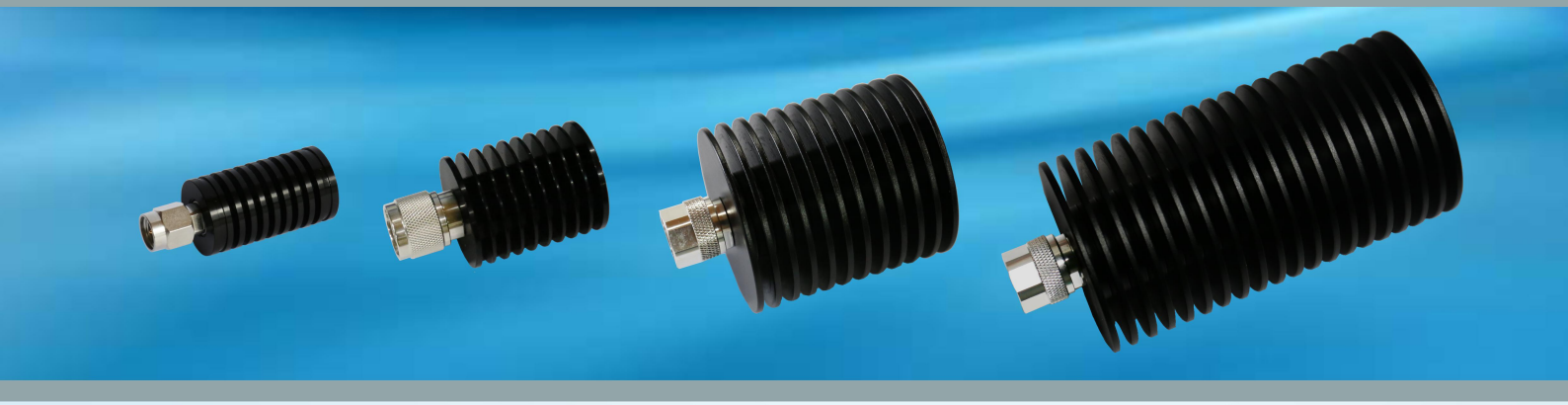
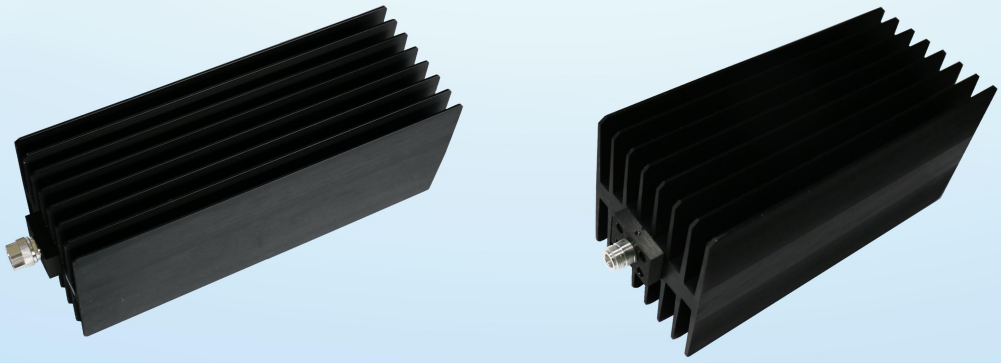
Terminations





2019

Qualwave Inc.

About Qualwave Inc.

Qualwave Inc. is the top designer and manufacturer of microwave and millimeter wave products. We supply both active and passive components in a wide frequency range from DC to 110GHz all over the world. We provide a series of standard products to meet the needs of most customers. Mean while we customize products according to special requirements.

Like the name, quality is one of the key success factors. Our products are designed and manufactured with the latest tools and the best quality materials. Our engineers are keeping quality in mind through designing, manufacturing and testing. We are proud that many clients rated five stars in their feedback for product quality.

Our team comprised of professional microwave and millimeter wave engineers and specialized support staff. We take customer's needs as the first priority, as the success of our customers is also our success. We optimized design and manufacture processes by adding more flexibility, which helps to decrease lead time. Our management and service are customer oriented, ensuring to response to customer as soon as possible.

