

## 2.92mm Coaxial Fixed Attenuators

### Electrical Features

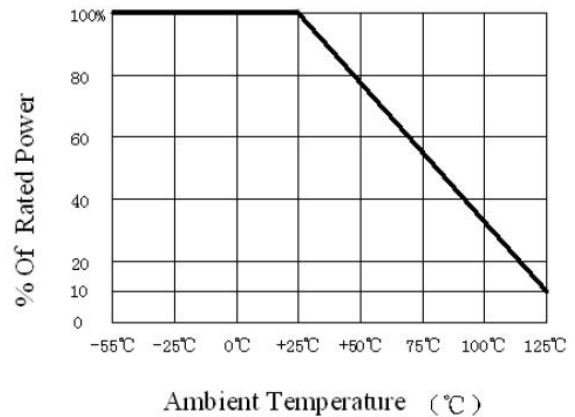
- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 2W-50W
- ◇ **Frequency Range:** DC-42GHz
- ◇ **Attenuation Value:** 1-40dB
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Connector Type:** 2.92mm (Male/Female)
- ◇ **RoHS Compliant**



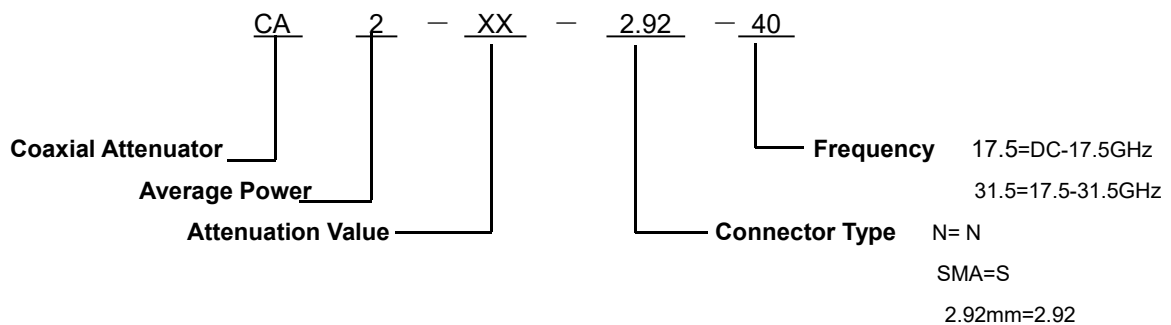
### Mechanical Features

- ◇ **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 2.92 mm Connector 2W-50W DC-42GHz

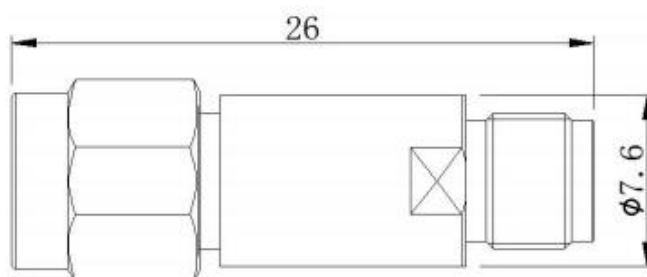
Part Number	Average Power (W)	Frequency Range (GHz)	Attenuation Value (dB)	VSWR (Max.)	Peak Power (KW)	Outline Dimensions (mm)
CA2-XX-2.92-17.5	2	DC-17.5	1-9, 10-19, 20-30, 40	1.20	0.1	Φ7.6x26
CA2-XX-2.92-31.5	2	17.5-31.5	1-9, 10-19, 20-30, 40	1.25	0.1	Φ7.6x26
CA2-XX-2.92-42	2	31.5-42	1-9, 10-19, 20-30, 40	1.50	0.1	Φ7.6x26
CA5-XX-2.92-26.5	5	DC-26.5	1-9, 10-19, 20-30, 40	1.30	0.1	Φ26x41
CA5-XX-2.92-32	5	26.5-32	1-9, 10-19, 20-30, 40	1.35	0.1	Φ26x41
CA5-XX-2.92-42	5	32-42	1-9, 10-19, 20-30, 40	1.40	0.1	Φ26x41
CA10-XX-2.92-26.5	10	DC-26.5	10, 20, 30, 40	1.30	0.2	Φ38x40.6
CA10-XX-2.92-32	10	26.5-32	10, 20, 30, 40	1.35	0.2	Φ38x40.6
CA10-XX-2.92-42	10	32-42	10, 20, 30, 40	1.40	0.2	Φ38x40.6
CA20-XX-2.92-26.5	20	DC-26.5	10, 20, 30, 40	1.30	0.2	Φ38x66
CA20-XX-2.92-32	20	26.5-32	10, 20, 30, 40	1.35	0.2	Φ38x66
CA20-XX-2.92-42	20	32-42	10, 20, 30, 40	1.40	0.2	Φ38x66
CA30-XX-2.92-26.5	30	DC-26.5	30, 40	1.30	0.2	Φ45x90.4
CA30-XX-2.92-32	30	26.5-32	30, 40	1.35	0.2	Φ45x90.4
CA30-XX-2.92-42	30	32-42	30, 40	1.45	0.2	Φ45x90.4
CA50-XX-2.92-42	50	DC-42	10, 20, 30, 40	1.60	0.2	Φ45x140.2

