

## N Coaxial Fixed Attenuators

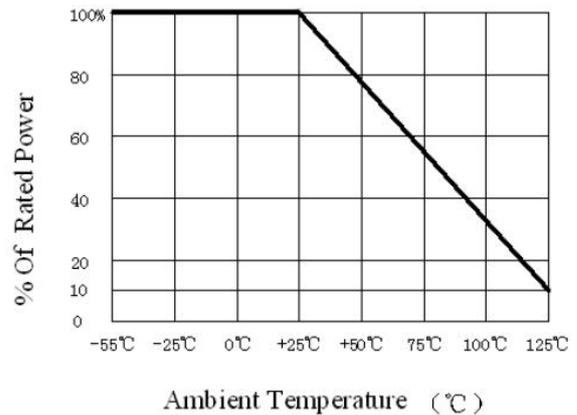
### Electrical Features

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Average Power:** 5W-1000W
- ✧ **Frequency Range:** DC-18GHz
- ✧ **Attenuation Value:** 1-50dB
- ✧ **Operating Temperature:** -55℃ to +125℃
- ✧ **Connector Type:** N (Male/Female)
- ✧ **RoHS Compliant**

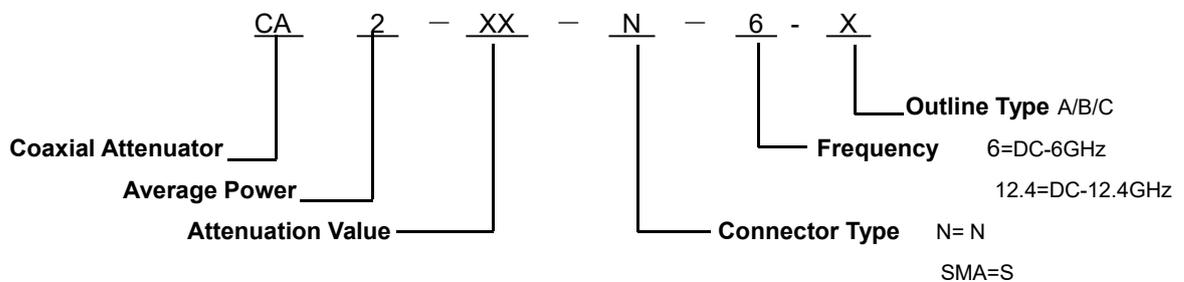
### Mechanical Features

- ✧ **Housing:** Aluminum
- ✧ **Connectors:** Brass Nickel Plated
- ✧ **Male Pin:** Brass Gold Plated
- ✧ **Female Pin:** Beryllium Copper Gold Plated
- ✧ **Mechanical Tolerance:** ±5%
- ✧ **Packaging:** Box

