

SMA-Type Coaxial Fixed Attenuators

Electrical Features

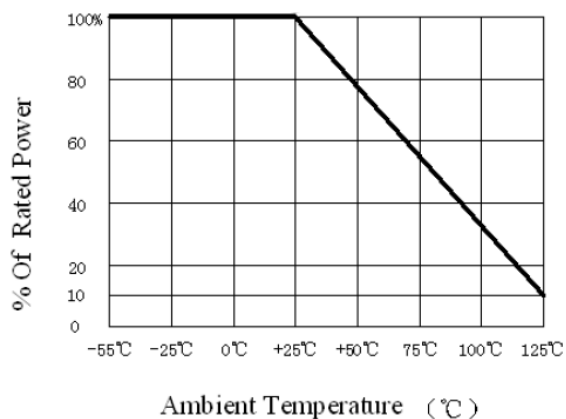
- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 2W -50W
- ✧ **Frequency Range :** DC-26.5GHz
- ✧ **Attenuation Value:** 1-30dB
- ✧ **Operating Temperature:** -55°C to +125°C
- ✧ **Connector Type:** SMA (Male/Female)



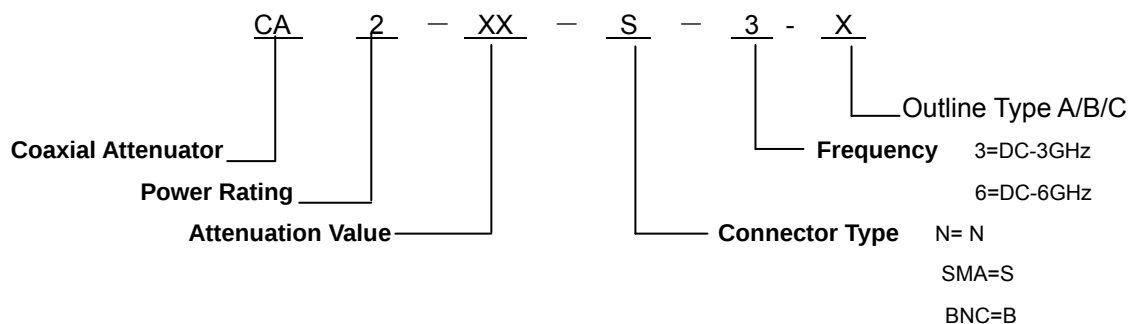
Mechanical Features

- ✧ **Housing:** Aluminum
- ✧ **Connectors:** Brass Nickel Plated
- ✧ **Male Pin:** Brass Gold Plated
- ✧ **Female Pin:** Beryllium Copper Gold Plated
- ✧ **Mechanical Tolerance:** $\pm 2\%$
- ✧ **Packaging:** Box
- ✧ **RoHS Compliant**

