

SMA Coaxial Fixed Attenuators

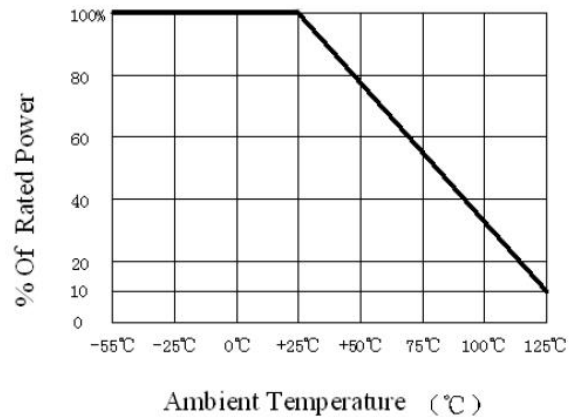
Electrical Features

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 2W-100W
- ◇ **Frequency Range:** DC-26.5GHz
- ◇ **Attenuation Value:** 0-50dB
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Connector Type:** SMA (Male/Female)
- ◇ **RoHS Compliant**

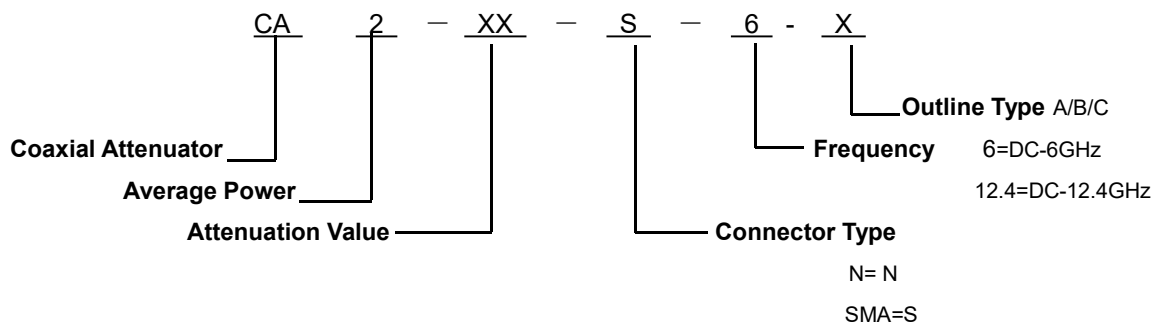
Mechanical Features

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

Power Derating



HOW TO ORDER



General Specifications for SMA Connector 2W-100W DC-26.5GHz

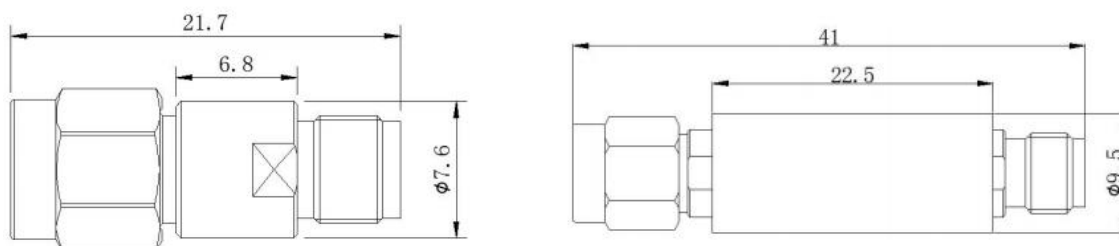
Part Number	Average Power (W)	Frequency Range (GHz)	Attenuation Value (dB)	VSWR (Max.)	Peak Power (KW)	Outline Dimensions (mm)
CA2-XX-S-6-A	2	DC-6	0-9, 10-19, 20, 30	1.20	0.1	Φ7.6x21.7
CA2-XX-S-12.4-A	2	DC-12.4	0-9, 10-19, 20, 30	1.25	0.1	Φ7.6x21.7
CA2-XX-S-18-A	2	DC-18	0-9, 10-19, 20, 30	1.35	0.1	Φ7.6x21.7
CA2-XX-S-26.5-A	2	DC-26.5	0-9, 10-19, 20, 30	1.50	0.1	Φ7.6x21.7
CA2-XX-S-6-B	2	DC-6	40, 50	1.25	0.1	Φ9.5x41
CA2-XX-S-12.4-B	2	DC-12.4	40, 50	1.30	0.1	Φ9.5x41
CA2-XX-S-18-B	2	DC-18	40, 50	1.35	0.1	Φ9.5x41
CA5-XX-S-6-A	5	DC-6	1-9, 10, 20, 30	1.20	0.5	Φ15.5x31.3
CA5-XX-S-12.4-A	5	DC-12.4	1-9, 10, 20, 30	1.25	0.5	Φ15.5x31.3
CA5-XX-S-18-A	5	DC-18	1-9, 10, 20, 30	1.30	0.5	Φ15.5x31.3
CA5-XX-S-6-B	5	DC-6	40, 50	1.25	0.5	Φ15.5x41.3
CA5-XX-S-12.4-B	5	DC-12.4	40, 50	1.30	0.5	Φ15.5x41.3
CA5-XX-S-18-B	5	DC-18	40, 50	1.35	0.5	Φ15.5x41.3
CA10-XX-S-6-A	10	DC-6	3, 6, 10, 20, 30, 40	1.20	0.5	Φ17x50