Products

ATTENUATORS	CABLE ASSEMBLIES	COAXIAL ADAPTERS	CIRCULATORS
DC-BLOCKS	DETECTORS	FILTERS	FREQUENCY SOURCES
PHASE SHIFTERS	POWER DIVIDERS/COMBINERS	SWITCHES	TERMINATIONS
COUPLERS	ISOLATORS		

Address: No. 366, North Lakeside Road, Tianfu New Area, Chengdu, 610015, China
Tel: +86-28-6115-4929
E-mail: sales@qualwave.com

Table of Contents

QCT6701

DC~67GHz, 1W

Features:
* Low VSWR
* Broadband

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

Electrical

Frequency Range:	DC~67GHz
Average Power*1:	1W
VSWR:	1.3 max.
Impedance:	50Ω

[1] Derated linearly to 0.05W@120°C.

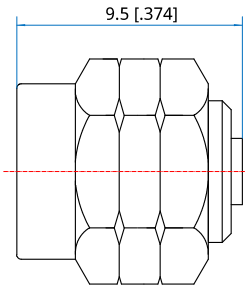
Mechanical

Length:	9.5mm 0.374in
Connector:	1.85mm male
Outer Conductor:	Passivated SUS303 stainless steel
Dielectric:	PEI
Inner Conductor:	Gold plated beryllium copper

Environmental

Temperature:	-55~+125°C

Outline Drawings



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

How To Order

QCT6701-X-Y

X: Frequency in GHz
Y: Connector type

Connector naming rules:
V - 1.85mm male

Examples:
To order a termination, DC-67GHz, 1.85mm male, specify QCT6701-67-V.

Customization is available upon request.

QCT5002

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

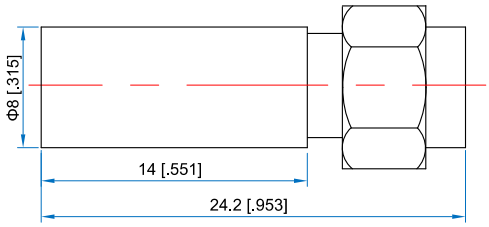
Size*2:	Φ8*24.2mm Φ0.315*0.953in
Size*3:	Φ8*22.3mm Φ0.315*0.878in
Weight:	5g
Connectors:	2.4mm
Housing:	Aluminum
Outer Conductor:	Gold plated brass or stainless steel
Male Inner Conductor:	Gold plated brass
Female Inner Conductor:	Gold plated beryllium copper

[2] 2.4mm male.
[3] 2.4mm female.

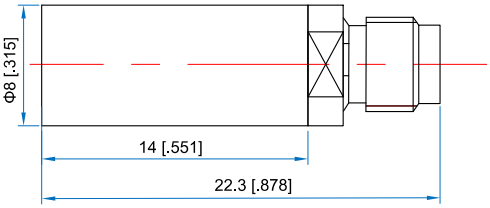
Environmental

Temperature:	-55~+85°C

Outline Drawings



Outline A



Outline B

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

How To Order

QCT5002-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 QCT5002-50-2.

Customization is available upon request.

QCT5005

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.

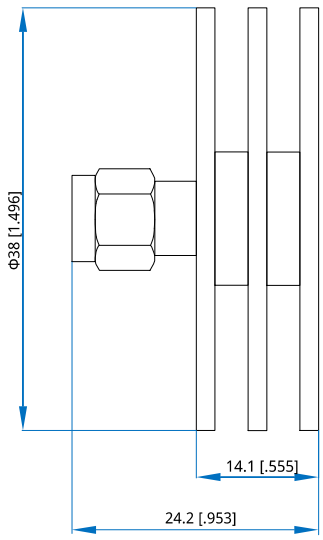
Mechanical

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

QCT5005-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 QCT5005-50-2.

Customization is available upon request.