Power Derating



HOW TO ORDER



General Specifications for SMA Connector 2W-50W DC-26.5GHz

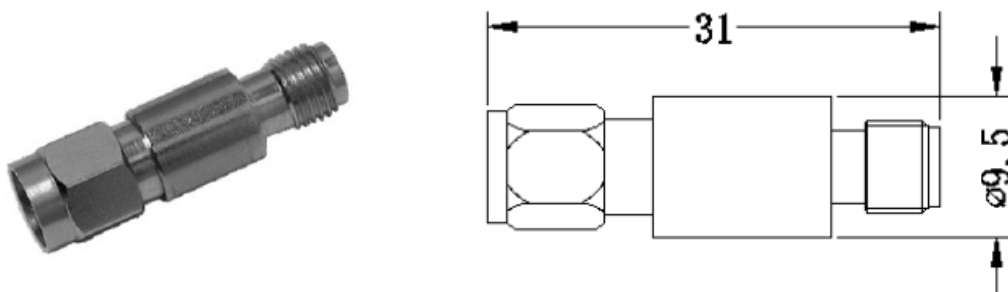
Part Number	Rated Power(W)	Frequency Rang (GHz)	Attenuation Value (dB)	VSWR (Max.)	Dimensions (mm)
CA2-XX-S-6-A	2	DC-6	1-9,10, 20, 30	1.20	Φ 9.5x31
CA2-XX-S-12.4-A		DC-12.4	1-9,10, 20, 30	1.25	
CA2-XX-S-18-A		DC-18	1-9,10, 20, 30	1.20	
CA2-XX-S-6-B	2	DC-6	1-9,10, 20, 30	1.25	Φ 7.6x21.7
CA2-XX-S-12.4-B		DC-12.4	1-9,10, 20, 30	1.15	
CA2-XX-S-18-B		DC-18	1-9,10, 20, 30	1.25	
CA2-XX-S-26.5-B		DC-26.5	1-9,10, 20, 30	1.30	
CA5-XX-S-6	5	DC-6	1-9,10, 20, 30	1.20	Φ 15.5x32
CA5-XX-S-12.4		DC-12.4	1-9,10, 20, 30	1.25	
CA5-XX-S-18		DC-18	1-9,10, 20, 30	1.20	
CA10-XX-S-6	10	DC-6	1-9,10, 20, 30	1.25	Φ 17x50
CA10-XX-S-12.4		DC-12.4	1-9,10, 20, 30	1.30	
CA10-XX-S-18		DC-18	1-9,10, 20, 30	1.20	
CA25-XX-S-6	25	DC-6	1-9,10, 20, 30	1.25	Φ 45x50.5
CA25-XX-S-12.4		DC-12.4	1-9,10, 20, 30	1.20	
CA25-XX-S-18		DC-18	1-9,10, 20, 30	1.25	
CA50-XX-S-3	50	DC-3	1-9,10, 20, 30	1.20	Φ 64x46
CA50-XX-S-8		DC-6	1-9,10, 20, 30	1.25	
CA50-XX-S-12.4		DC-12.4	1-9,10, 20, 30	1.30	
CA50-XX-S-18		DC-18	1-9,10, 20, 30	1.40	

SMA Series, DC-18GHz, 2W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 2W
- ✧ **Connector Type:** SMA(Male/Female)
- ✧ **Operating Temperature:** -55°C to +125°C
- ✧ **Dimension:** $\Phi 9.5 \times 31 \text{mm}$
- ✧ **Net Weight:** 9g
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		1-9	10	20	30	
CA2-XX-S-6-A	DC-6	± 0.4	± 0.5	± 0.6	± 0.8	1.15
CA2-XX-S-12.4-A	DC-12.4	± 0.7	± 0.7	± 0.8	± 0.8	1.25
CA2-XX-S-18-A	DC-18	± 0.7	± 0.7	± 0.8	± 1.0	1.30

*xx refer to attenuator value in dB.

Notes:

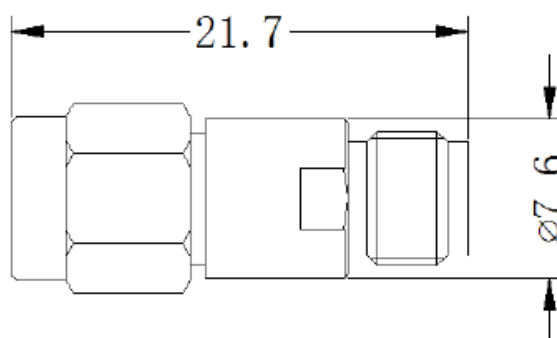
1. The coaxial fixed attenuator must pay attention to the direction of input power.
2. Input power shall meet the requirements of the power derating.
3. General peak power 10 times rated power (5 μ s pulse width, 1% duty cycle).

SMA Series, DC-22GHz, 2W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 2W
- ✧ **Connector Type:** SMA(Male/Female)
- ✧ **Operating Temperature:** -55°C to +125°C
- ✧ **Dimension:** $\Phi 7.6 \times 21.7 \text{mm}$
- ✧ **Net Weight:** 5g
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		1-9	10	20	30	
CA2-XX-S-6-B	DC-6	± 0.3	± 0.3	± 0.4	/	1.15
CA2-XX-S-12.4-B	DC-12.4	± 0.4	± 0.4	± 0.5	/	1.25
CA2-XX-S-18-B	DC-18	± 0.5	± 0.5	± 0.6	/	1.25
CA2-XX-S-26.5-B	DC-26.5	± 1.0	± 1.0	± 1.0	/	1.30

*xx refer to attenuator value in dB.

