

Coaxial Fixed Termination

Product Description

Coaxial fixed terminations absorb RF & microwave energy and are commonly used as dummy loads of antenna and transmitter. They are also used as match ports in many multiport microwave device such as circulators and directional couplers to make these ports which are not involved in the measurement be terminated in their characteristic impedance in order to ensure an accurate measurement.

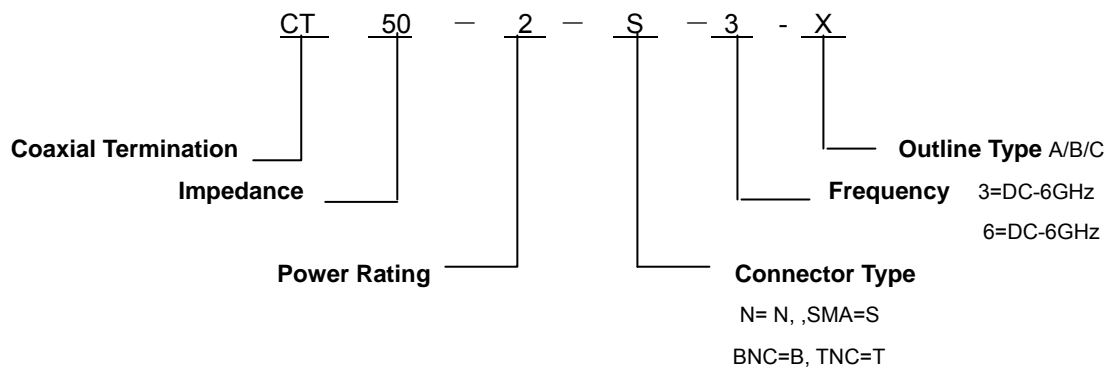
CT serial high power coaxial fixed termination's rated power 1W-1KW, wide frequency range DC-18GHz. The low VSWR, excellent capacity are main features.

Series Note

N Series: Rated Power 2-1000W, Frequency Range: DC-18GHz

SMA Series: Rated Power 1-10W, Frequency Range: DC-22GHz

HOW TO ORDER



Example

CT50-2-S-3 means coaxial termination with 50 Ohms, rated power 2W, frequency rang to 3GHz, connector type SMA (M) .

Product Reference Guide

Part Number	Rated Power(W)	Frequency Rang (GHz)	VSWR (Max.)	Connector Type	Dimensions (mm)
CT50-2-N-3	2	DC-3	1.15	N(Male)	Φ 20×36
CT50-2-N-6		DC-6	1.20	N(Male)	
CT50-5-N-3-A	5	DC-3	1.20	N(Male)	Φ 20×36
CT50-5-N-6-A		DC-6	1.25	N(Male)	
CT50-5-N-6-B		DC-6	1.20	N(Male)	Φ 21 x 33.5
CT50-5-N-12.4-B		DC-12.4	1.25	N(Male)	
CT50-5-N-18-B		DC-18	1.30	N(Male)	
CT50-10-N-3-A	10	DC-3	1.20	N(Male)	Φ 30 x 48.5
CT50-10-N-6-A		DC-6	1.25	N(Male)	
CT50-10-N-6-B		DC-6	1.20	N(Male)	Φ 17 x 53.3
CT50-10-N-12.4-B		DC-12.4	1.25	N(Male)	
CT50-10-N-18-B		DC-18	1.30	N(Male)	
CT50-25-N-6	25	DC-6	1.20	N(Male)	Φ 17 x 53.3
CT50-25-N-12.4		DC-12.4	1.30	N(Male)	
CT50-25-N-18		DC-18	1.35	N(Male)	
CT50-30-N-3	30	DC-3	1.15	N(Male)	Φ 45 x 90
CT50-30-N-6		DC-6	1.25	N(Male)	
CT50-50-N-3-A	50	DC-3	1.15	N(Male)	Φ 64 x 09
CT50-50-N-6-A		DC-6	1.25	N(Male)	
CT50-50-N-6-B		DC-6	1.20	N(Male)	Φ 45 x 125.5
CT50-50-N-12.4-B		DC-12.4	1.30	N(Male)	
CT50-50-N-18-B		DC-18	1.35	N(Male)	
CT50-50-N-3-C		DC-3	1.20	N(Male)	80 x 60 x 60
CT50-50-N-6-C	DC-6	1.25	N(Male)		
CT50-100-N-3-A	100	DC-3	1.20	N(Male)	120 x100 x60
CT50-100-N-6-A		DC-6	1.25	N(Male)	
CT50-100-N-6-B		DC-6	1.25	N(Male)	130 x76 x 76
CT50-100-N-8-B		DC-8	1.30	N(Male)	
CT50-100-N-10-B		DC-10	1.35	N(Male)	
CT50-200-N-3-A	200	DC-3	1.20	N(Male)	200 x142 x 65
CT50-200-N-6-A		DC-6	1.25	N(Male)	
CT50-200-N-6-B		DC-6	1.30	N(Male)	200 x142 x 65
CT50-200-N-8-B		DC-8	1.35	N(Male)	
CT50-200-N-10-B		DC-10	1.45	N(Male)	
CT50-300-N-3	300	DC-3	1.20	N(Male)	230 x 160 x 87
CT50-300-N-6		DC-6	1.40	N(Male)	