QCT4002

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

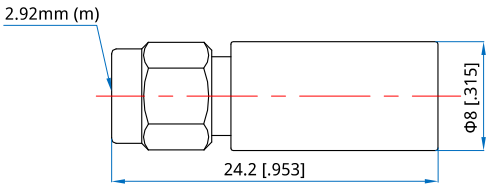
Size[*2]:	Φ8*24.2mm Φ0.315*0.953in
Size[*3]:	Φ8*22.2mm Φ0.315*0.874in
Weight:	5g
Connectors:	2.92mm
Housing:	Aluminum
Outer Conductor:	Gold Plated Brass or Stainless Steel
Male Inner Conductor:	Gold Plated Brass
Female Inner Conductor:	Gold Plated Beryllium Copper

[2] 2.92mm male.
[3] 2.92mm female.

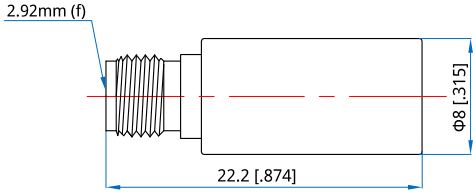
Environmental

Temperature:	-55~+125°C

Outline Drawings



Outline A



Outline B

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

How To Order

QCT4002-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 QCT4002-40-K.

Customization is available upon request.

QCT4005

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.

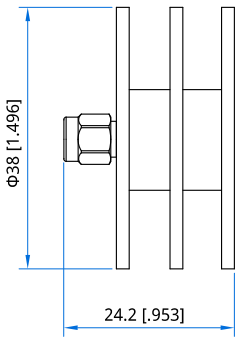
Mechanical

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

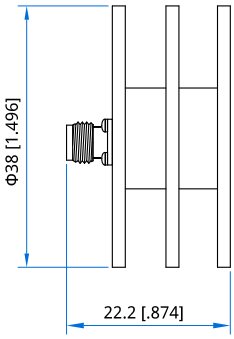
Environmental

Temperature:	-55~+85°C

Outline Drawings



Outline A



Outline B

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

How To Order

QCT4005-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 QCT4005-40-K.

Customization is available upon request.

QCT4010

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.

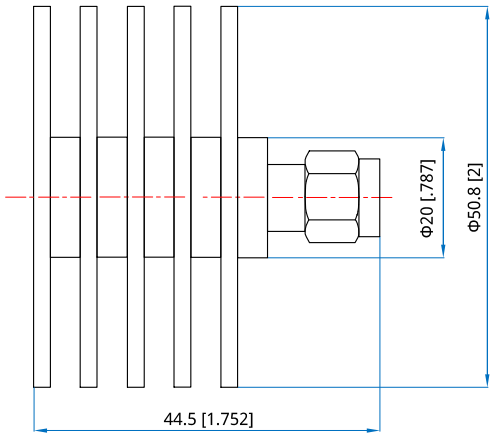
Mechanical

Connector:	2.92mm
Size:	Φ50.8*44.5mm Φ2*1.752in
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: ±0.5mm [±0.02in]

How To Order

QCT4010-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 QCT4010-40-K.

Customization is available upon request.

QCT4020

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.

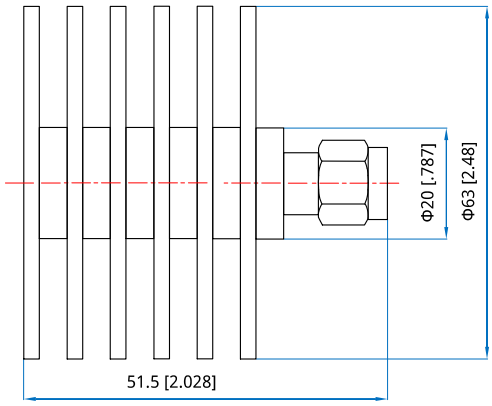
Mechanical

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

QCT4020-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 QCT4020-40-K.

Customization is available upon request.

QCT4050

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.

