

2.92mm Coaxial Fixed Terminations

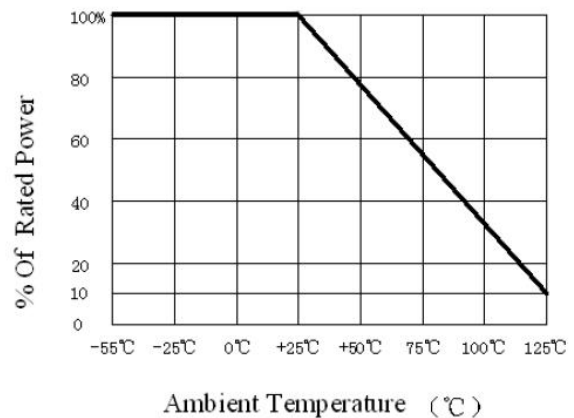
Electrical Features

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Average Power:** 1W-50W
- ◇ **Frequency Range:** DC-42GHz
- ◇ **Operating Temperature:** -55°C to +125°C
- ◇ **Connector Type:** 2.92mm (Male or Female)
- ◇ **RoHS Compliant**

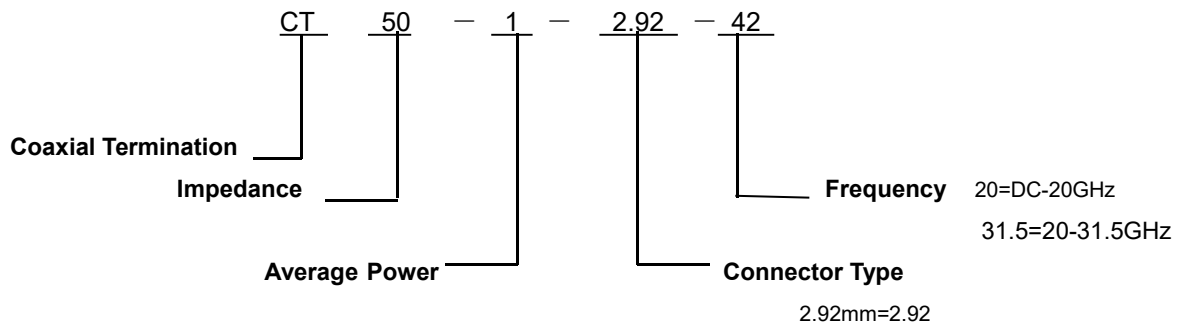
Mechanical Features

- ◇ **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 1W-50W DC-42GHz

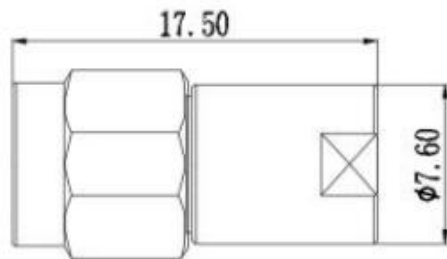
Part Number	Average Power (W)	Frequency Range (GHz)	VSWR (Max.)	Peak Power (KW)	Outline Dimensions (mm)
CT50-1-2.92-20	1	DC-20	1.25	0.1	Φ7.6x17.5 (M) Φ7.6x19 (F)
CT50-1-2.92-31.5	1	20-31.5	1.35	0.1	
CT50-1-2.92-42	1	31.5-42	1.40	0.1	
CT50-2-2.92-20	2	DC-20	1.25	0.1	Φ7.6x17.5 (M) Φ7.6x19 (F)
CT50-2-2.92-31.5	2	20-31.5	1.35	0.1	
CT50-2-2.92-42	2	31.5-42	1.40	0.1	
CT50-5-2.92-20	5	DC-20	1.25	0.2	Φ26x35.5 (M) Φ26x34.3 (F)
CT50-5-2.92-31.5	5	20-31.5	1.35	0.2	
CT50-5-2.92-42	5	31.5-42	1.40	0.2	
CT50-10-2.92-20	10	DC-20	1.25	0.2	Φ38x34.2(M) Φ38x33 (F)
CT50-10-2.92-31.5	10	20-31.5	1.35	0.2	
CT50-10-2.92-42	10	31.5-42	1.40	0.2	
CT50-20-2.92-20	20	DC-20	1.25	0.2	Φ38x66 (M) Φ38x57.9 (F)
CT50-20-2.92-31.5	20	20-31.5	1.35	0.2	
CT50-20-2.92-42	20	31.5-42	1.40	0.2	
CT50-30-2.92-20	30	DC-20	1.25	0.2	Φ38x84 (M) Φ38x82.8 (F)
CT50-30-2.92-31.5	30	20-31.5	1.35	0.2	
CT50-30-2.92-42	30	31.5-42	1.40	0.2	
CT50-50-2.92-20	50	DC-20	1.25	0.2	Φ38x133.85 (M) Φ38x132.6 (F)
CT50-50-2.92-31.5	50	20-31.5	1.35	0.2	
CT50-50-2.92-42	50	31.5-42	1.60	0.2	

