

Table of Contents

NCT67R5 (DC~67GHz,0.5W).....	1
NCT6702 (DC~67GHz, 2W).....	2
NCT50R5 (DC~50GHz, 0.5W).....	3
NCT5002 (DC~50GHz, 2W).....	4
NCT5005 (DC~50GHz, 5W).....	5
NCT40R5 (DC~40GHz, 0.5W).....	6
NCT4002 (DC~40GHz, 2W).....	7
NCT4005 (DC~40GHz, 5W).....	8
NCT4010 (DC~40GHz,10W).....	9
NCT4020 (DC~40GHz, 20W).....	10
NCT4050 (DC~40GHz, 50W).....	11
NCT33R5 (DC~33GHz, 0.5W).....	12
NCT3302 (DC~33GHz, 2W).....	13
NCT2602 (DC~26.5GHz, 2W).....	14
NCT2605 (DC~26.5GHz, 5W).....	15
NCT2610 (DC~26.5GHz, 10W).....	16
NCT2625 (DC~26.5GHz,25W).....	17
NCT2650 (DC~26.5GHz,50W).....	18
NCT26K1 (DC~26.5GHz,100W).....	19
NCT1801 (DC~18GHz, 1W).....	20
NCT1802 (DC~18GHz, 2W).....	21
NCT1805 (DC~18GHz, 5W).....	22
NCT1810 (DC~18GHz, 10W).....	23
NCT1820 (DC~18GHz, 20W).....	24
NCT1850 (DC~18GHz, 50W).....	25
NCT18K1 (DC~18GHz, 100W).....	26
NCT18K15 (DC~18GHz, 150W).....	27
NCT18K2 (DC~18GHz, 200W).....	28
NCT18K25 (DC~18GHz, 250W).....	29
NCT18K3 (DC~18GHz, 300W).....	30
NCT18K5 (DC~18GHz,500W).....	31

NCT67R5

DC~67GHz, 0.5W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~67GHz
Average Power:	0.5W
VSWR:	1.45 max.
Impedance:	50Ω

Mechanical

Connector:	1.85mm
Outer Conductor:	Passivated stainless steel
Dielectric:	PEI
Inner Conductor:	Gold plated beryllium copper

Environmental

Temperature:	-55~+125°C
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How To Order

NCT67R5-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

V - 1.85mm Male, (Outline A)

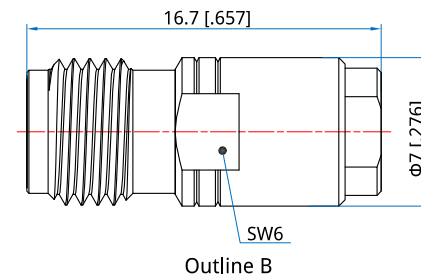
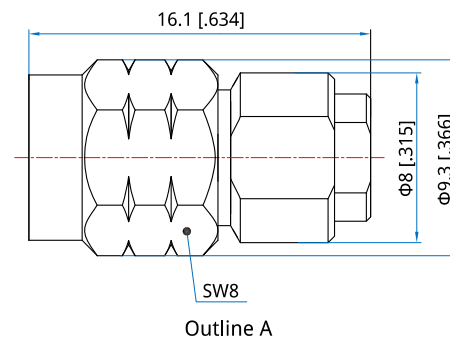
VF - 1.85mm Female, (Outline B)

Examples:

To order a termination, DC-67GHz, 1.85mm male, specify NCT67R5-67-V.

Customization is available upon request.

Outline Drawings



Unit: mm [in]

Tolerance: ±2mm [±0.08in]

NCT6702

DC~67GHz, 2W

Features:
 * Low VSWR
 * Broadband

Applications:
 * Transmitters
 * Antennas
 * Laboratory Test
 * Impedance Matching

Electrical

Frequency Range: DC~67GHz
 Average Power*1: 2W@25°C max.
 VSWR: 1.8 max.
 Impedance: 50Ω

[1] Derated linearly to 0.1W@120°C.

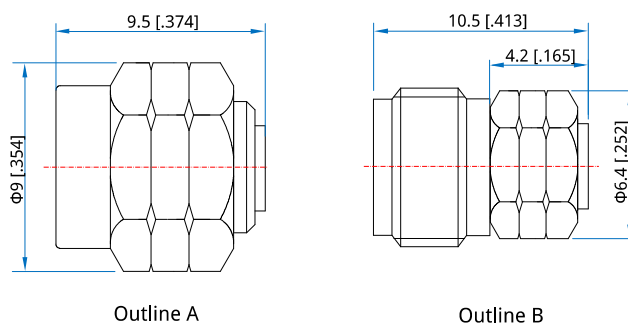
Mechanical

Connector: 1.85mm Male
 1.85mm Female
 Outer Conductor: Passivated stainless steel
 Dielectric: PEEK or PEI
 Male Inner Conductor: Gold plated tin phosphorus bronze
 Female Inner Conductor: Gold plated beryllium copper

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]
 Tolerance: ±2mm [±0.08in]

How To Order

NCT6702-X-Y
 X: Frequency in GHz
 Y: Connector type

Connector naming rules:
 V - 1.85mm Male, Outline A
 VF - 1.85mm Female, Outline B

Examples:

To order a termination, DC-67GHz, 1.85mm male, specify NCT6702-67-V.

Customization is available upon request.

NCT50R5

DC~50GHz, 0.5W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~50GHz
Average Power:	0.5W
Impedance:	50Ω
VSWR:	1.3 max. (DC~40GHz)
	1.4 max. (DC~50GHz)

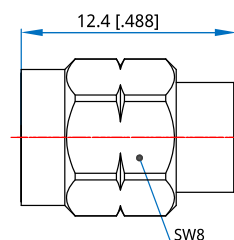
Mechanical

Connectors:	2.4mm
Outer Conductor:	Passivated stainless steel
Inner Conductor:	Gold plated beryllium copper
Dielectric:	PEI

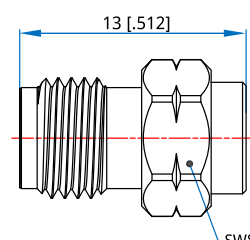
Environmental

Temperature:	-55~+125°C
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Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCT50R5-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

2 - 2.4mm male (Outline A)

2F - 2.4mm female (Outline B)

Examples:

To order a termination, DC-50GHz, 2.4mm male, specify NCT50R5-50-2.