CA10-XX-S-12.4-A	10	DC-12.4	3, 6, 10, 20, 30, 40	1.25	0.5	Φ17x50
CA10-XX-S-18-A	10	DC-18	3, 6, 10, 20, 30, 40	1.30	0.5	Φ17x50
CA30-XX-S-6-A	30	DC-6	3, 6, 10, 20, 30, 40, 50	1.20	1	Φ45x84
CA30-XX-S-12.4-A	30	DC-12.4	3, 6, 10, 20, 30, 40, 50	1.30	1	Φ45x84
CA30-XX-S-18-A	30	DC-18	3, 6, 10, 20, 30, 40, 50	1.35	1	Φ45x84
CA50-XX-S-3-A	50	DC-3	3, 6, 10, 20, 30, 40, 50	1.20	1	80x60x60
CA50-XX-S-6-A	50	DC-6	3, 6, 10, 20, 30, 40, 50	1.30	1	80x60x60
CA50-XX-S-6-26.5-B	50	DC-26.5	3, 6, 10, 20, 30, 40, 50	1.35	1	Φ63x67
CA100-XX-S-3-A	100	DC-3	3, 6, 10, 20, 30, 40, 50	1.20	1	120x100x60
CA100-XX-S-6-A	100	DC-6	3, 6, 10, 20, 30, 40, 50	1.30	1	120x100x60
CA100-XX-S-26.5-B	100	DC-26.5	3, 6, 10, 20, 30, 40, 50	1.40	1	Φ63x117

SMA, DC-26.5GHz, 2W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 2W
- ◇ **Peak Power:** 0.1KW (1μs Pulse Width, 1% Duty Cycle)
- ◇ **Connector Type:** SMA (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ7.6x21.7mm , Φ9.5x41mm
- ◇ **Net Weight:** 5g, 15g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)						VSWR (Max.)	Sizes (mm)
		0-9	10-19	20	30	40	50		
CA2-XX-S-6-A	DC-6	±0.4	±0.4	±0.4	±0.5	/	/	1.20	Φ7.6x21.7
CA2-XX-S-12.4-A	DC-12.4	±0.5	±0.5	±0.5	±0.6	/	/	1.25	
CA2-XX-S-18-A	DC-18	±0.6	±0.6	±0.6	±0.8	/	/	1.35	
CA2-XX-S-26.5-A	DC-26.5	±0.8	±0.8	±0.8	±1.0	/	/	1.50	
CA2-XX-S-6-B	DC-6	/	/	/	/	±0.8	±0.8	1.25	Φ9.5x41
CA2-XX-S-12.4-B	DC-12.4	/	/	/	/	±1.0	±1.0	1.30	
CA2-XX-S-18-B	DC-18	/	/	/	/	±1.2	±1.2	1.35	

* xx refer to attenuator value in dB.