2.92mm, DC-42GHz, 1W

Electrical Specifications

- ◇ **Nominal Impedance:** 50Ω
- ◇ **Average Power:** 1W
- ◇ **Peak Power:** 0.1KW (1μs Pulse, 1% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male or Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ7.6x17.5mm (Male), Φ7.6x19mm (Female)
- ◇ **Net Weight:** 5g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Peak Power (KW)	Dimension (mm)
CT50-1-2.92-20	DC-20	1.25	0.1KW (1μs Pulse, 1% Duty Cycle)	Φ7.6x17.5 (M) Φ7.6x19 (F)
CT50-1-2.92-31.5	20-31.5	1.30		
CT50-1-2.92-42	31.5-42	1.40		

Notes:

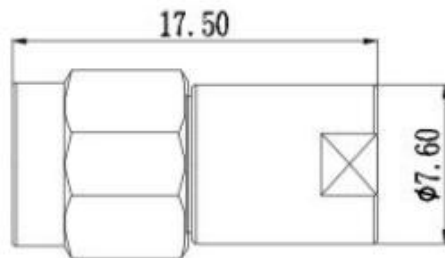
1. The input power should comply with the requirements of the power derating curve.

2.92mm, DC-42GHz, 2W

Electrical Specifications

- ◇ **Nominal Impedance:** 50Ω
- ◇ **Average Power:** 2W
- ◇ **Peak Power:** 0.1KW (1μs Pulse, 1% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male or Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ7.6x17.5mm (Male), Φ7.6x19mm (Female)
- ◇ **Net Weight:** 5g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Peak Power (KW)	Dimension (mm)
CT50-2-2.92-20	DC-20	1.25	0.1KW (1μs Pulse, 1% Duty Cycle)	Φ7.6x17.5 (M) Φ7.6x19 (F)
CT50-2-2.92-31.5	20-31.5	1.30		
CT50-2-2.92-42	31.5-42	1.40		

Notes:

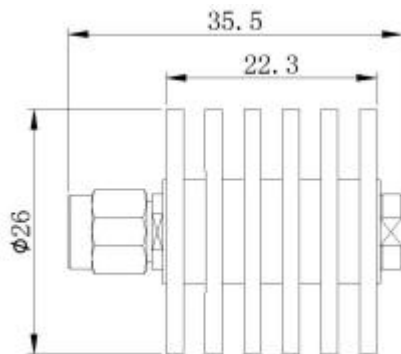
1. The input power should comply with the requirements of the power derating curve.

2.92mm, DC-42GHz, 5W

Electrical Specifications

- ◇ **Nominal Impedance:** 50Ω
- ◇ **Average Power:** 5W
- ◇ **Peak Power:** 0.2KW (1μs Pulse, 1% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male or Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ26x35.5mm (Male), Φ26x34.3mm (Female)
- ◇ **Net Weight:** 30g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Peak Power (KW)	Dimension (mm)
CT50-5-2.92-20	DC-20	1.25	0.2KW (1μs Pulse, 1% Duty Cycle)	Φ26x35.5 (M) Φ26x34.3 (F)
CT50-5-2.92-31.5	20-31.5	1.35		
CT50-5-2.92-42	31.5-42	1.40		

Notes:

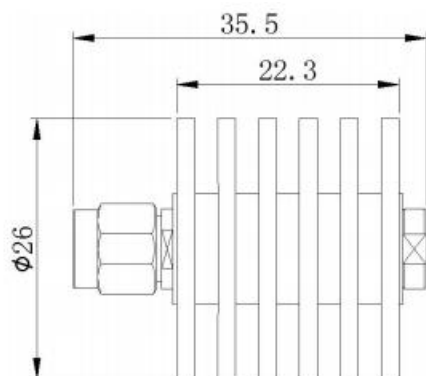
1. The input power should comply with the requirements of the power derating curve.

2.92mm, DC-42GHz, 10W

Electrical Specifications

- ✧ **Nominal Impedance:** 50Ω
- ✧ **Average Power:** 10W
- ✧ **Peak Power:** 0.2KW (1μs Pulse, 1% Duty Cycle)
- ✧ **Connector Type:** 2.92mm (Male or Female)
- ✧ **Operating Temperature:** -55℃ to +125℃
- ✧ **Dimension:** Φ38x34.2mm (Male), Φ38x33mm (Female)
- ✧ **Net Weight:** 50g
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Peak Power (KW)	Dimension (mm)
CT50-10-2.92-20	DC-20	1.25	0.2KW (1μS Pulse Width, 1% Duty Cycle)	Φ38×34.2 (M) Φ38×33 (F)
CT50-10-2.92-31.5	20-31.5	1.35		
CT50-10-2.92-42	31.5-42	1.40		

Notes:

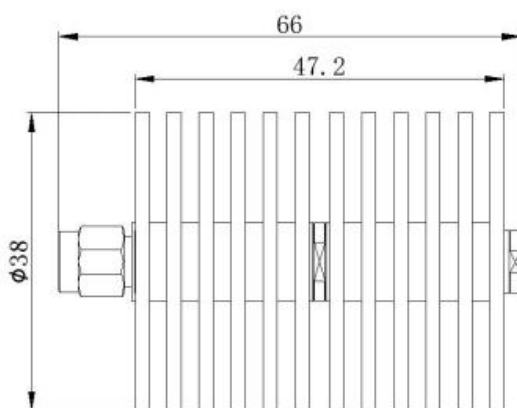
1. The input power should comply with the requirements of the power derating curve.