Customization is available upon request.

NCT5002

DC~50GHz, 2W

Features:
 * Low VSWR
 * Broadband

Applications:
 * Transmitters
 * Antennas
 * Laboratory Test
 * Impedance Matching

Electrical

Frequency Range: DC~50GHz
 Average Power^{*1}: 2W
 Impedance: 50Ω
 VSWR: 1.4 max.

[1] Derated linearly to 0.1W@120°C.

Mechanical

Size^{*2}: Ø8*24.2mm
 Ø0.315*0.953in
 Size^{*3}: Ø8*22.3mm
 Ø0.315*0.878in
 Weight: 5g
 Connectors: 2.4mm
 Housing: Aluminum
 Outer Conductor: Gold plated brass or stainless steel
 Male Inner Conductor: Gold plated brass
 Female Inner Conductor: Gold plated beryllium copper

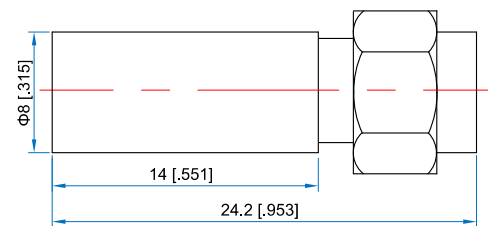
[2] 2.4mm male.

[3] 2.4mm female.

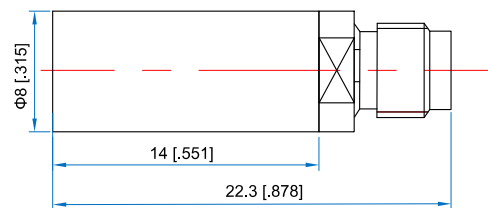
Environmental

Temperature: -55~+85°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCT5002-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

2 - 2.4mm male (Outline A)

2F - 2.4mm female (Outline B)

Examples:

To order a termination, DC-50GHz, 2.4mm male, specify NCT5002-50-2.

Customization is available upon request.

NCT5005

DC~50GHz, 5W

Features:
 * Low VSWR
 * Broadband

Applications:
 * Transmitters
 * Antennas
 * Laboratory Test
 * Impedance Matching

Electrical

Frequency Range: DC~50GHz
 Average Power*1: 5W
 Impedance: 50Ω
 VSWR: 1.4 max.

[1] Derated linearly to 0.25W@120°C.

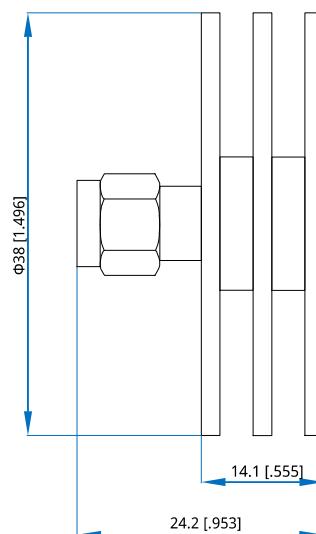
Mechanical

Connector: 2.4mm
 Weight: 30g
 Housing: Aluminum
 Outer Conductor: Gold plated brass or stainless steel
 Male Inner Conductor: Gold plated brass
 Female Inner Conductor: Gold plated beryllium copper

Environmental

Temperature: -55~+85°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

How To Order

NCT5005-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

2 - 2.4mm male

2F - 2.4mm female

Examples:

To order a termination, DC-50GHz, 2.4mm male, specify NCT5005-50-2.

Customization is available upon request.

NCT40R5

DC~40GHz, 0.5W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range: DC~40GHz

Average Power: 0.5W

Impedance: 50Ω

VSWR

Frequency (GHz)	2.92mm	SSMA	SMP	SSMP
DC~18	1.25	1.3	1.2	1.2
DC~26.5	1.25	1.3	1.3	1.3
DC~40	1.25	1.3	1.4	1.5

Mechanical

Connectors: 2.92mm, SSMA, SMP, SSMP

Environmental

Temperature: -55~+125°C

How To Order

NCT40R5-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

K - 2.92mm male (Outline A)

KF - 2.92mm female (Outline B)

A - SSMA male (Outline C)

AF - SSMA female (Outline D)

P - SMP male (Outline E)

PF - SMP female (Outline F)

G - SSMP male (Outline G)

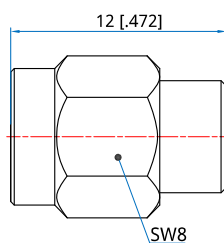
GF - SSMP female (Outline H)

Examples:

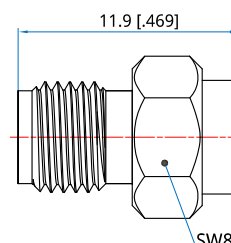
To order a termination, DC-40GHz, 2.92mm male, specify NCT40R5-40-K.

Customization is available upon request.

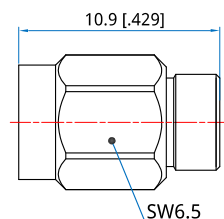
Outline Drawings



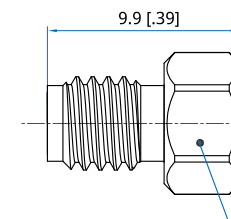
Outline A



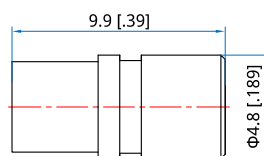
Outline B



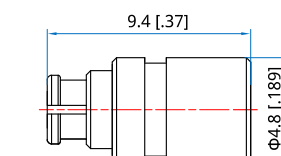
Outline C



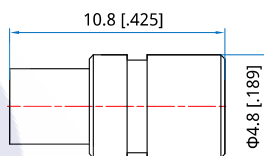
Outline D



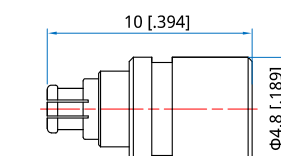
Outline E



Outline F



Outline G



Outline H

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

NCT4002

DC~40GHz, 2W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching



Electrical

Frequency Range: DC~40GHz
Average Power^{*1}: 2W
Impedance: 50Ω
VSWR: 1.35 max.