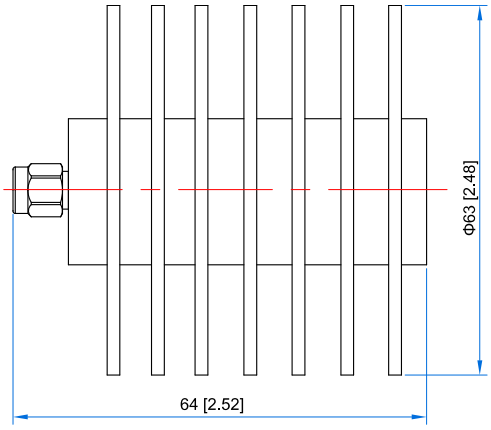
Mechanical

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

QCT4050-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 QCT4050-40-K.

Customization is available upon request.

QCT2602

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.

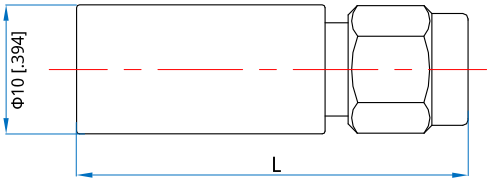
Mechanical

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

QCT2602-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 QCT2602-26.5-K.

Customization is available upon request.

QCT2605

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.

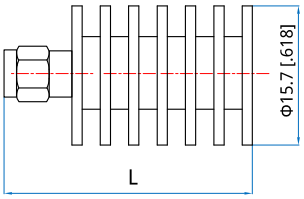
Mechanical

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

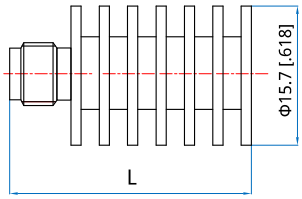
Environmental

Temperature:	-55~+85°C

Outline Drawings



Outline A



Outline B

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

QCT2605-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 QCT2605-26.5-3.

Customization is available upon request.

QCT2610

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.

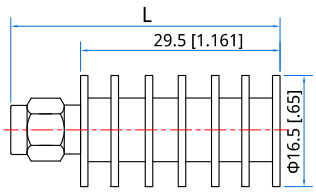
Mechanical

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

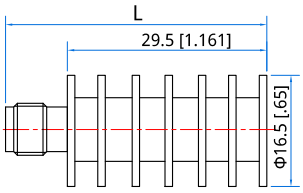
Environmental

Temperature:	-55~+85°C

Outline Drawings



Outline A



Outline B

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

QCT2610-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 QCT2610-26.5-S.

Customization is available upon request.

QCT2625

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.

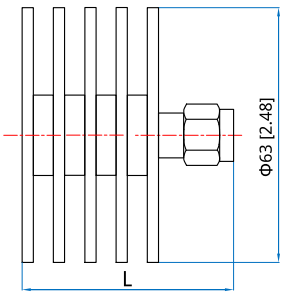
Mechanical

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

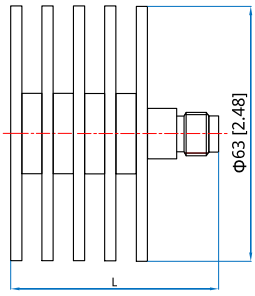
Environmental

Temperature:	-55~+85°C

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

QCT2625-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 QCT2625-26.5-S.

Customization is available upon request.

QCT2650

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.

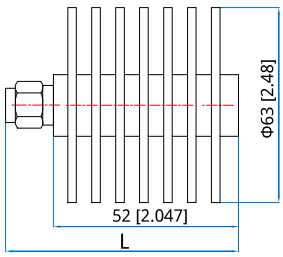
Mechanical

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

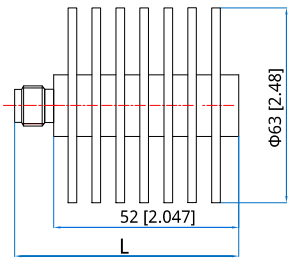
Environmental

Temperature:	-55~+85°C

Outline Drawings



Outline A



Outline B

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

QCT2650-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 QCT2650-26.5-S.

Customization is available upon request.