### Power Derating



### HOW TO ORDER



### General Specifications for N Connector 5W-1000W DC-18GHz

Part Number	Average Power (W)	Frequency Range (GHz)	Attenuation Value (dB)	VSWR (Max.)	Peak Power (KW)	Outline Dimensions (mm)
CA5-XX-N-3-A	5	DC-3	1-9, 10, 20, 30, 40	1.20	0.5	Φ21x58
CA5-XX-N-6-A	5	DC-6	1-9, 10, 20, 30, 40	1.30	0.5	Φ21x58
CA5-XX-N-12.4-B	5	DC-12.4	1-9, 10, 20, 30, 40	1.30	0.5	Φ21x52
CA5-XX-N-18-B	5	DC-18	1-9, 10, 20, 30, 40	1.35	0.5	Φ21x52
CA10-XX-N-3-A	10	DC-3	3, 6, 10, 20, 30, 40, 50	1.20	0.5	Φ30x58
CA10-XX-N-6-A	10	DC-6	3, 6, 10, 20, 30, 40, 50	1.30	0.5	Φ30x58
CA10-XX-N-12.4-B	10	DC-12.4	3, 6, 10, 20, 30, 40, 50	1.30	0.5	Φ21x71
CA10-XX-N-18-B	10	DC-18	3, 6, 10, 20, 30, 40, 50	1.35	0.5	Φ21x71
CA30-XX-N-3-A	30	DC-3	3, 6, 10, 20, 30, 40, 50	1.20	1	Φ45x109
CA30-XX-N-6-A	30	DC-6	3, 6, 10, 20, 30, 40, 50	1.30	1	Φ45x109
CA30-XX-N-12.4-B	30	DC-12.4	3, 6, 10, 20, 30, 40, 50	1.30	1	Φ45x90
CA30-XX-N-18-B	30	DC-18	3, 6, 10, 20, 30, 40, 50	1.35	1	Φ45x90
CA50-XX-N-3-A	50	DC-3	3, 6, 10, 20, 30, 40, 50	1.20	10	Φ45x90
CA50-XX-N-6-A	50	DC-6	3, 6, 10, 20, 30, 40, 50	1.30	10	Φ45x90
CA50-XX-N-3-B	50	DC-3	3, 6, 10, 20, 30, 40, 50	1.20	10	80x60x60
CA50-XX-N-6-B	50	DC-6	3, 6, 10, 20, 30, 40, 50	1.30	10	80x60x60
CA50-XX-N-12.4-C	50	DC-12.4	3, 6, 10, 20, 30, 40, 50	1.30	1	Φ64x90
CA50-XX-N-18-C	50	DC-18	3, 6, 10, 20, 30, 40, 50	1.35	1	Φ64x90
CA100-XX-N-3-A	100	DC-3	3, 6, 10, 20, 30, 40, 50	1.20	10	120x100x60
CA100-XX-N-6-A	100	DC-6	3, 6, 10, 20, 30, 40, 50	1.30	10	120x100x60
CA100-XX-N-10-B	100	DC-10	3, 6, 10, 20, 30, 40	1.40	1	130x76x76
CA100-XX-N-12.4-C	100	DC-12.4	3, 6, 10, 20, 30, 40, 50	1.30	1	Φ64x254
CA100-XX-N-18-C	100	DC-18	3, 6, 10, 20, 30, 40, 50	1.35	1	Φ64x254

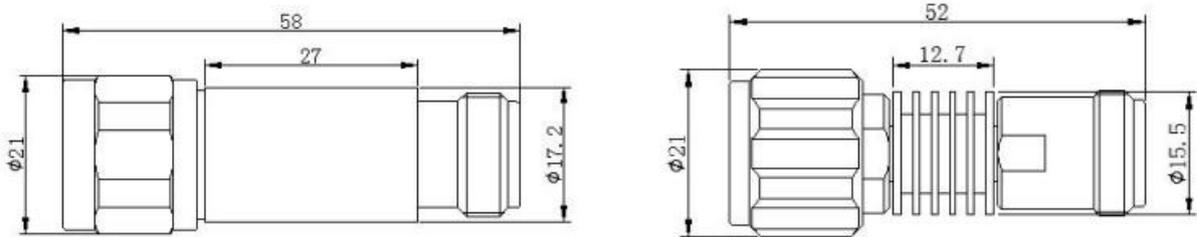
Part Number	Average Power (W)	Frequency Range (GHz)	Attenuation Value (dB)	VSWR (Max.)	Peak Power (KW)	Outline Dimensions (mm)
CA150-XX-N-12.4-A	150	DC-12.4	3, 6, 10, 20, 30, 40, 50	1.35	1	Φ64x310
CA150-XX-N-18-A	150	DC-18	3, 6, 10, 20, 30, 40, 50	1.40	1	Φ64x310
CA200-XX-N-3-A	200	DC-3	3, 6, 10, 20, 30, 40, 50	1.20	10	200x142x65
CA200-XX-N-6-A	200	DC-6	3, 6, 10, 20, 30, 40, 50	1.35	10	200x142x65
CA200-XX-N-6-B	200	DC-10	3, 6, 10, 20, 30, 40	1.40	1	200x142x65
CA200-XX-N-12.4-C	200	DC-12.4	10, 20, 30, 40, 50	1.40	1	Φ64x363
CA200-XX-N-18-C	200	DC-18	10, 20, 30, 40, 50	1.50	1	Φ64x363
CA300-XX-N-3-A	300	DC-3	3, 6, 10, 20, 30, 40, 50	1.30	10	230x160x87
CA300-XX-N-6-A	300	DC-6	3, 6, 10, 20, 30, 40, 50	1.40	10	230x160x87
CA300-XX-N-10-B	300	DC-10	3, 6, 10, 20, 30, 40	1.45	1	245x120x100
CA500-XX-N-3-A	500	DC-3	10, 20, 30, 40, 50	1.30	10	400x245x97
CA500-XX-N-6-A	500	DC-6	10, 20, 30, 40, 50	1.45	10	400x245x97
CA1000-XX-N-3-A	1000	DC-3	10, 20, 30, 40, 50	1.35	10	400x410x147
CA1000-XX-N-4-A	1000	DC-4	10, 20, 30, 40, 50	1.45	10	400x410x147

