VSWR  
 \* High Attenuation Flatness

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



### Electrical

Frequency: DC~18GHz  
 Attenuation: 1~60dB  
 Impedance: 50Ω  
 Average Power\*1: 5W@25°C max.  
 Peak Power: 500W (5μS pulse width, 0.5% duty cycle) @SMA  
 500W (5μS pulse width, 0.25% duty cycle) @N

[1] Derated linearly to 0.25W@120°C.

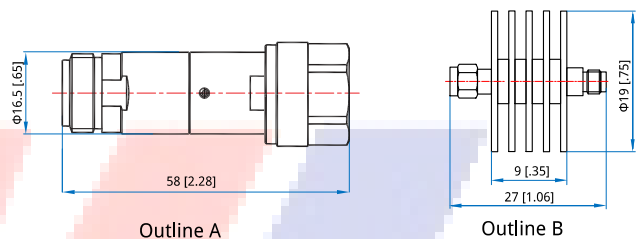
### Mechanical

RF Connectors: N Male, N Female  
 SMA Male, SMA Female

### Environmental

Temperature: -55~+125°C

### Outline Drawings



Unit: mm [in]  
 Tolerance:  $\pm 2$ mm [ $\pm 0.08$ in]

### Attenuation Accuracy and VSWR (N)

Frequency(GHz)	Attenuation Accuracy ( $\pm$ dB) vs. Attenuation (dB)						VSWR (max.)
	1~10	20	30	40	50	60	
DC~4	0.4	0.5	0.6	0.7	0.7	0.8	1.15
DC~8	0.5	0.6	0.8	0.8	0.8	0.9	1.20
DC~12.4	0.6	0.7	0.8	0.9	1.0	1.1	1.30
DC~18	0.7	0.8	1.0	1.2	1.3	1.3	1.35

### Attenuation Accuracy and VSWR (SMA)

Frequency(GHz)	Attenuation Accuracy ( $\pm$ dB) vs. Attenuation (dB)			VSWR (max.)
	1~10	11~20	21~30	
DC~4	0.4	0.5	0.7	1.2
4~8	0.5	0.6	0.8	1.25
8~12.4	0.6	0.7	0.9	1.35
12.4~18	0.6	0.8	1.0	1.45

### How To Order

**WFA1805-X-Y-Z**

X: Frequency in GHz  
 Y: Attenuation in dB  
 Z: Connector type

### Examples:

To order an attenuator, DC-18GHz, N male to N female, 3dB attenuation, specify WFA1805-18-3-N.

### Connector naming rules:

N - N (Outline A)  
 S - SMA (Outline B)