[1] Derated linearly to 0.1W@120°C.

Mechanical

Size^{*2}: Ø8*24.2mm
 Ø0.315*0.953in
Size^{*3}: Ø8*22.2mm
 Ø0.315*0.874in
Weight: 5g
Connectors: 2.92mm
Housing: Aluminum
Outer Conductor: Gold Plated Brass or Stainless Steel
Male Inner Conductor: Gold Plated Brass
Female Inner Conductor: Gold Plated Beryllium Copper

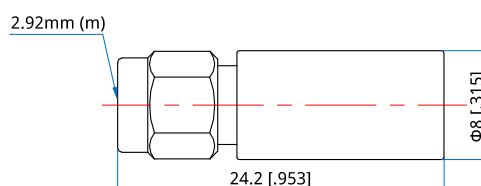
[2] 2.92mm male.

[3] 2.92mm female.

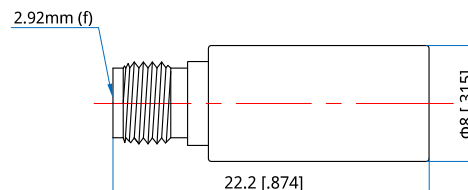
Environmental

Temperature: -55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCT4002-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

K - 2.92mm male (Outline A)

KF - 2.92mm female (Outline B)

Examples:

To order a termination, DC-40GHz, 2.92mm male, specify NCT4002-40-K.

Customization is available upon request.

NCT4005

DC~40GHz, 5W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching

Electrical

Frequency Range: DC~40GHz
Average Power^{*1}: 5W@25°C max.
VSWR: 1.35 max.
Impedance: 50Ω

[1] Derated linearly to 0.25W@120°C.

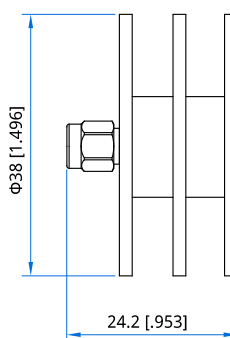
Mechanical

Connector: 2.92mm
Weight: 30g
Housing: Aluminum
Outer Conductor: Gold plated brass or stainless steel
Male Inner Conductor: Gold plated brass
Female Inner Conductor: Gold plated beryllium copper

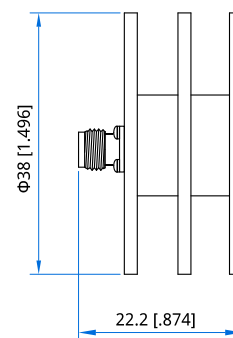
Environmental

Temperature: -55~+85°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

How To Order

NCT4005-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

K - 2.92mm male (Outline A)

KF - 2.92mm female (Outline B)

Examples:

To order a termination, DC-40GHz, 2.92mm male, specify NCT4005-40-K.

Customization is available upon request.

NCT4010

DC~40GHz, 10W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching

Electrical

Frequency Range: DC~40GHz
Average Power*1: 10W@25°C max.
VSWR: 1.35 max.
Impedance: 50Ω

[1] Derated linearly to 0.5W@120°C.

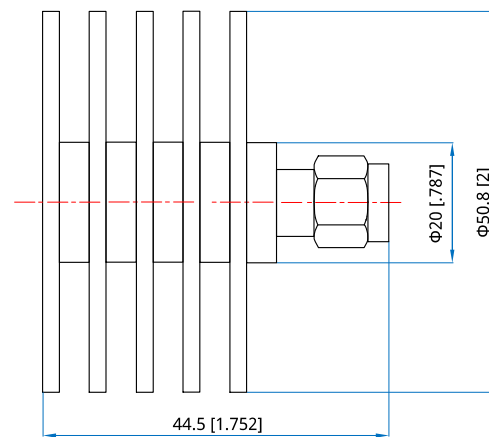
Mechanical

Connector: 2.92mm
Size: $\Phi 50.8 \times 44.5$ mm
 $\Phi 2 \times 1.752$ in
Weight: 85g
Housing: Aluminum
Outer Conductor: Gold plated brass or stainless steel
Male Inner Conductor: Gold plated brass
Female Inner Conductor: Gold plated beryllium copper

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]
Tolerance: ± 0.5 mm [± 0.02 in]

How To Order

NCT4010-X-Y
X: Frequency in GHz
Y: Connector type

Connector naming rules:
K - 2.92mm male
KF - 2.92mm female

Examples:
To order a termination, DC-40GHz, 2.92 male, specify NCT4010-40-K.

Customization is available upon request.

NCT4020

DC~40GHz, 20W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching

Electrical

Frequency Range: DC~40GHz
Average Power*1: 20W@25°C max.
VSWR: 1.35 max.
Impedance: 50Ω

[1] Derated linearly to 1W@120°C.

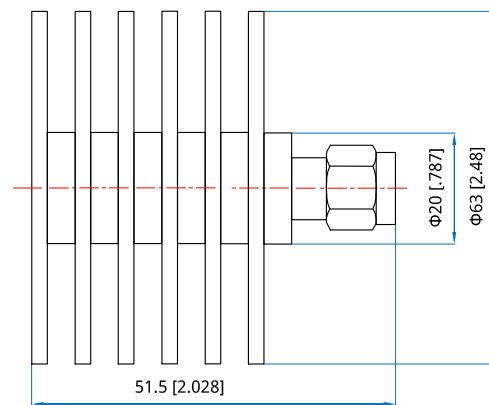
Mechanical

Connector: 2.92mm
Size: Φ63*51.5mm
Φ2.48*2.028in
Weight: Aluminum
Housing: 140g
Outer Conductor: Gold plated brass or stainless steel
Male Inner Conductor: Gold plated brass
Female Inner Conductor: Gold plated beryllium copper

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

How To Order

NCT4020-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

K - 2.92mm male

KF - 2.92mm female

Examples:

To order a termination, DC-40GHz, 2.92 male, specify NCT4020-40-K.