## N, DC-18GHz, 5W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 5W
- ◇ **Peak Power:** 0.5KW (5μs Pulse, 1% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ21x58mm , Φ21x52mm
- ◇ **Net Weight:** 64g, 50g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)					VSWR (Max.)	Sizes (mm)
		1-9	10	20	30	40		
CA5-XX-N-3-A	DC-3	±0.4	±0.5	±0.6	±0.6	±0.8	1.20	Φ21x58mm
CA5-XX-N-6-A	DC-6	±0.5	±0.6	±0.8	±0.8	±1.0	1.30	
CA5-XX-N-12.4-B	DC-12.4	±0.6	±0.6	±0.8	±0.8	±1.0	1.30	Φ21x52mm
CA5-XX-N-18-B	DC-18	±0.8	±0.8	±1.0	±1.0	±1.2	1.35	

\* xx refer to attenuator value in dB.

### Notes:

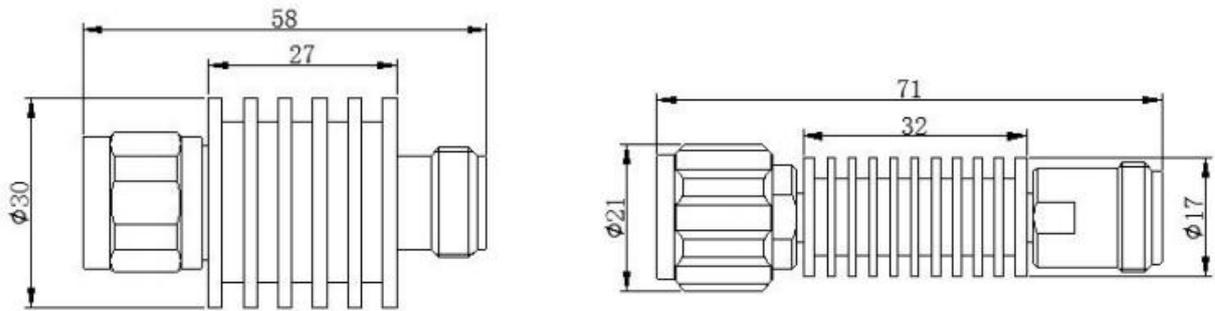
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-18GHz, 10W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 10W
- ◇ **Peak Power:** 0.5KW (5μs Pulse, 2% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ30x58mm, Φ21x71mm
- ◇ **Net Weight:** 76g, 19g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)	Sizes (mm)
		3	6	10	20	30	40	50		
CA10-XX-N-3-A	DC-3	±0.4	±0.4	±0.6	±0.8	±0.8	±1.0	±1.0	1.20	Φ30x58
CA10-XX-N-6-A	DC-6	±0.5	±0.5	±0.6	±0.8	±1.0	±1.0	±1.0	1.30	
CA10-XX-N-12.4-B	DC-12.4	±0.6	±0.6	±0.6	±0.8	±1.0	±1.0	/	1.30	Φ21x71
CA10-XX-N-18-B	DC-18	±0.8	±0.8	±0.8	±0.8	±1.2	±1.2	/	1.35	

\* xx refer to attenuator value in dB.