QCT26K1

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

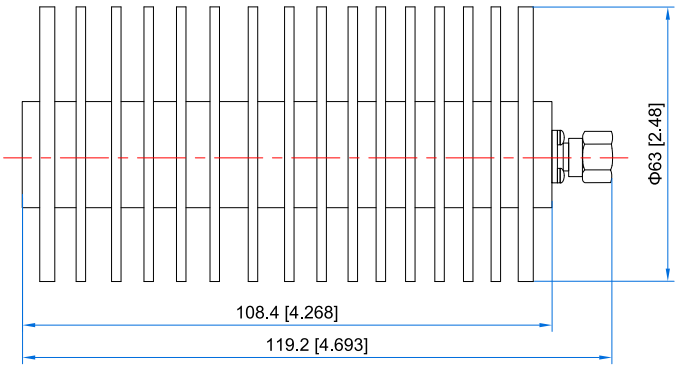
Size*2:	Φ63*108.4mm
	Φ2.48*4.268in
Weight:	400g
Connectors:	SMA
Housing:	Aluminum
Outer Conductor:	Gold plated brass
Male Inner Conductor:	Gold plated brass
Female Inner Conductor:	Gold plated beryllium copper

[2] Exclude connectors.

Environmental

Temperature:	-55~+85°C

Outline Drawings



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

How To Order

QCT26K1-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 QCT26K1-26.5-S.

Customization is available upon request.

QCT1801

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.

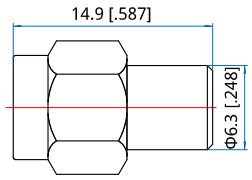
Mechanical

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

Outline Drawings



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

How To Order

QCT1801-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 QCT1801-18-S.

Customization is available upon request.

QCT1802

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

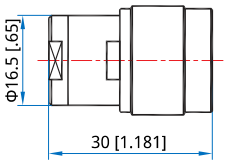
Mechanical

Connectors:	N, SMA

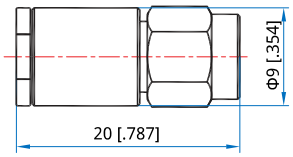
Environmental

Temperature:	-55~+125°C

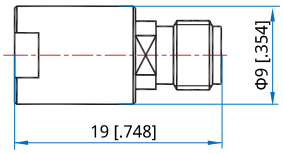
Outline Drawings



Outline A



Outline B



Outline C

Unit: mm [in]
Tolerance: ±1mm [±0.04in]

How To Order

QCT1802-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 QCT1802-12.4-S.

Customization is available upon request.

QCT1805

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

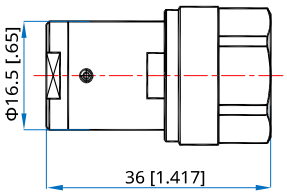
Mechanical

Connectors:	N, SMA

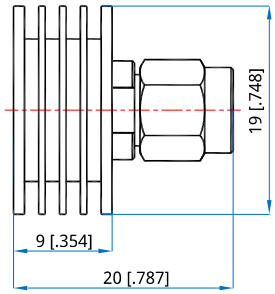
Environmental

Temperature:	-55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]
Tolerance: ±1mm [±0.04in]

How To Order

QCT1805-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 QCT1805-12.4-S.

Customization is available upon request.

QCT1810

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

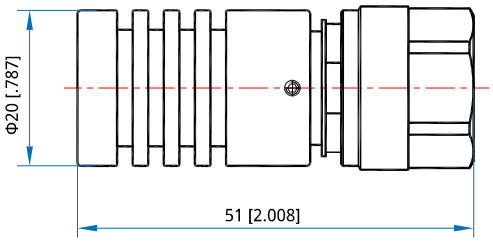
Connectors:	N, SMA

.

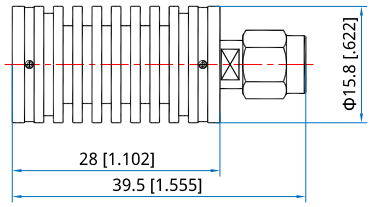
Environmental

Temperature:	-55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]
Tolerance: ±1.6mm [±0.06in]

How To Order

QCT1810-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 QCT1810-12.4-N.

Customization is available upon request.