Customization is available upon request.

NCT4050

DC~40GHz, 50W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching



Electrical

Frequency Range: DC~40GHz
Average Power*1: 50W@25°C max.
VSWR: 1.35 max.
Impedance: 50Ω

[1] Derated linearly to 2.5W@120°C.

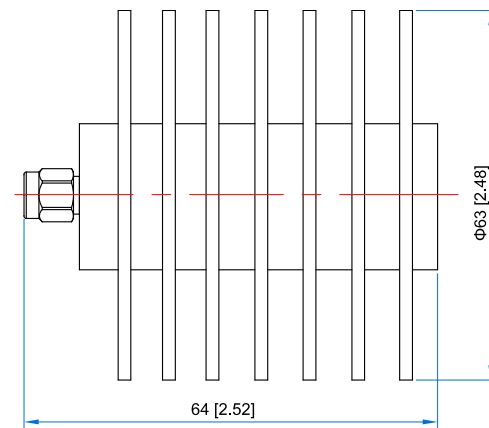
Mechanical

Connector: 2.92mm
Size: Φ63*64mm
 Φ2.48*2.52in
Weight: 168g
Housing: Aluminum
Outer Conductor: Gold plated brass or stainless steel
Male Inner Conductor: Gold plated brass
Female Inner Conductor: Gold plated beryllium copper

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]
Tolerance: ±0.5mm [±0.02in]

How To Order

NCT4050-X-Y
X: Frequency in GHz
Y: Connector type

Connector naming rules:
K - 2.92mm male
KF - 2.92mm female

Examples:

To order a termination, DC-40GHz, 2.92 male, specify NCT4050-40-K.

Customization is available upon request.

NCT33R5

DC~33GHz, 0.5W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~33GHz
Average Power:	0.5W
Impedance:	50Ω
VSWR:	1.25 max.

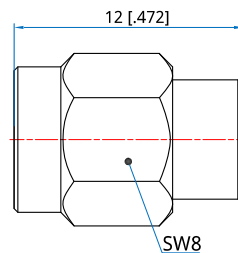
Mechanical

Connectors:	3.5mm
Outer Conductor:	Passivated Stainless Steel
Inner Conductor:	Gold Plated Beryllium Copper
Dielectric:	PEI

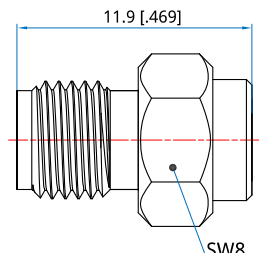
Environmental

Temperature:	-55~+125°C
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Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCT33R5-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

3 - 3.5mm Male (Outline A)

3F - 3.5mm Female (Outline B)

Examples:

To order a termination, DC-33GHz, 3.5mm male, specify NCT33R5-33-3

Customization is available upon request.

NCT3302

DC~33GHz, 2W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching

Electrical

Frequency Range: DC~33GHz
Average Power*1: 2W
Impedance: 50Ω
VSWR: 1.15 max.

[1] Derated linearly to 0.1W@120°C.

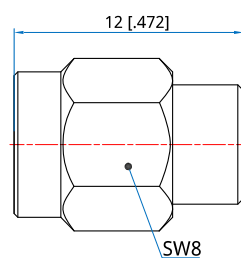
Mechanical

Connectors: 3.5mm
Outer Conductor: Passivated Stainless Steel
Inner Conductor: Gold Plated Beryllium Copper
Dielectric: PEI

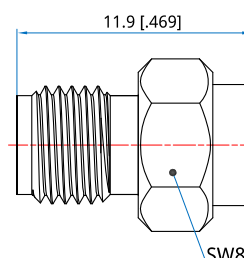
Environmental

Temperature: -55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]
Tolerance: ±0.2mm [±0.008in]

How To Order

NCT3302-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

3 - 3.5mm Male (Outline A)

3F - 3.5mm Female (Outline B)

Examples:

To order a termination, DC-33GHz, 3.5mm male, specify NCT3302-33-3

Customization is available upon request.

NCT2602

DC~26.5GHz, 2W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching

Electrical

Frequency Range: DC~26.5GHz
Average Power^{*1}: 2W
Impedance: 50Ω
VSWR: 1.25 max.

[1] Derated linearly to 0.1W@120°C.

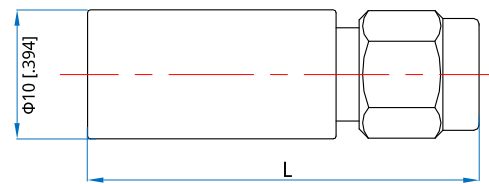
Mechanical

Weight: 5~8g
Connectors: 2.92mm, 3.5mm, SMA
Housing: Aluminum
Outer Conductor: Gold plated brass or nickel
Male Inner Conductor: Gold plated brass
Female Inner Conductor: Gold plated beryllium copper

Environmental

Temperature: -55~+85°C

Outline Drawings



L:	2.92mm		3.5mm		SMA	
	(M)	(F)	(M)	(F)	(M)	(F)
mm:	21.5	21	26.3	25.5	21.5	20
in:	0.846	0.827	1.035	1.004	0.846	0.787

Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCT2602-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

K - 2.92mm

3 - 3.5mm

S - SMA

Female Connector - Add 'F' after connector name

Examples:

To order a termination, DC-26.5GHz, 2.92mm male, specify NCT2602-26.5-K.

Customization is available upon request.

NCT2605

DC~26.5GHz, 5W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~26.5GHz
Average Power*1:	5W@25°C max.
Impedance:	50Ω
VSWR:	1.3 max. (SMA) 1.2 max. (3.5mm)

[1] Derated linearly to 0.25W@120°C.