### Notes:

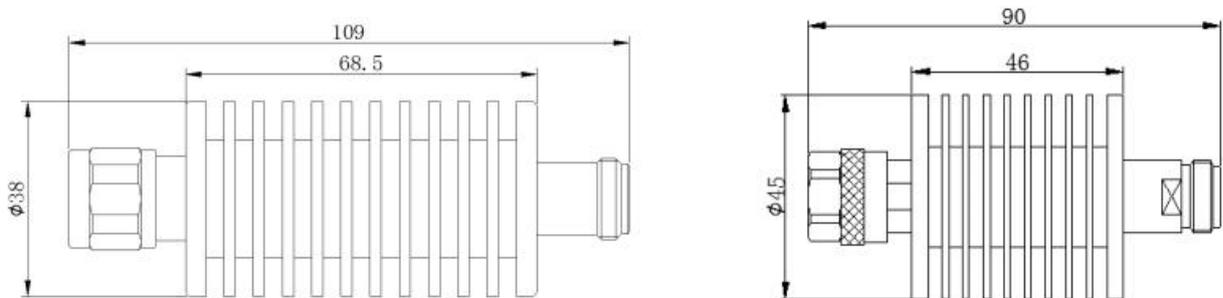
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-18GHz, 30W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 30W
- ◇ **Peak Power:** 1KW (5μs Pulse, 3% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ45x109mm , Φ45x90mm
- ◇ **Net Weight:** 245g, 150g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)	Sizes (mm)
		3	6	10	20	30	40	50		
CA30-XX-N-3-A	DC-3	±0.4	±0.4	±0.5	±0.6	±0.8	±1.0	±1.0	1.20	Φ45x109
CA30-XX-N-6-A	DC-6	±0.6	±0.6	±0.8	±0.8	±1.0	±1.2	±1.5	1.30	
CA30-XX-N-12.4-B	DC-12.4	±1.0	±1.0	±1.0	±1.0	±1.2	±1.2	±1.5	1.20	Φ45x90
CA30-XX-N-18-B	DC-18	-1.0/+1.5			-1.0/+2.0			1.35		

\* xx refer to attenuator value in dB.

### Notes:

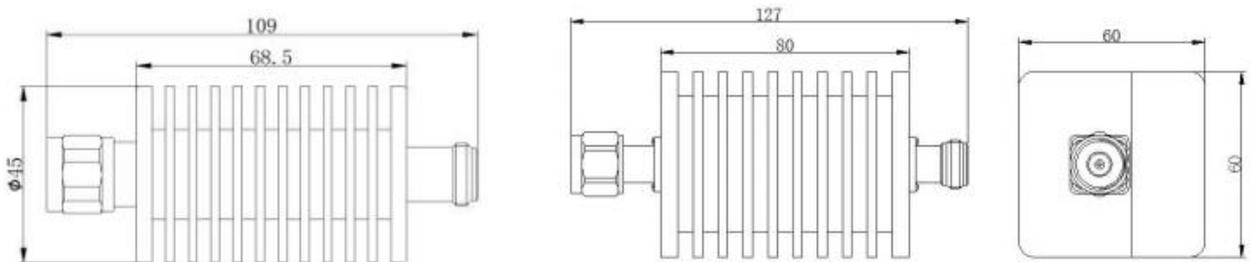
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-6GHz, 50W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 50W
- ◇ **Peak Power:** 10KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ45x109mm , 80x60x60mm
- ◇ **Net Weight:** 245g, 416g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)	Sizes (mm)
		3	6	10	20	30	40	50		
CA50-XX-N-3-A	DC-3	±0.4	±0.4	±0.5	±0.6	±0.8	±1.0	±1.5	1.20	Φ45x109
CA50-XX-N-6-A	DC-6	±0.6	±0.6	±0.8	±0.8	±0.8	±1.0	±1.5	1.30	
CA50-XX-N-3-B	DC-3	±0.4	±0.4	±0.5	±0.6	±0.8	±1.0	±1.5	1.20	80x60x60
CA50-XX-N-6-B	DC-6	±0.6	±0.8	±1.0	±1.0	±1.2	±1.5	±2.0	1.30	

\* xx refer to attenuator value in dB.