Notes:

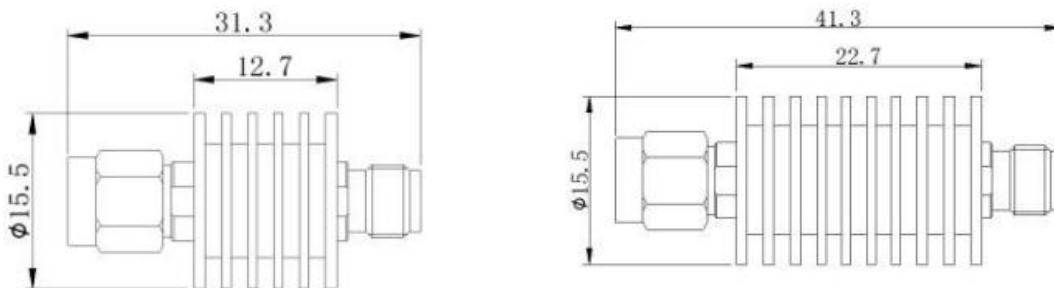
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

SMA, DC-18GHz, 5W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 5W
- ◇ **Peak Power:** 0.5KW (5μs Pulse Width, 1% Duty Cycle)
- ◇ **Connector Type:** SMA (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ15.5x31.3mm, Φ15.5x41.3mm
- ◇ **Net Weight:** 8.7g, 12.5g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)						VSWR (Max.)	Sizes (mm)
		1-9	10	20	30	40	50		
CA5-XX-S-6-A	DC-6	±0.6	±0.6	±0.6	±0.6	±0.8	/	1.20	Φ15.5x31.3
CA5-XX-S-12.4-A	DC-12.4	±0.6	±0.6	±0.6	±0.6	±0.6	±0.6	1.25	
CA5-XX-S-18-A	DC-18	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	1.30	
CA5-XX-S-6-B	DC-6	/	/	/	/	±0.8	±0.8	1.25	Φ15.5x41.3
CA5-XX-S-12.4-B	DC-12.4	/	/	/	/	±1.0	±1.0	1.30	
CA5-XX-S-18-B	DC-18	/	/	/	/	±1.2	±1.2	1.35	

* xx refer to attenuator value in dB.

Notes:

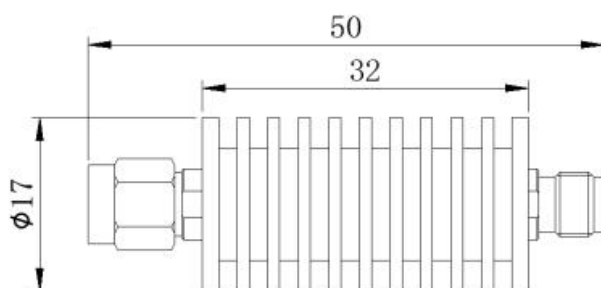
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

SMA, DC-18GHz, 10W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 10W
- ◇ **Peak Power:** 0.5KW (5μs Pulse Width, 2% Duty Cycle)
- ◇ **Connector Type:** SMA (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ17x50mm
- ◇ **Net Weight:** 19.5g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



art Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)						VSWR (Max.)
		3	6	10	20	30	40	
CA10-XX-S-6-A	DC-6	±0.5	±0.5	±0.6	±0.6	±0.8	±0.8	1.20
CA10-XX-S-12.4-A	DC-12.4	±0.6	±0.6	±0.8	±0.8	±0.8	±0.8	1.25
CA10-XX-S-18-A	DC-18	±0.8	±0.8	±0.8	±0.8	±1.0	±1.0	1.30

* xx refer to attenuator value in dB.

Notes:

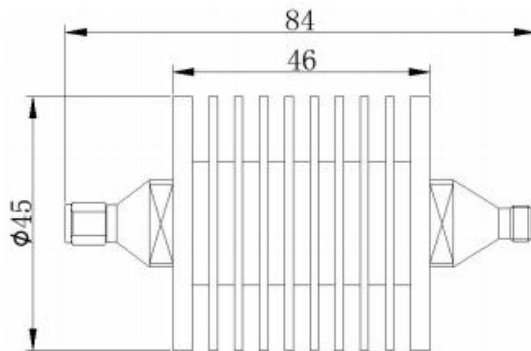
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

SMA, DC-18GHz, 30W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 30W
- ◇ **Peak Power:** 1KW (5μs Pulse Width, 3% Duty Cycle)
- ◇ **Connector Type:** SMA (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ45x84mm
- ◇ **Net Weight:** 150g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range (GHz)	Attenuation Value & Accuracy (dB)							VSWR (Max.)
		3	6	10	20	30	40	50	
CA30-XX-S-6--A	DC-6	±0.8	±0.8	±0.8	±0.8	±1.0	±1.0	±1.0	1.20
CA30-XX-S-12.4-A	DC-12.4	±1.0	±1.0	±1.0	±1.0	±1.2	±1.2	±1.2	1.25
CA30-XX-S-18-A	DC-18	-1.0/+1.5	-1.0/+1.5	-1.0/+1.5	-1.0/+1.5	-1.0/+2.0	-1.0/+2.0		1.30

* xx refer to attenuator value in dB.