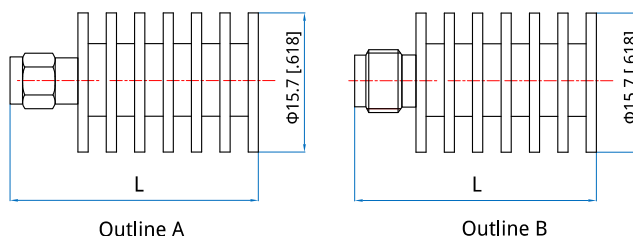
Mechanical

Weight:	10g
Connectors:	SMA, 3.5mm
Housing:	Aluminum
Outer Conductor:	Gold plated brass
Male Inner Conductor:	Gold plated brass
Female Inner Conductor:	Gold plated beryllium copper

Environmental

Temperature:	-55~+85°C
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Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

L=25.5mm, SMA male, Outline A

L=24.6mm, SMA female, Outline B

L=26.3mm, 3.5mm male, Outline A

L=25.5mm, 3.5mm female, Outline B

How To Order

NCT2605-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

S - SMA male

SF - SMA female

3 - 3.5mm male

3F - 3.5mm female

Examples:

To order a termination, DC-26.5GHz, 3.5mm male, specify NCT2605-26.5-3.

Customization is available upon request.

NCT2610

DC~26.5GHz, 10W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~26.5GHz
Average Power*1:	10W@25°C max.
Impedance:	50Ω
VSWR:	1.30 max. (SMA) 1.25 max. (3.5mm)

[1] Derated linearly to 0.5W@120°C.

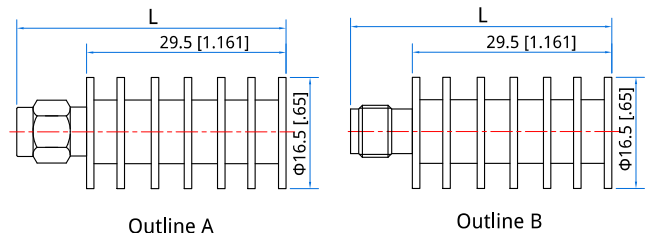
Mechanical

Weight:	15g
Connectors:	SMA, 3.5mm
Housing:	Aluminum
Outer Conductor:	Gold plated brass or stainless steel
Male Inner Conductor:	Gold plated brass
Female Inner Conductor:	Gold plated beryllium copper

Environmental

Temperature:	-55~+85°C
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Outline Drawings



Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

L=39.5mm, SMA male, Outline A

L=41mm, SMA female, Outline B

L=38.7mm, 3.5mm male, Outline A

L=40.2mm, 3.5mm female, Outline B

How To Order

NCT2610-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

S - SMA male

SF - SMA female

3 - 3.5mm male

3F - 3.5mm female

Examples:

To order a termination, DC-26.5GHz, SMA Male, specify NCT2610-26.5-S.

Customization is available upon request.

NCT2625

DC~26.5GHz, 25W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~26.5GHz
Average Power*1:	25W@25°C max.
Impedance:	50Ω
VSWR:	1.30 max. (SMA) 1.25 max. (3.5mm)

[1] Derated linearly to 1.25W@120°C.

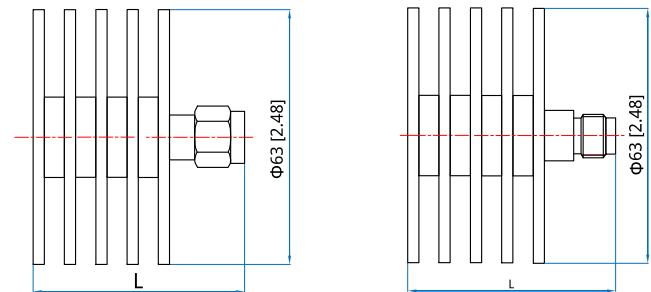
Mechanical

Connectors:	SMA, 3.5mm
Housing:	Aluminum
Outer Conductor:	Gold plated brass or stainless steel
Male Inner Conductor:	Gold plated brass
Female Inner Conductor:	Gold plated beryllium copper

Environmental

Temperature:	-55~+85°C
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Outline Drawings



Outline A

Outline B

Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

L=38.3mm, SMA male, Outline A
L=37.3mm, SMA female, Outline B
L=39.8mm, 3.5mm male, Outline A
L=39mm, 3.5mm female, Outline B

How To Order

NCT2625-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

- S - SMA male
- SF - SMA female
- 3 - 3.5mm male
- 3F - 3.5mm female

Examples:

To order a termination, DC-26.5GHz, SMA male, specify NCT2625-26.5-S.

Customization is available upon request.

NCT2650

DC~26.5GHz, 50W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~26.5GHz
Average Power*1:	50W@25°C max.
Impedance:	50Ω
VSWR:	1.30 max. (SMA) 1.25 max. (3.5mm)

[1] Derated linearly to 2.5W@120°C.

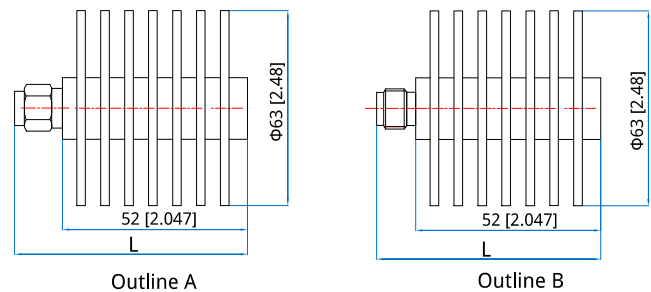
Mechanical

Weight:	160g max.
Connectors:	SMA, 3.5mm
Housing:	Aluminum
Outer Conductor:	Gold plated brass or stainless steel
Male Inner Conductor:	Gold plated brass
Female Inner Conductor:	Gold plated beryllium copper

Environmental

Temperature:	-55~+85°C
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Outline Drawings



Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

L=62mm, SMA male, Outline A

L=61mm, SMA female, Outline B

L=63.5mm, 3.5mm male, Outline A

L=62.7mm, 3.5mm female, Outline B

How To Order

NCT2650-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

S - SMA male

SF - SMA female

3 - 3.5mm male

3F - 3.5mm female

Examples:

To order a termination, DC-26.5GHz, SMA male, specify NCT2650-26.5-S.