Notes:

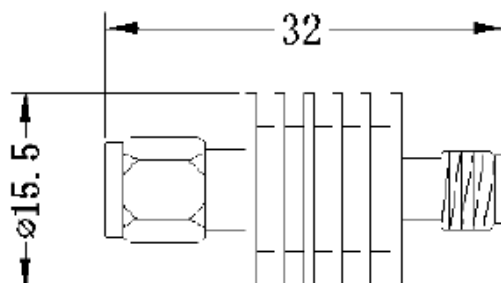
1. The coaxial fixed attenuator must pay attention to the direction of input power.
2. Input power shall meet the requirements of the power derating.
3. General peak power 10 times rated power (5 μ s pulse width, 1% duty cycle).

SMA Series, DC-18GHz, 5W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 5W
- ✧ **Connector Type:** SMA(Male/Female)
- ✧ **Operating Temperature:** -55°C to +125°C
- ✧ **Dimension:** $\Phi 15.5 \times 32 \text{mm}$
- ✧ **Net Weight:** 8.7g
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		1-9	10	20	30	
CA5-XX-S-6	DC-6	± 0.4	± 0.5	± 0.6	± 0.8	1.15
CA5-XX-S-12.4	DC-12.4	± 0.7	± 0.7	± 0.8	± 0.8	1.25
CA5-XX-S-18	DC-18	± 0.7	± 0.7	± 0.8	± 1.0	1.30

*xx refer to attenuator value in dB.

Notes:

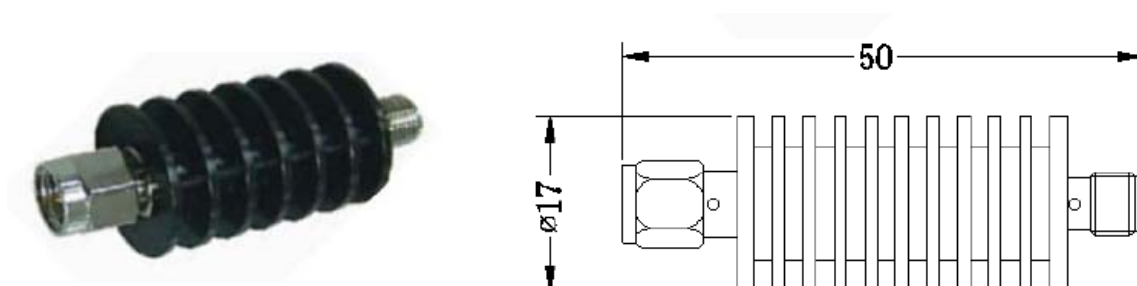
1. The coaxial fixed attenuator must pay attention to the direction of input power.
2. Input power shall meet the requirements of the power derating.
3. General peak power 10 times rated power (5 μ s pulse width, 1% duty cycle).

SMA Series, DC-18GHz, 10W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 10W
- ✧ **Connector Type:** SMA(Male/Female)
- ✧ **Operating Temperature:** -55°C to +125°C
- ✧ **Dimension:** $\Phi 17 \times 50 \text{mm}$
- ✧ **Net Weight:** 19g
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		1-9	10	20	30	
CA10-XX-S-6	DC-6	± 0.4	± 0.5	± 0.6	± 0.8	1.20
CA10-XX-S-12.4	DC-12.4	± 0.7	± 0.7	± 0.8	± 1.0	1.25
CA10-XX-S-18	DC-18	± 0.7	± 0.7	± 0.8	± 1.0	1.30

*xx refer to attenuator value in dB.

Notes:

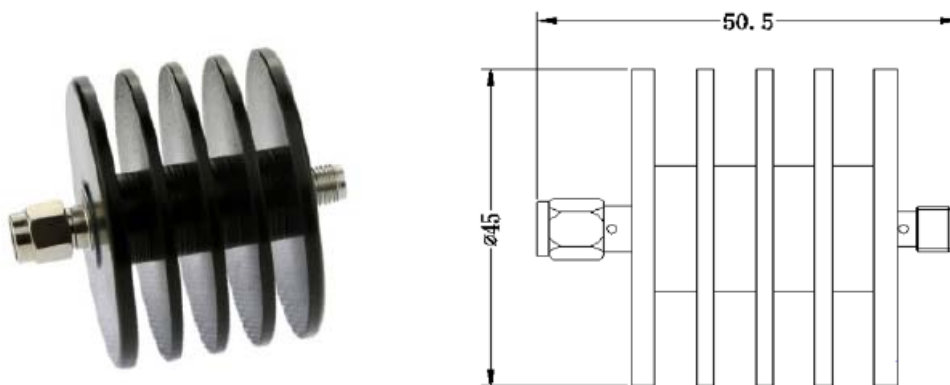
1. The coaxial fixed attenuator must pay attention to the direction of input power.
2. Input power shall meet the requirements of the power derating.
3. General peak power 10 times rated power (5 μ s pulse width, 1% duty cycle).

SMA Series, DC-18GHz, 25W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 25W
- ✧ **Connector Type:** SMA(Male/Female)
- ✧ **Operating Temperature:** -55°C to +125°C
- ✧ **Dimension:** $\Phi 45 \times 50.5 \text{mm}$
- ✧ **Net Weight:** 65.5g
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		1-9	10	20	30	
CA25-XX-S-6	DC-6	± 0.4	± 0.5	± 0.6	± 0.8	1.20
CA25-XX-S-12.4	DC-12.4	± 0.7	± 0.7	± 0.8	± 1.0	1.25
CA25-XX-S-18	DC-18	± 0.7	± 0.7	± 0.8	± 1.0	1.30

*xx refer to attenuator value in dB.

Notes:

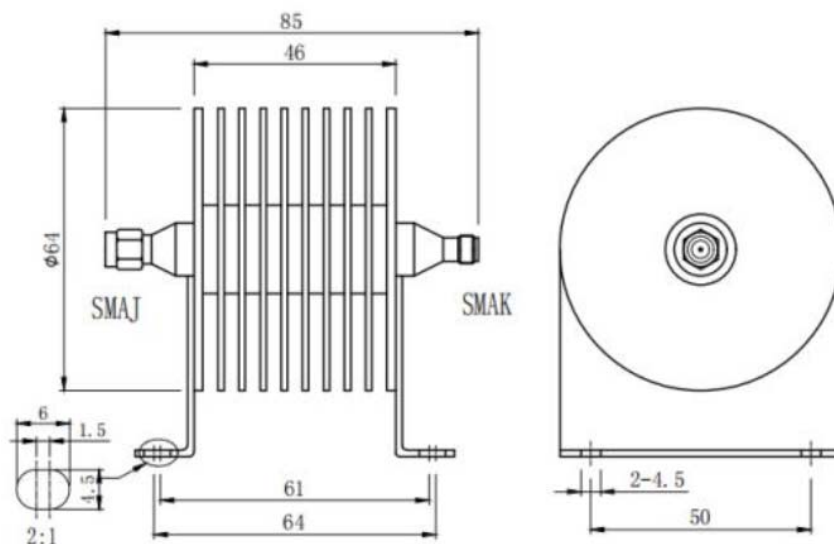
1. The coaxial fixed attenuator must pay attention to the direction of input power.
2. Input power shall meet the requirements of the power derating.
3. General peak power 10 times rated power (5 μ s pulse width, 1% duty cycle).

SMA Series, DC-18GHz, 50W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 50W
- ✧ **Connector Type:** SMA(Male/Female)
- ✧ **Operating Temperature:** -55°C to +125°C
- ✧ **Dimension:** $\Phi 64 \times 46$ mm
- ✧ **Net Weight:** 250g
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		1-9	10	20	30	
CA50-XX-S-3	DC-3	±0.4	±0.5	±0.6	±0.8	1.20
CA50-XX-S-8	DC-8	±0.8	±0.6	±0.8	±0.8	1.25
CA50-XX-S-12.4	DC-12.4	±0.8	±0.8	±0.8	±1.0	1.30
CA50-XX-S-18	DC-18	±1.2	±1.2	±1.2	±1.2	1.40

* xx refer to attenuator value in dB.

Notes:

1. The coaxial fixed attenuator must pay attention to the direction of input power.
2. Input power shall meet the requirements of the power derating.
3. General peak power 10 times rated power (5 μ s pulse width, 1% duty cycle).