### Notes:

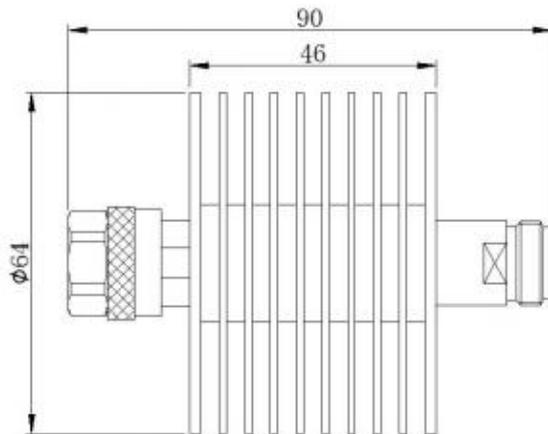
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-18GHz, 50W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 50W
- ◇ **Peak Power:** 1KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ64x90mm
- ◇ **Net Weight:** 230g
- ◇ **RoHS Compliant**
- ◇ **Optional/Customized Brackets**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)
		3	6	10	20	30	40	50	
CA50-XX-N-12.4-C	DC-12.4	±1.0	±1.0	±1.0	±1.0	±1.2	±1.2	±1.5	1.30
CA50-XX-N-18-C	DC-18	-1.0/+1.5			-1.0/+2.0			1.35	

\* xx refer to attenuator value in dB.

### Notes:

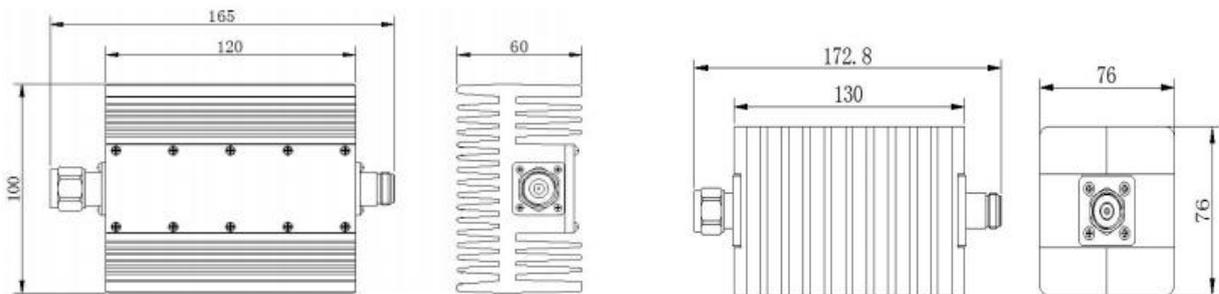
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-10GHz, 100W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 100W
- ◇ **Peak Power:** 10KW (5μs Pulse, 1% Duty Cycle) for 120x100x60mm  
1KW (5μs Pulse, 1% Duty Cycle) for 130x76x76mm
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55°C to +125°C
- ◇ **Dimension:** 120x100x60mm, 130x76x76mm
- ◇ **Net Weight:** 1.25kg, 950g
- ◇ **RoHS Compliant**
- ◇ **Optional/Customized Brackets**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)	Sizes (mm)
		3	6	10	20	30	40	50		
CA100-XX-N-3-A	DC-3	±0.4	±0.4	±0.6	±0.8	±1.0	±1.2	±1.5	1.20	120x100x60
CA100-XX-N-6-A	DC-6	±0.6	±0.8	±1.0	±1.0	±1.2	±1.5	±2.0	1.30	
CA100-XX-N-10-B	DC-10	±0.6	±0.8	±1.0	±1.2	±1.5	±2.0	/	1.40	130x76x76

\* xx refer to attenuator value in dB.

### Notes:

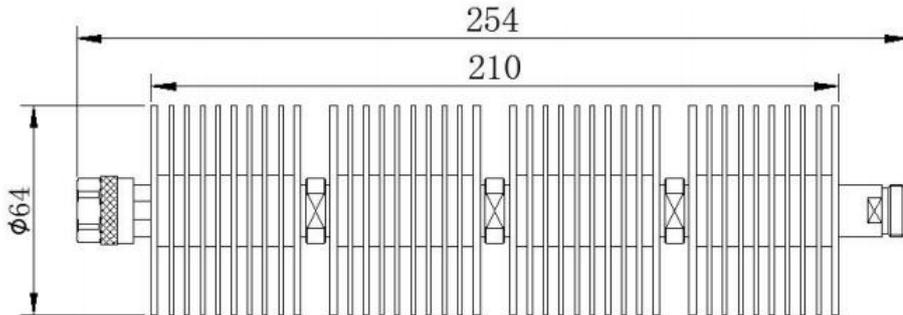
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-18GHz, 100W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 100W
- ◇ **Peak Power:** 1KW (5μs Pulse, 10% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ64x254mm
- ◇ **Net Weight:** 780g
- ◇ **RoHS Compliant**
- ◇ **Optional/Customized Brackets**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)						VSWR (Max.)
		3	6	10	20	30	40	
CA100-XX-N-12.4-C	DC-12.4	-1.0/+1.5	-1.0/+2.5	-1.0/+2.0		-1.0/+1.5	-1.0/+2.0	1.30
CA100-XX-N-18-C	DC-18	-1.0/+2.5	-1.0/+3.0	-1.0/+2.0				1.35