Customization is available upon request.

NCT26K1

DC~26.5GHz, 100W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~26.5GHz
Average Power*1:	100W
Impedance:	50Ω
VSWR:	1.4 max.

[1] Derated linearly to 5W@120°C.

Mechanical

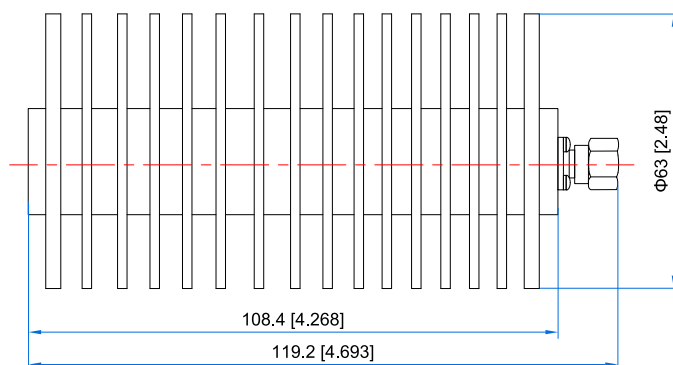
Size*2:	Φ63*108.4mm Φ2.48*4.268in
Weight:	400g
Connectors:	SMA
Housing:	Aluminum
Outer Conductor:	Gold plated brass
Male Inner Conductor:	Gold plated brass
Female Inner Conductor:	Gold plated beryllium copper

[2] Exclude connectors.

Environmental

Temperature:	-55~+85°C
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Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCT26K1-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

S - SMA male

SF - SMA female

Examples:

To order a termination, DC-26.5GHz, SMA male, specify NCT26K1-26.5-S.

Customization is available upon request.

NCT1801

DC~18GHz, 1W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range:	DC~18GHz
Average Power:	1W
Impedance:	50Ω
VSWR:	1.25 max.

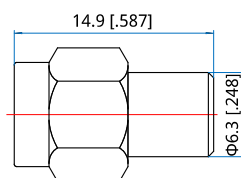
Mechanical

Size:	Φ6.3*14.9mm Φ0.248*0.587in
Weight:	10g max.
Connector:	SMA Male
Outer Conductor:	Stainless steel
Dielectric:	PTFE
Inner Conductor:	Beryllium copper

Environmental

Temperature:	-45~+85°C
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Outline Drawings



Unit: mm [in]

Tolerance: ±0.2mm [±0.008in]

How To Order

NCT1801-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

S - SMA male

Examples:

To order a termination, DC-18GHz, SMA male, specify NQCT1801-18-S.

Customization is available upon request.

NCT1802

DC~18GHz, 2W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power^{*1}: 2W@25°C max.
Impedance: 50Ω

[1] Derated linearly to 0.1W@120°C.

VSWR

Frequency (GHz)	VSWR ^{*2} (max.)	VSWR ^{*3} (max.)
DC~4	1.20	1.15
DC~8	1.25	1.20
DC~12.4	1.30	1.25
DC~18	1.40	1.30

[2] N connector

[3] SMA connector

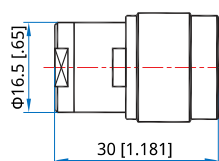
Mechanical

Connectors: N, SMA

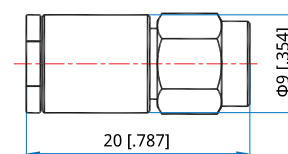
Environmental

Temperature: -55~+125°C

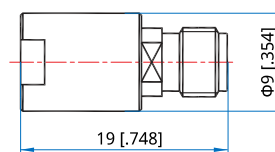
Outline Drawings



Outline A



Outline B



Outline C

Unit: mm [in]

Tolerance: ±1mm [±0.04in]

How To Order

NCT1802-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N male (Outline A)

NF - N female

S - SMA male (Outline B)

SF - SMA female (Outline C)

Examples:

To order a termination, DC-12.4GHz, SMA male, specify NCT1802-12.4-S.

Customization is available upon request.

NCT1805

DC~18GHz, 5W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching



Electrical

Frequency Range: DC~18GHz

Average Power^{*1}: 5W@25°C

Impedance: 50Ω

[1] Derated linearly to 0.25W@120°C.

VSWR

Frequency (GHz)	VSWR ^{*2} (max.)	VSWR ^{*3} (max.)
DC~4	1.20	1.15
4~8	1.25	1.20
8~12.4	1.30	1.25
12.4~18	1.40	1.30

[2] N connector

[3] SMA connector

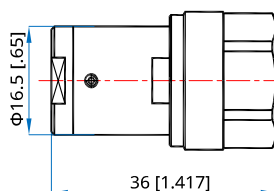
Mechanical

Connectors: N, SMA

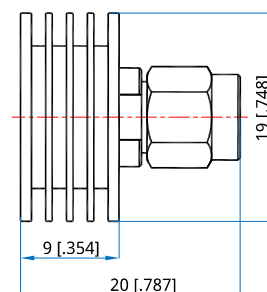
Environmental

Temperature: -55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: ±1mm [±0.04in]

How To Order

NCT1805-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N male (Outline A)

NF - N female

S - SMA male (Outline B)

SF - SMA female

Examples:

To order a termination, DC-12.4GHz, SMA male, specify NCT1805-12.4-S.

Customization is available upon request.