## 2.92mm, DC-42GHz, 2W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 2W
- ◇ **Peak Power:** 0.1KW (1μs Pulse, 1% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ7.6x26mm
- ◇ **Net Weight:** 7g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		1-9	10-19	20-30	40	
CA2-XX-2.92-17.5	DC-17.5	±0.8	±0.8	±0.8	±1.5	1.20
CA2-XX-2.92-31.5	17.5-31.5	±0.8	±0.8	±0.8	±1.5	1.25
CA2-XX-2.92-42	31.5-42	±1.0	±1.0	±1.0	±1.5	1.50

\* xx refer to attenuator value in dB.

### Notes:

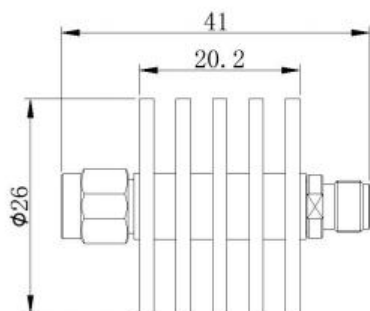
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## 2.92mm, DC-42GHz, 5W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 5W
- ◇ **Peak Power:** 0.1KW (1μs Pulse, 1% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ26x41mm
- ◇ **Net Weight:** 35g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		1-9	10-19	20-30	40	
CA5-XX-2.92-26.5	DC-26.5	±0.8	±0.8	-0.8/+1.0	±1.0	1.30
CA5-XX-2.92-32	26.5-32	±0.8	±0.8	±1.0	±1.5	1.35
CA5-XX-2.92-42	32-42	±1.0	±1.0	-1.0/+1.5	-1.0/+2.0	1.40

\* xx refer to attenuator value in dB.

### Notes:

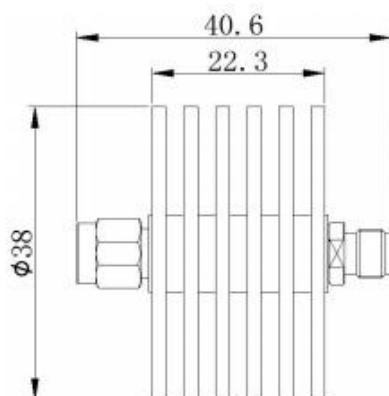
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## 2.92mm, DC-42GHz, 10W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 10W
- ◇ **Peak Power:** 0.2KW (1μs Pulse, 1% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ38x40.6mm
- ◇ **Net Weight:** 40g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		10	20	30	40	
CA10-XX-2.92-26.5	DC-26.5	±1.0	±1.0	±1.0	±1.0	1.30
CA10-XX-2.92-32	26.5-32	-1.0/+1.5	-1.0/+1.2	-1.0/+1.2	-1.0/+1.5	1.35
CA10-XX-2.92-42	32-42	-1.0/+2.0	-1.0/+1.5	-1.0/+1.5	-1.0/+2.0	1.40

\* xx refer to attenuator value in dB.