Product Reference Guide

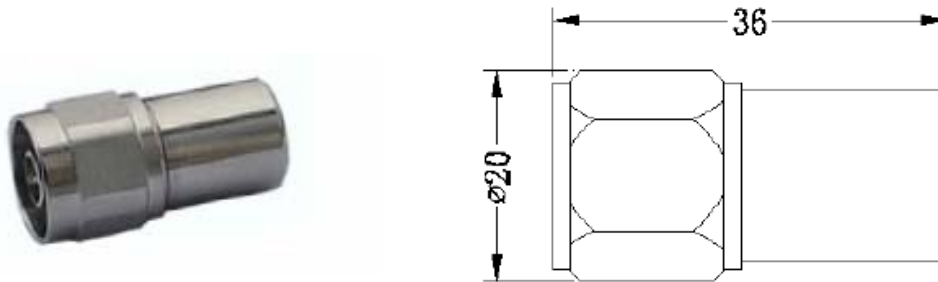
Part Number	Rated Power(W)	Frequency Rang (GHz)	VSWR (Max.)	Connector Type	Dimensions (mm)
CT50-500-N-3-A	500	DC-3	1.20	N(Male)	400 x 245 x 97
CT50-500-N-6-A		DC-6	1.40	N(Male)	
CT50-500-N-6-B		2-6	1.30	N(Male)	280 x 86 x 60
CT50-500-N-18-B		6-18	1.50	N(Male)	
CT50-1000-L29E-3	1000	DC-3	1.30	N(Male)	400 x 410 x 147
CT50-1000-L29E-6		DC-6	1.40	N(Male)	
CT50-1-S-6	1	DC-6	1.10	SMA(Male)	Φ9×14.4
CT50-1-S-12.4		DC-12.4	1.15	SMA(Male)	
CT50-1-S-18		DC-18	1.20	SMA(Male)	
CT50-1-S-22		DC-22	1.25	SMA(Male)	
CT50-2-S-6	2	DC-6	1.15	SMA(Male)	Φ9 x 15
CT50-2-S-12.4		DC-12.4	1.20	SMA(Male)	
CT50-2-S-18		DC-18	1.25	SMA(Male)	
CT50-5-S-6	5	DC-6	1.20	SMA(Male)	Φ 15.5 x 24
CT50-5-S-12.4		DC-12.4	1.25	SMA(Male)	
CT50-5-S-18		DC-18	1.30	SMA(Male)	
CT50-10-S-6	10	DC-6	1.20	SMA(Male)	Φ 17 x 44
CT50-10-S-12.4		DC-12.4	1.25	SMA(Male)	
CT50-10-S-18		DC-18	1.30	SMA(Male)	

N, DC-6GHz, 2W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 2W
- ◇ **Connector Type:** N(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-2-N-3	DC-3	1.15	Φ 20 x 36	45
CT50-2-N-6	DC-6	1.20		

Notes:

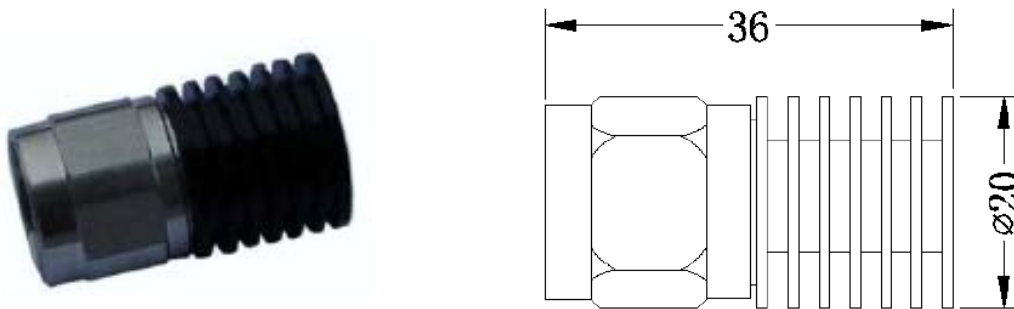
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 5W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 5W
- ✧ **Connector Type:** N(Male)
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-5-N-3-A	DC-3	1.20	Φ 20 x 36	34
CT50-5-N-6-A	DC-6	1.25		

Notes:

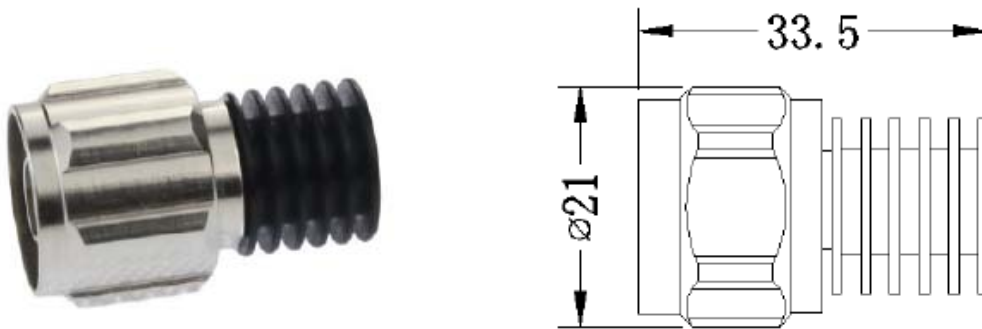
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-18GHz, 5W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 5W
- ◇ **Connector Type:** N(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-5-N-6-B	DC-6	1.20	Φ 21 x 33.5	29.5
CT50-5-N-12.4-B	DC-12.4	1.25		
CT50-5-N-18-B	DC-18	1.30		

Notes:

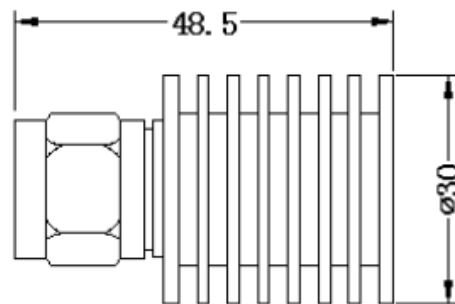
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 10W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 10W
- ◇ **Connector Type:** N(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-10-N-3-A	DC-3	1.20	Φ 30 x 48.5	60
CT50-10-N-6-A	DC-6	1.25		

Notes:

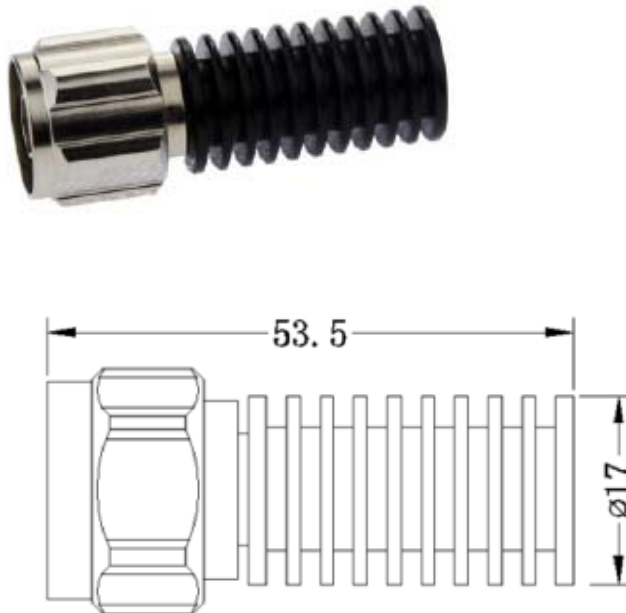
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-18GHz, 10W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 10W
- ✧ **Connector Type:** N(Male)
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-10-N-6-B	DC-6	1.20	Φ 17 x 53.3	29
CT50-10-N-12.4-B	DC-12.4	1.25		
CT50-10-N-18-B	DC-18	1.30		

Notes:

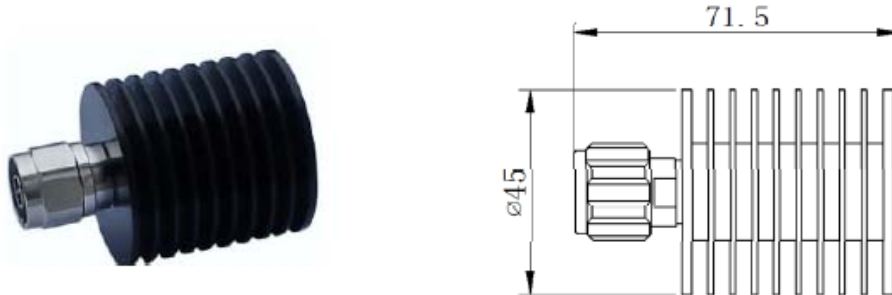
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-18GHz, 25W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 25W
- ✧ **Connector Type:** N(Male)
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-25-N-6	DC-6	1.20	Φ45 x 71.5	29
CT50-25-N-12.4	DC-12.4	1.25		
CT50-25-N-18	DC-18	1.30		

Notes:

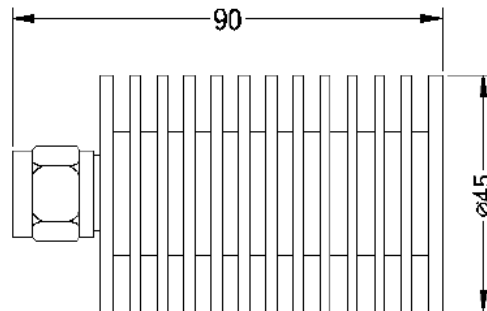
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 30W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 30W
- ◇ **Connector Type:** N(Male) or 7/16
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-30-N-3	DC-3	1.15	Φ 45 x 90	200
CT50-30-N-6	DC-6	1.25		

Notes:

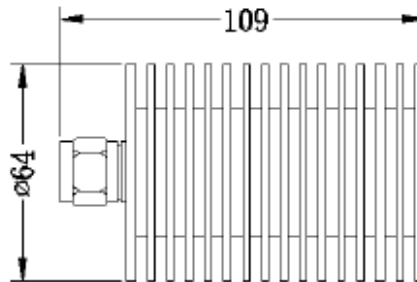
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 50W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 50W
- ✧ **Connector Type:** N(Male) or 7/16
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-50-N-3-A	DC-3	1.15	Φ 64 x 109	305
CT50-50-N-6-A	DC-6	1.25		

Notes:

1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-18GHz, 50W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 50W
- ◇ **Connector Type:** N(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-50-N-6-B	DC-6	1.20	Φ45 x 125.5	249
CT50-50-N-12.4-B	DC-12.4	1.30		
CT50-50-N-18-B	DC-18	1.35		

Notes:

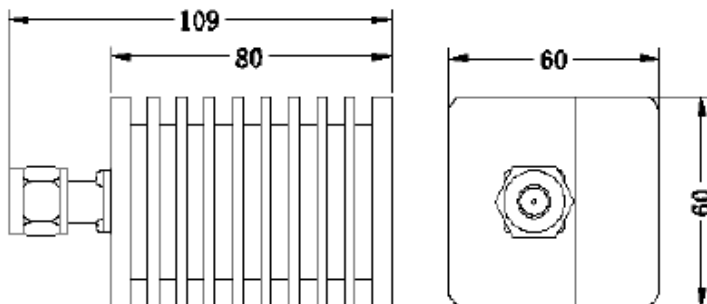
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 50W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 50W
- ✧ **Connector Type:** N(Male) or 7/16
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-50-N-3-C	DC-3	1.20	80 x 60 x 60	390
CT50-50-N-6-C	DC-6	1.25		

Notes:

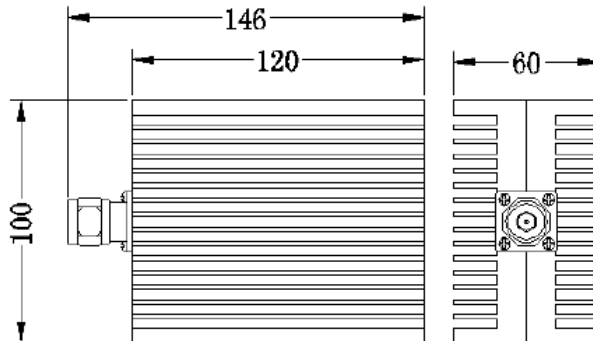
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 100W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 100W
- ✧ **Connector Type:** N(Male) or 7/16
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (kg)
CT50-100-N-3-A	DC-3	1.20	120 x 100 x 60	1.3
CT50-100-N-6-A	DC-6	1.25		

Notes:

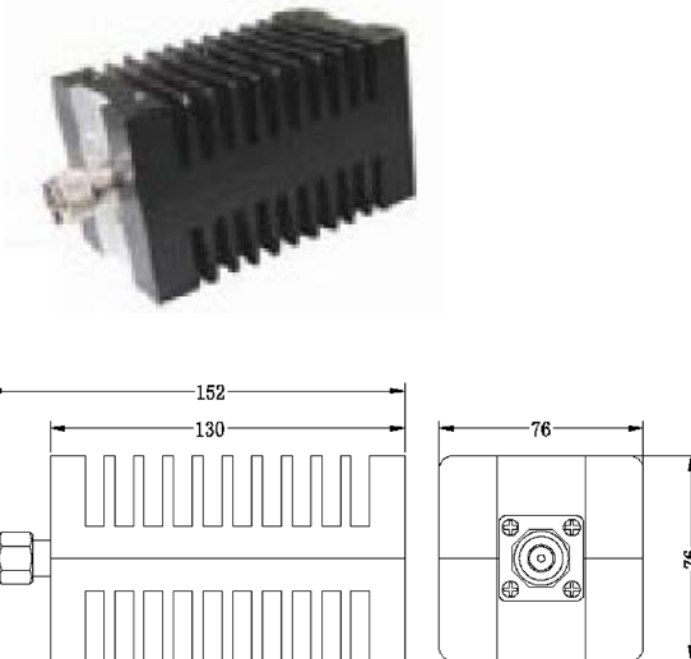
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-10GHz, 100W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 100W
- ✧ **Connector Type:** N(Male)
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (kg)
CT50-100-N-6-B	DC-6	1.25	130 x 76 x 76	1.4
CT50-100-N-8-B	DC-8	1.30		
CT50-100-N-10-B	DC-10	1.35		

Notes:

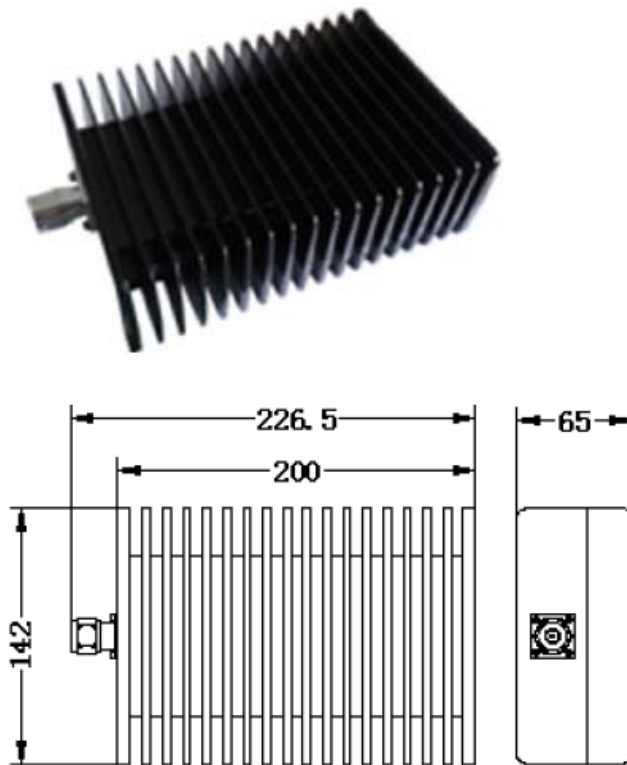
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 200W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 200W
- ✧ **Connector Type:** N(Male) or 7/16
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (kg)
CT50-200-N-3-A	DC-3	1.20	200 x 142 x 65	2.3
CT50-200-N-6-A	DC-6	1.25		

Notes:

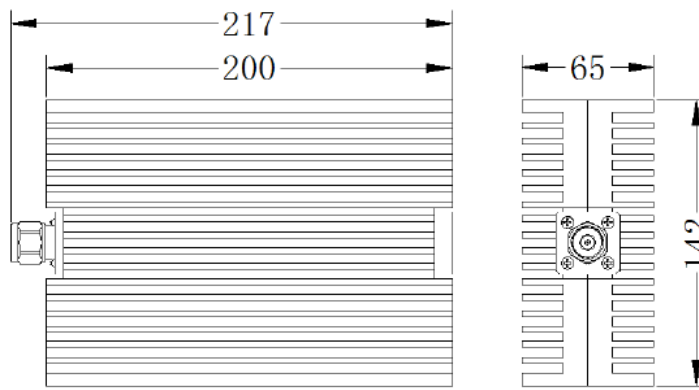
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-10GHz, 200W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 200W
- ◇ **Connector Type:** N(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (kg)
CT50-200-N-6-B	DC-6	1.30	200 x 142 x 65	3.1
CT50-200-N-8-B	DC-8	1.35		
CT50-200-N-10-B	DC-10	1.45		

Notes:

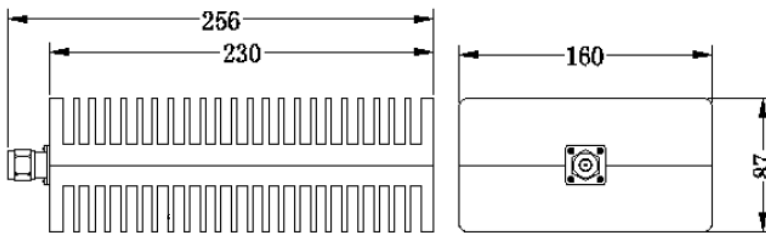
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 300W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 300W
- ◇ **Connector Type:** N(Male) or 7/16
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (kg)
CT50-300-N-3	DC-3	1.20	230 x 160 x 87	3.4
CT50-300-N-6	DC-6	1.40		

Notes:

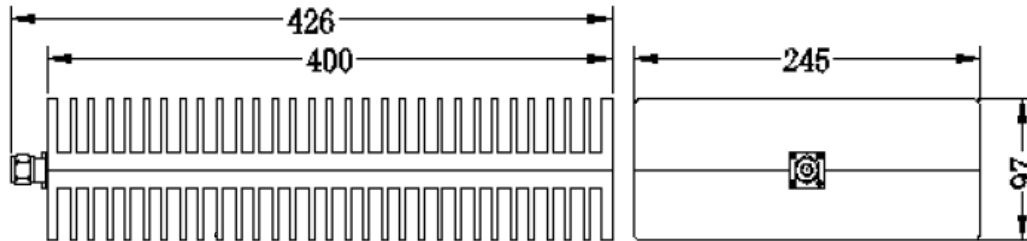
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-6GHz, 500W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 500W
- ◇ **Connector Type:** N(Male) or 7/16
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (kg)
CT50-500-N-3-A	DC-3	1.20	400 x 245 x 97	10
CT50-500-N-6-A	DC-6	1.40		