NCT1810

DC~18GHz, 10W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power*1: 10W@25°C max.
Impedance: 50Ω

[1] Derated linearly to 0.5W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.20
4~8	1.25
8~12.4	1.35
12.4~18	1.40

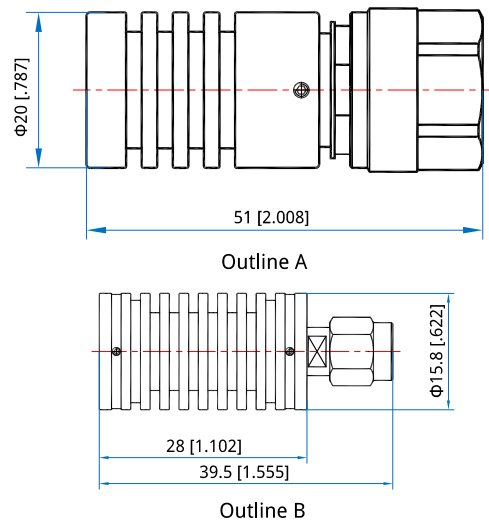
Mechanical

Connectors: N, SMA

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]

Tolerance: ±1.6mm [±0.06in]

How To Order

NCT1810-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N male (Outline A)

NF - N female

S - SMA male (Outline B)

SF - SMA female

Examples:

To order a termination, DC-12.4GHz, N male, specify NCT1810-12.4-N.

Customization is available upon request.

NCT1820

DC~18GHz, 20W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power^{*1}: 20W@25°C
Impedance: 50Ω

[1] Derated linearly to 1W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.20
4~8	1.25
8~12.4	1.35
12.4~18	1.40

Mechanical

Size^{*2}: Φ38*28mm
Φ1.496*1.102in

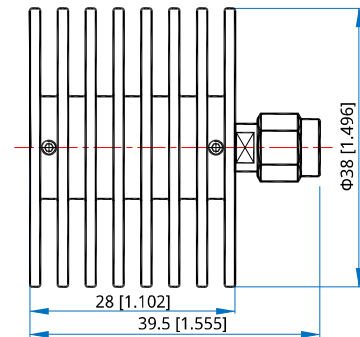
Connector: SMA, N

[2] Exclude connectors.

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

How To Order

NCT1820-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

- N - N male
- NF - N female
- S - SMA male
- SF - SMA female

Examples:

To order a termination, DC-18GHz, SMA male, specify NCT1820-18-S.

Customization is available upon request.

NCT1850

DC~18GHz, 50W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power^{*1}: 50W@25°C
Impedance: 50Ω

[1] Derated linearly to 2.5W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.20
4~8	1.25
8~12.4	1.35
12.4~18	1.40

Mechanical

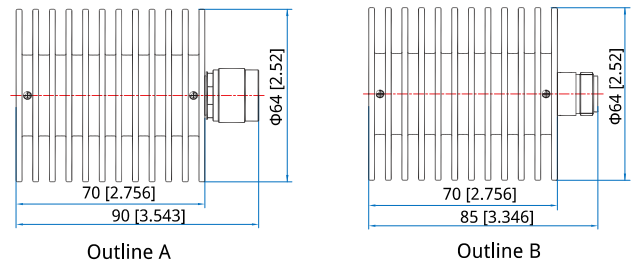
Size^{*2}: Φ64*70mm
Φ2.52*2.756in
Connector: N, SMA

[2] Exclude connectors.

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]

Tolerance: ±0.5mm [±0.02in]

How To Order

NCT1850-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N male (Outline A)

NF - N female (Outline B)

S - SMA male

SF - SMA female

Examples:

To order a termination, DC-12.4GHz, N male, specify NCT1850-12.4-N.

Customization is available upon request.

NCT18K1

DC~18GHz, 100W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching

Electrical

Frequency Range: DC~18GHz
Average Power^{*1}: 100W@25°C
Impedance: 50Ω

[1] Derated linearly to 5W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.15
4~8	1.20
8~12.4	1.25
12.4~18	1.35

Mechanical

Size^{*2}: Φ64*121mm
Φ2.52*4.764in

Connector: N, SMA

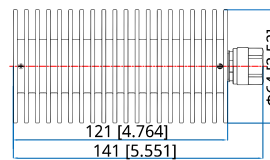
[2] Exclude connectors.

Environmental

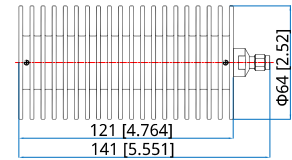
Temperature: -55~+125°C



Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: ±1.5mm [±0.06in]

How To Order

NCT18K1-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N male (Outline A)

S - SMA male (Outline B)

Examples:

To order a termination, DC-4GHz, N male, specify

NCT18K1-4-N.

Customization is available upon request.

NCT18K15

DC~18GHz, 150W

Features:
* Low VSWR
* Broadband

Applications:
* Transmitters
* Antennas
* Laboratory Test
* Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power*1: 150W@25°C
Impedance: 50Ω

[1] Derated linearly to 7.5W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.2
4~8	1.25
8~12.4	1.35
12.4~18	1.45

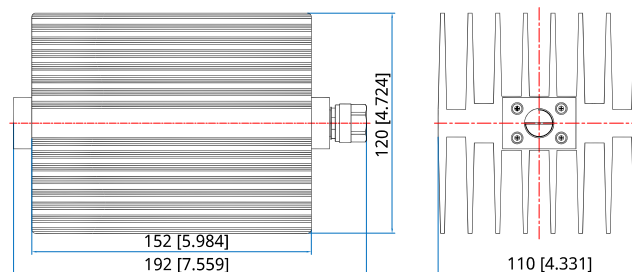
Mechanical

Size: 192*120*110mm
7.559*4.724*4.331in
Connector: N

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]

Tolerance: ±2mm [±0.08in]

How To Order

NCT18K15-X-Y
X: Frequency in GHz
Y: Connector type

Connector naming rules:

N - N Male
NF - N Female

Examples:

To order a termination, DC-18GHz, N male, specify
NCT18K15-18-N
Customization is available upon request.

NCT18K2

DC~18GHz, 200W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power^{*1}: 200W@25°C
Impedance: 50Ω

[1] Derated linearly to 10W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.2
4~8	1.25
8~12.4	1.35
12.4~18	1.4

Mechanical

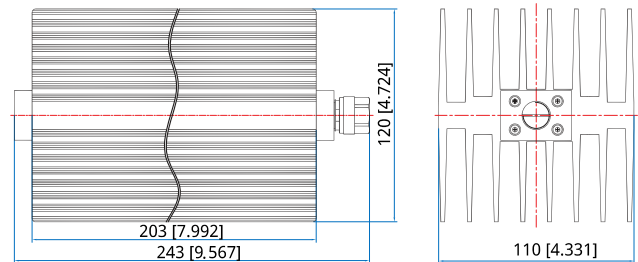
Size^{*2}: 203*110*120mm
7.992*4.331*4.724in
Connector: N Male

[2] Exclude connectors.