Notes:

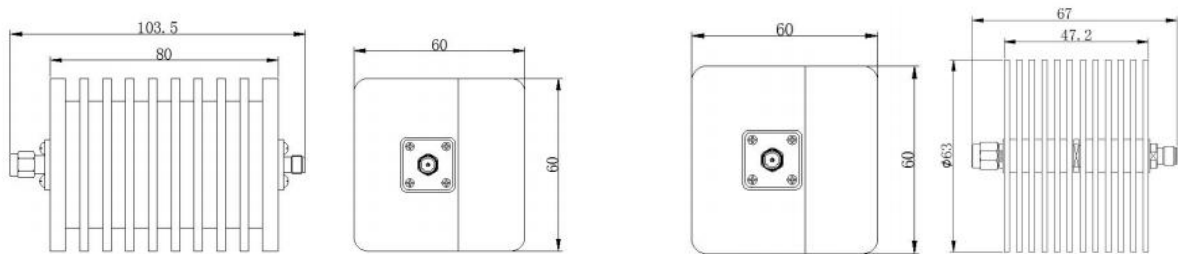
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

SMA, DC-26.5GHz, 50W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 50W
- ◇ **Peak Power:** 1KW (5μs Pulse Width, 5% Duty Cycle)
- ◇ **Connector Type:** SMA (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** 80x60x60mm, Φ63x67mm
- ◇ **Net Weight:** 390g, 180g
- ◇ **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-S-3-A	DC-3	±0.4	±0.4	±0.5	±0.6	±0.8	±1.0	±1.0	1.20	80x60x60	
CA50-XX-S-6-A	DC-6	±0.8	±0.8	±1.0	±1.0	±1.0	±1.0	±1.0	1.30		
CA50-XX-S-26.5-B	DC-26.5	-1.0/+1.5		-1.0/+2.0		-1.5/+2.0		-1.5/+2.5		1.35	Φ63x67

Notes:

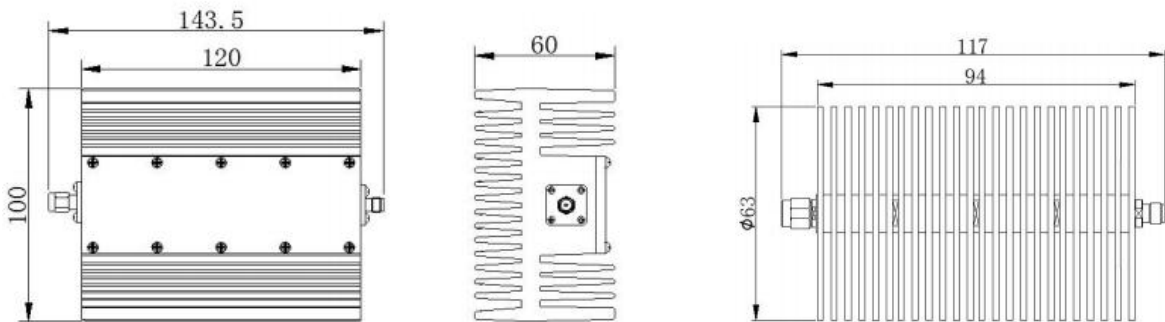
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

SMA, DC-26.5GHz, 100W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 100W
- ◇ **Peak Power:** 1KW (5μs Pulse Width, 10% Duty Cycle)
- ◇ **Connector Type:** SMA (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** 120x100x60mm, Φ63x117m
- ◇ **Net Weight:** 1.25kg, 386g
- ◇ **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		
CA100-XX-S-3-A	DC-3	±0.4	±0.4	±0.6	±0.8	±0.8	±1.0	±1.2	1.20	120x100x60
CA100-XX-S-6-A	DC-6	±0.8	±0.8	±1.0	±1.0	±1.0	±1.5	±1.5	1.30	
CA100-XX-S-26.5-B	DC-26.5	-1.5/+3.0			-1.0/+2.5		-1.0/+3.0		1.40	Φ63x117

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.