### Notes:

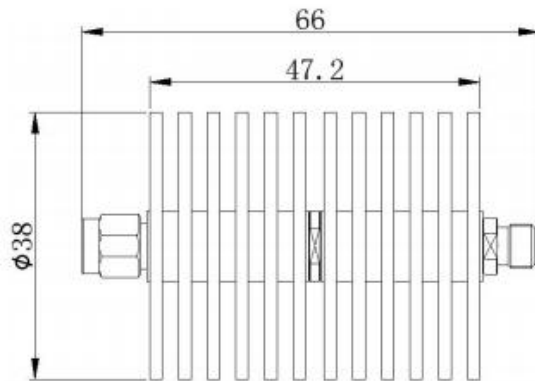
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## 2.92mm, DC-42GHz, 20W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 20W
- ◇ **Peak Power:** 0.2KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ38x66mm
- ◇ **Net Weight:** 80g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		10	20	30	40	
CA20-XX-2.92-26.5	DC-26.5	-1.0/+2.0	-1.0/+2.0	-1.0/+2.0	-1.0/+2.0	1.30
CA20-XX-2.92-32	26.5-32	-1.0/+2.0	-1.0/+2.0	-1.0/+2.0	-1.0/+2.0	1.35
CA20-XX-2.92-42	32-42	-1.0/+3.0	-1.0/+2.0	-1.0/+2.0	-1.0/+2.0	1.40

\* xx refer to attenuator value in dB.

### Notes:

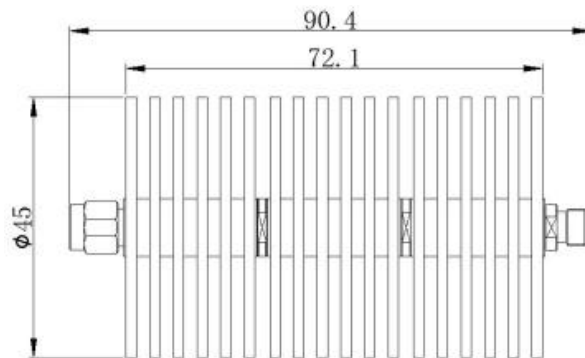
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## 2.92mm, DC-42GHz, 30W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 30W
- ◇ **Peak Power:** 0.2KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** 2.92 mm(Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ45x90.4mm
- ◇ **Net Weight:** 140g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)		VSWR (Max.)
		30	40	
CA30-XX-2.92-26.5	DC-26.5	-1.0/+2.0	-1.0/+2.0	1.30
CA30-XX-2.92-32	26.5-32	-1.0/+2.0	-1.0/+2.0	1.35
CA30-XX-2.92-42	32-42	-1.0/+2.0	-1.0/+2.0	1.45

\* xx refer to attenuator value in dB.

### Notes:

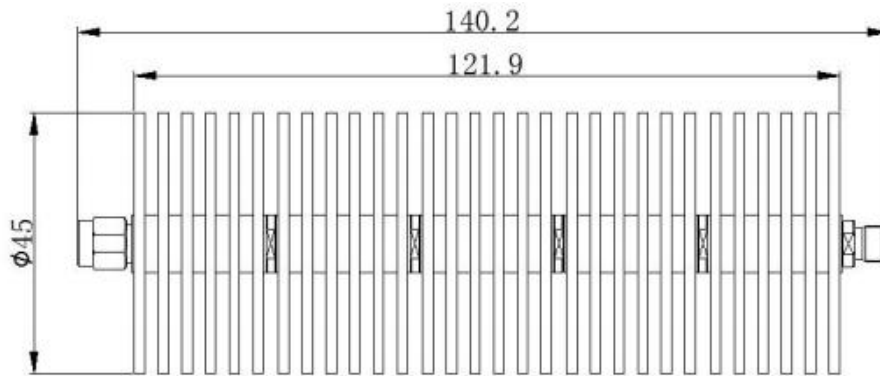
1. The coaxial fixed attenuator must pay attention to the power input direction.
2. Input power shall meet the requirements of the power derating.

## 2.92mm, DC-42GHz, 50W

### Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 50W
- ◇ **Peak Power:** 0.2KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male/Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ45x140.2mm
- ◇ **Net Weight:** 280g
- ◇ **RoHS Compliant**

### Outline Drawing (mm)



Part Number	Frequency Range(GHz)	Attenuation Value & Accuracy (dB)				VSWR (Max.)
		10	20	30	40	
CA50-XX-2.92-42	DC-42	-3.0/+5.0	-3.0/+5.0	±3.0	±3.0	1.60

### 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.