Notes:

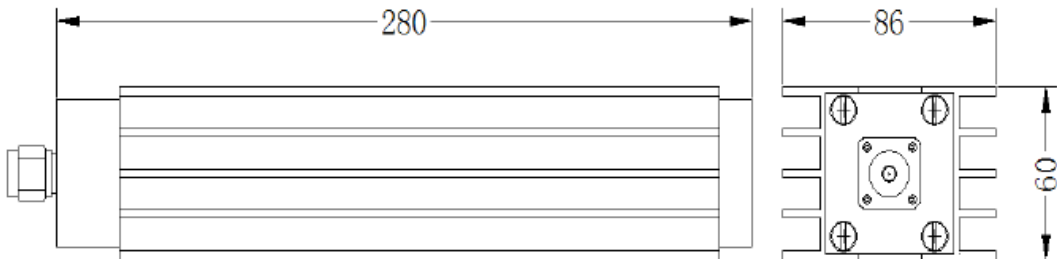
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

N, DC-18GHz, 500W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 500W
- ✧ **Connector Type:** N(Male)
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)
CT50-500-N-6-B	2 - 6	1.30	280 x 86 x 60
CT50-500-N-18-B	6 - 18	1.50	

Notes:

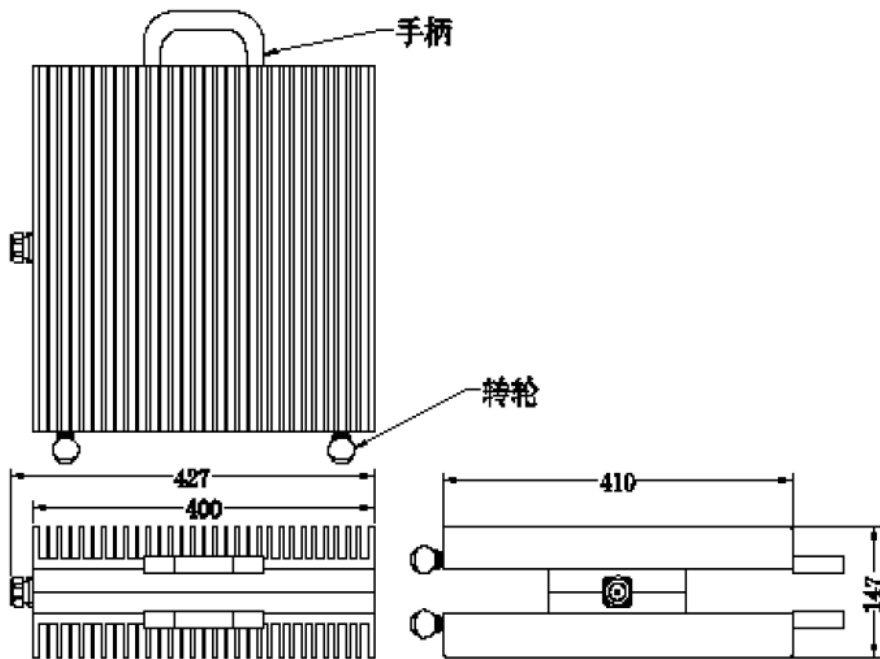
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5 μ s pulse width, 1% duty cycle).

7/16, DC-6GHz, 1000W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 1000W
- ◇ **Connector Type:** N(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)
CT50-1000-L29E-3	DC-3	1.30	400 x 410 x 147
CT50-1000-L29E-6	DC-6	1.40	

Notes:

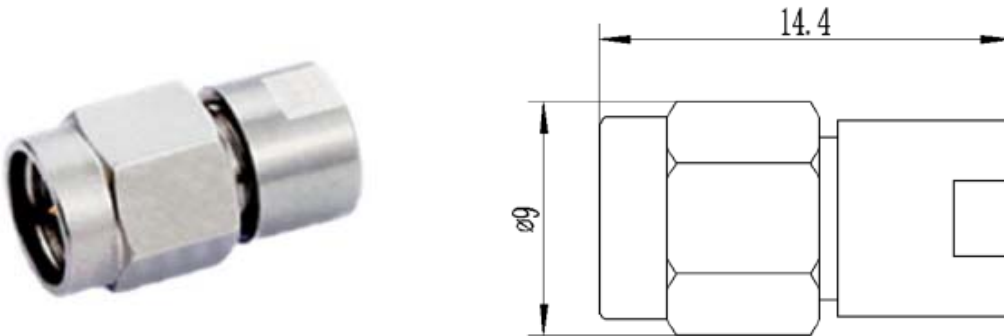
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

SMA , DC-22GHz, 1W

Electrical Specifications

- ✧ **Nominal Impedance:** 50 Ω
- ✧ **Power Rating:** 1W
- ✧ **Connector Type:** SMA(Male)
- ✧ **Operating Temperature:** -55°C ~ +125°C
- ✧ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-1-S-6	DC-6	1.10	Φ9 x 14.4	5
CT50-1-S-12.4	DC-12.4	1.15		
CT50-1-S-18	DC-18	1.20		
CT50-1-S-22	DC-22	1.25		

Notes:

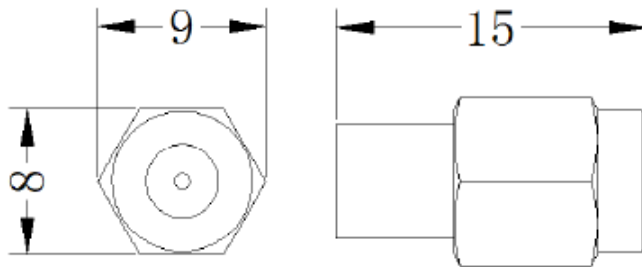
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

SMA, DC-18GHz, 2W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 2W
- ◇ **Connector Type:** SMA(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-2-S-6	DC-6	1.15	Φ9 x 15	4
CT50-2-S-12.4	DC-12.4	1.20		
CT50-2-S-18	DC-18	1.25		

Notes:

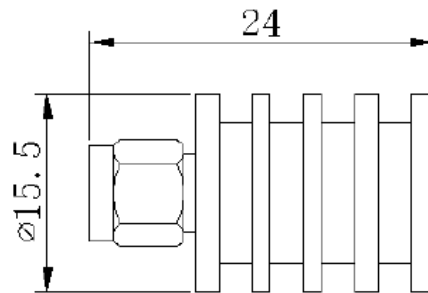
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

SMA , DC-18GHz, 5W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 5W
- ◇ **Connector Type:** SMA(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-5-S-6	DC-6	1.15	Φ 15.4 x 24	8.5
CT50-5-S-12.4	DC-12.4	1.20		
CT50-5-S-18	DC-18	1.25		

Notes:

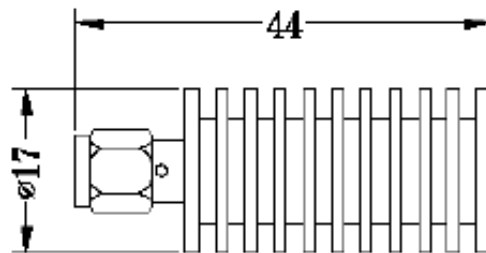
1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).

SMA , DC-18GHz, 10W

Electrical Specifications

- ◇ **Nominal Impedance:** 50 Ω
- ◇ **Power Rating:** 10W
- ◇ **Connector Type:** SMA(Male)
- ◇ **Operating Temperature:** -55°C ~ +125°C
- ◇ **RoHS Compliant**

Outline Drawing (mm)



Part Number	Frequency Range(GHz)	VSWR (Max.)	Dimensions (mm)	Weight (g)
CT50-10-S-6	DC-6	1.20	Φ 17 x 44	16
CT50-10-S-12.4	DC-12.4	1.25		
CT50-10-S-18	DC-18	1.30		

Notes:

1. Input power shall meet the requirements of the power derating.
2. General peak power 10 times rated power (5μs pulse width, 1% duty cycle).