2.92mm, DC-42GHz, 20W

Electrical Specifications

- ◇ **Nominal Impedance:** 50Ω
- ◇ **Average Power:** 20W
- ◇ **Peak Power:** 0.2KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male or Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ38x66mm (Male), Φ38x57.9mm (Female)
- ◇ **Net Weight:** 80g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Peak Power (KW)	Dimension (mm)
CT50-20-2.92-20	DC-20	1.25	0.2KW (5μS Pulse Width, 5% Duty Cycle)	Φ38×66 (M) Φ38×57.9 (F)
CT50-20-2.92-31.5	20-31.5	1.35		
CT50-20-2.92-42	31.5-42	1.40		

Notes:

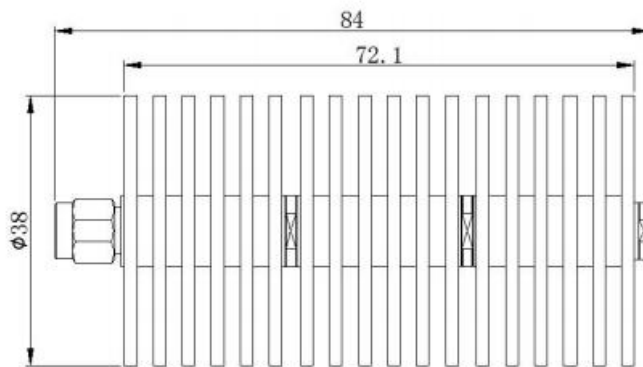
1. The input power should comply with the requirements of the power derating curve.

2.92mm, DC-42GHz, 30W

Electrical Specifications

- ◇ **Nominal Impedance:** 50Ω
- ◇ **Average Power:** 30W
- ◇ **Peak Power:** 0.2KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male or Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ38x84mm (Male), Φ38x82.8mm (Female)
- ◇ **Net Weight:** 135g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Peak Power (KW)	Dimension (mm)
CT50-30-2.92-20	DC-20	1.25	0.2KW (5μS Pulse Width, 5% Duty Cycle)	Φ38×84 (M) Φ38×82.8 (F)
CT50-30-2.92-31.5	20-31.5	1.35		
CT50-30-2.92-42	31.5-42	1.40		

Notes:

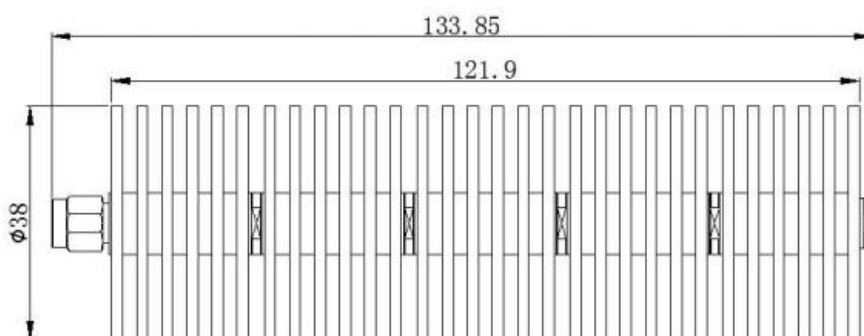
1. The input power should comply with the requirements of the power derating curve.

2.92mm, DC-42GHz, 50W

Electrical Specifications

- ◇ **Nominal Impedance:** 50Ω
- ◇ **Average Power:** 50W
- ◇ **Peak Power:** 0.2KW (5μs Pulse, 5% Duty Cycle)
- ◇ **Connector Type:** 2.92mm (Male or Female)
- ◇ **Operating Temperature:** -55℃ to +125℃
- ◇ **Dimension:** Φ38x133.85mm (Male), Φ38x132.6mm (Female)
- ◇ **Net Weight:** 165g
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Peak Power (KW)	Dimension (mm)
CT50-50-2.92-20	DC-20	1.25	0.2KW (5μS Pulse Width, 5% Duty Cycle)	Φ38×133.85 (M) Φ38×132.6 (F)
CT50-50-2.92-31.5	20-31.5	1.35		
CT50-50-2.92-42	31.5-42	1.60		

Notes:

1. The input power should comply with the requirements of the power derating curve.