\* xx refer to attenuator value in dB.

### Notes:

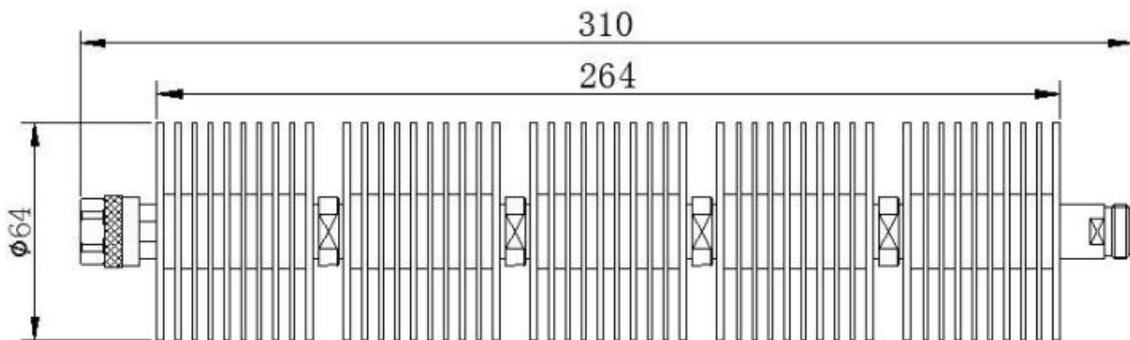
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-18GHz, 150W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 150W
- ◇ **Peak Power:** 1KW (5μs Pulse, 10% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ64x310mm
- ◇ **Net Weight:** 950g
- ◇ **RoHS Compliant**
- ◇ **Optional/Customized Brackets**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)
		3	6	10	20	30	40	50	
CA150-XX-N-12.4-A	DC-12.4	±1.5	-1.0/+2.5	±2.0	±2.0	±2.0	±2.0	±2.0	1.35
CA150-XX-N-18-A	DC-18	-1.0/+2.5	-1.0/+2.5	±2.0	±2.0	±2.0	±2.0	±2.0	1.40

\* xx refer to attenuator value in dB.

### Notes:

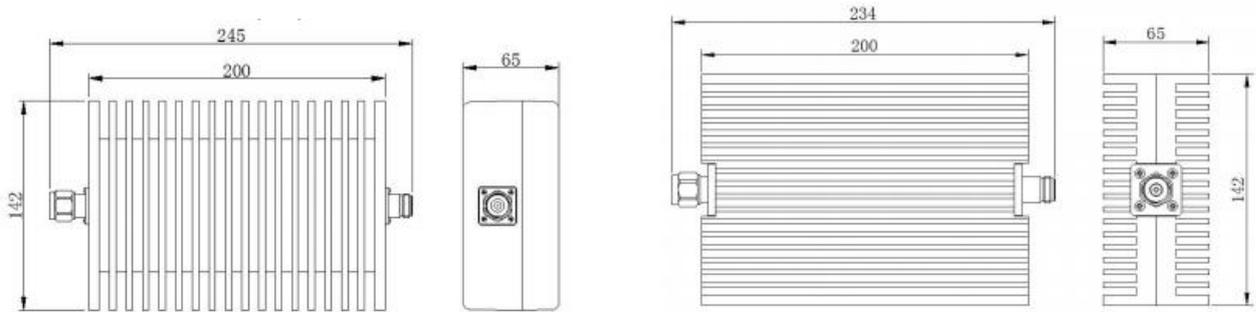
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-6GHz, 200W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 200W
- ◇ **Peak Power:** 10KW (5μs Pulse, 2% Duty Cycle) for 200x142x65mm  
1KW (5μs Pulse, 2% Duty Cycle) for different outline 200x142x65mm
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55°C to +125°C
- ◇ **Dimension:** 200x142x65mm, 200x142x65mm
- ◇ **Net Weight:** 2.4kg, 2.4kg
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)	Sizes (mm)
		3	6	10	20	30	40	50		
CA200-XX-N-3-A	DC-3	±0.4	±0.4	±0.6	±0.8	±0.8	±1.0	±1.2	1.20	200x142x65
CA200-XX-N-6-A	DC-6	±0.8	±0.8	±1.0	±1.0	±1.2	±1.5	±1.5	1.35	
CA200-XX-N-10-B	DC-10	±0.8	±0.8	±1.0	±1.2	±1.5	±2.0	/	1.40	200x142x65