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]

Tolerance: ±1mm [±0.04in]

How To Order

NCT18K2-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N

Examples:

To order a termination, DC-18GHz, N male, specify

NCT18K2-18-N

Customization is available upon request.

NCT18K25

DC~18GHz, 250W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power*1: 250W@25°C
Impedance: 50Ω

[1] Derated linearly to 12.5W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.2
4~8	1.25
8~12.4	1.35
12.4~18	1.45

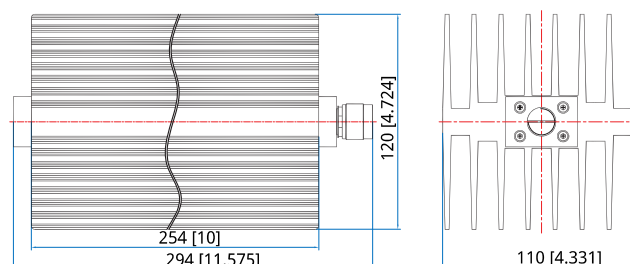
Mechanical

Size: 294*110*120mm
11.575*4.331*4.724in
Connector: N

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]

Tolerance: ±1mm [±0.04in]

How To Order

NCT18K25-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N Male

NF - N Female

Examples:

To order a termination, DC-18GHz, N male, specify

NCT18K25-18-N

Customization is available upon request.

NCT18K3

DC~18GHz, 300W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power^{*1}: 300W@25°C
Impedance: 50Ω

[1] Derated linearly to 15W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.2
4~8	1.25
8~12.4	1.35
12.4~18	1.45

Mechanical

Size^{*2}: 305*120*110mm
12.008*4.724*4.331in

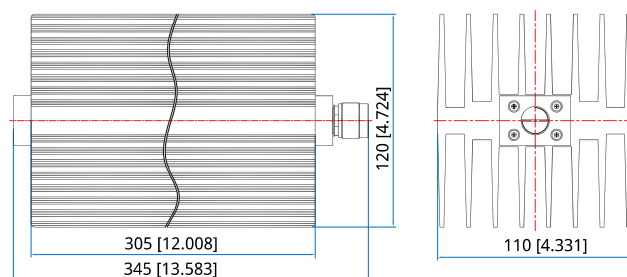
Connector: N

[2] Exclude connectors.

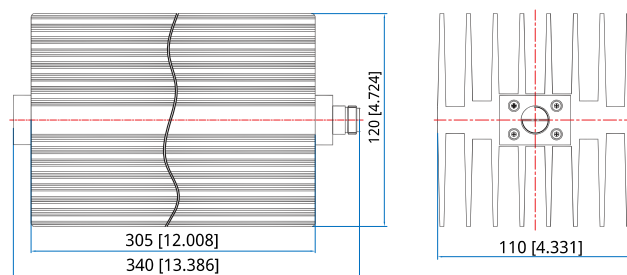
Environmental

Temperature: -55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]

Tolerance: ±3mm [±0.12in]

How To Order

NCT18K3-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N male (Outline A)

NF - N female (Outline B)

Examples:

To order a termination, DC-12.4GHz, N male, specify NCT18K3-12.4-N

Customization is available upon request.

NCT18K5

DC~18GHz, 500W

Features:

- * Low VSWR
- * Broadband

Applications:

- * Transmitters
- * Antennas
- * Laboratory Test
- * Impedance Matching



Electrical

Frequency Range: DC~18GHz
Average Power^{*1}: 500W@25°C
Impedance: 50Ω

[1] Derated linearly to 25W@120°C.

VSWR

Frequency (GHz)	VSWR (max.)
DC~4	1.2
4~8	1.25
8~12.4	1.35
12.4~18	1.6

Mechanical

Size^{*2}: 509*120*110mm
20.039*4.724*4.331in

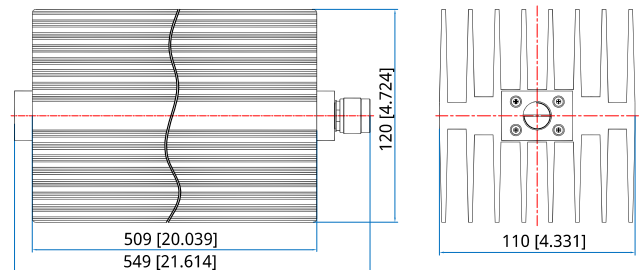
Connector: N

[2] Exclude connectors.

Environmental

Temperature: -55~+125°C

Outline Drawings



Unit: mm [in]

Tolerance: ±1mm [±0.04in]

How To Order

NCT18K5-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N male

NF - N female

Examples:

To order a termination, DC-12.4GHz, N male, specify NCT18K5-12.4-N

Customization is available upon request.

Connector Names

1	1.0mm (110GHz)	K	2.92mm (40GHz)
2	2.4mm (50GHz)	L	L27
3	3.5mm (33GHz)	M	MCX (6GHz)
4	4.3/10 (8GHz)	N	N (18GHz)
7	7/16 DIN (L29)	P	SMP (40GHz)
A	SSMA (40GHz)	Q	QMA
B	BNC (4GHz)	S	SMA (26.5GHz)
E	SC (11GHz in theory, Usually 6GHz)	T	TNC (18GHz)
G	Mini-SMP (mateable with GPPO & SSMP, 65GHz)	V	1.85mm (67GHz)
I	BMA (18GHz)	X	MMCX (40GHz)
J	APC-7 (7mm,18GHz)		

Gender

M: Male (Plug)

F: Female (Jack)

Multiple Connectors

Some parts have several connectors. Most parts have their default connector options. Abbreviation naming is applied for default connector options. In full naming, it is name-gender pairs. For example: “SM” stand for SMA Male connector, and “NF” means N Female connector.