\* xx refer to attenuator value in dB.

### Notes:

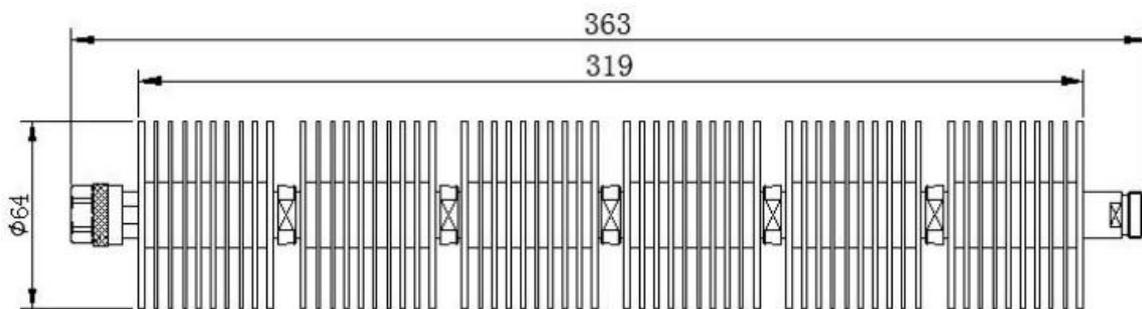
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-18GHz, 200W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 200W
- ◇ **Peak Power:** 1KW (5μs Pulse, 10% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ64x363mm
- ◇ **Net Weight:** 1.1kg
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)					VSWR (Max.)
		10	20	30	40	50	
CA200-XX-N-12.4-C	DC-12.4	-2.5/+1.5	-2.5/+1.5	-1.5/+2.0	-1.0/+2.5	-1.5/+3.0	1.40
CA200-XX-N-18-C	DC-18	-2.5/+4.0	-2.5/+5.0	-2.0/+3.5	-2.0/+3.5	-2.0/+3.5	1.50

\* xx refer to attenuator value in dB.

### Notes:

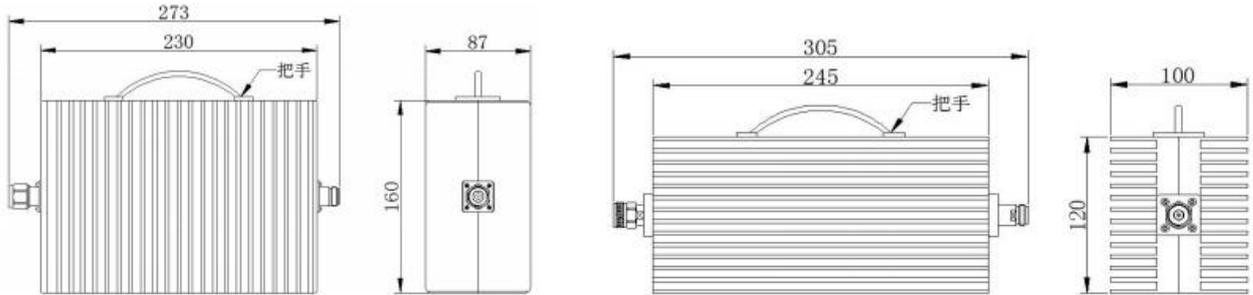
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-6GHz, 300W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 300W
- ◇ **Peak Power:** 10KW (5μs Pulse, 3% Duty Cycle) for 230x160x87mm  
1KW (5μs Pulse, 3% Duty Cycle) for 245x120x100mm
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55°C to +125°C
- ◇ **Dimension:** 230x160x87mm, 245x120x100mm
- ◇ **Net Weight:** 3.4kg, 3.5kg
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)	Sizes (mm)
		3	6	10	20	30	40	50		
CA300-XX-N-3-A	DC-3	±0.8	±0.8	±1.0	±1.0	±1.2	±1.2	±1.5	1.30	230x160x87
CA300-XX-N-6-A	DC-6	±0.8	±1.0	±1.2	±1.2	±1.5	±1.5	±2.0	1.40	
CA300-XX-N-10-B	DC-10	±1.0	±1.0	±1.2	±1.5	±1.5	±2.0	/	1.45	245x120x100

\* xx refer to attenuator value in dB.

### Notes:

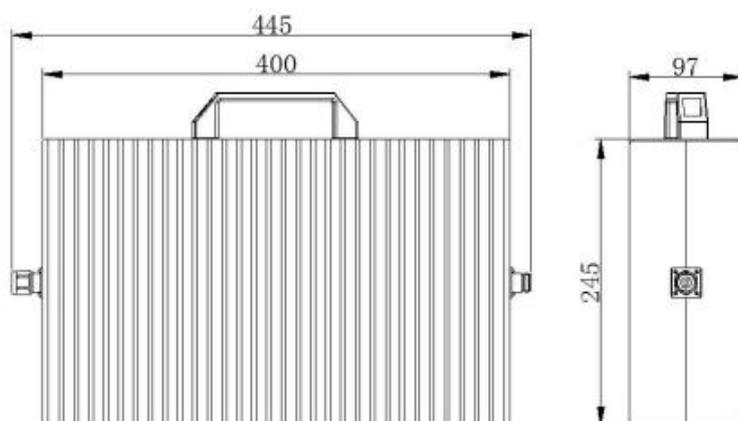
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-6GHz, 500W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 500W
- ◇ **Peak Power:** 10KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** 400x245x97mm
- ◇ **Net Weight:** 10kg
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)					VSWR (Max.)
		10	20	30	40	50	
CA500-XX-N-3-A	DC-3	±1.0	±1.2	±1.5	±1.5	±2.0	1.30
CA500-XX-N-6-A	DC-6	±2.0	±2.0	±2.0	±2.0	±2.5	1.45

\* xx refer to attenuator value in dB.

### Notes:

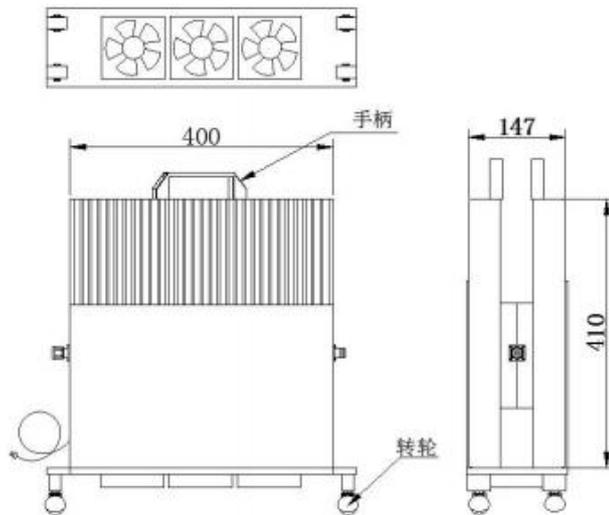
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## N, DC-4GHz, 1000W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 1000W
- ◇ **Peak Power:** 10KW (5μs Pulse, 10% Duty Cycle)
- ◇ **Connector Type:** N (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** 400x410x147mm
- ◇ **Heat Dissipation Mode:** Fan Cooling
- ◇ **Power Supply Mode:** AC-220V±10%, 50Hz
- ◇ **Net Weight:** 10kg
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)					VSWR (Max.)
		10	20	30	40	50	
CA1000-XX-N-3-A	DC-3	±1.5	±1.5	±2.0	±2.0	±2.0	1.35
CA1000-XX-N-4-A	DC-4	±2.0	±2.0	±2.0	±2.0	±2.5	1.45

\* xx refer to attenuator value in dB.

### Notes:

1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.