QCT1820

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

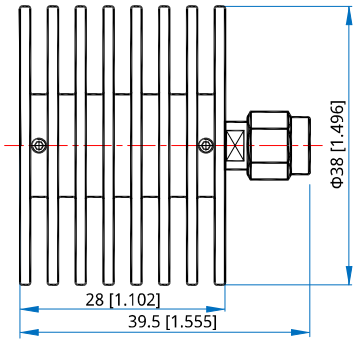
Size*2:	Φ38*28mm
	Φ1.496*1.102in
Connector:	SMA, N

[2] Exclude connectors.

Environmental

Temperature:	-55~+125°C

Outline Drawings



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

How To Order

QCT1820-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 QCT1820-18-S.

Customization is available upon request.

QCT1825

DC~18GHz, 25W

Features:
* Low VSWR
* Broadband

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

Electrical

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

[1] Derated linearly to 1.25W@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

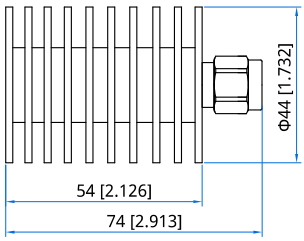
Mechanical

Connectors:	N, SMA

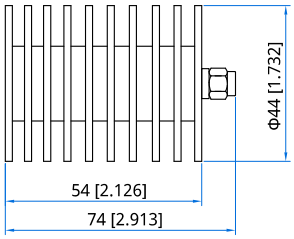
Environmental

Temperature:	-55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]
Tolerance: ±1.5mm [±0.06in]

How To Order

QCT1825-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~18GHz, SMA male, specify QCT1825-18-S.

Customization is available upon request.

QCT1850

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

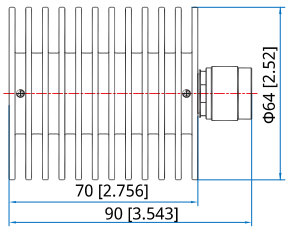
Size[*2]:	Φ64*70mm
	Φ2.52*2.756in
Connector:	N, SMA

[2] Exclude connectors.

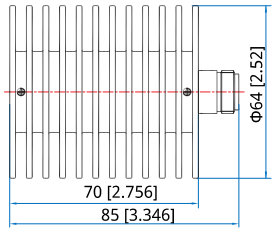
Environmental

Temperature:	-55~+125°C

Outline Drawings



Outline A



Outline B

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

How To Order

QCT1850-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 QCT1850-12.4-N.

Customization is available upon request.

QCT18K1

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

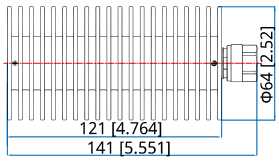
Size[*2]:	Φ64*121mm
	Φ2.52*4.764in
Connector:	N, SMA

[2] Exclude connectors.

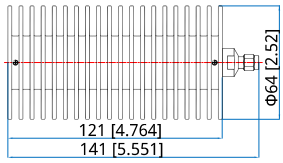
Environmental

Temperature:	-55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]
Tolerance: ±1.5mm [±0.06in]

How To Order

QCT18K1-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 QCT18K1-4-N.

Customization is available upon request.

QCT18K15

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

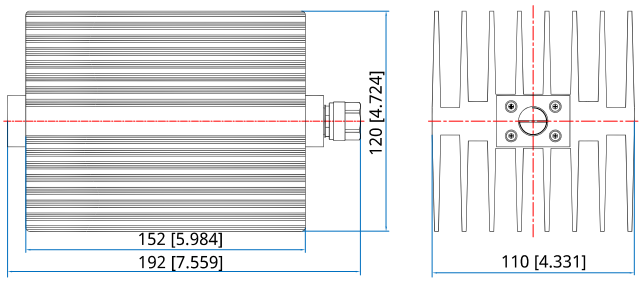
Mechanical

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

QCT18K15-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 QCT18K15-18-N

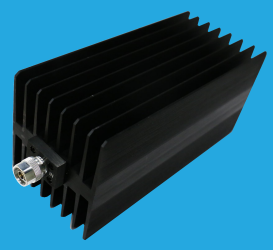
Customization is available upon request.

QCT18K2

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

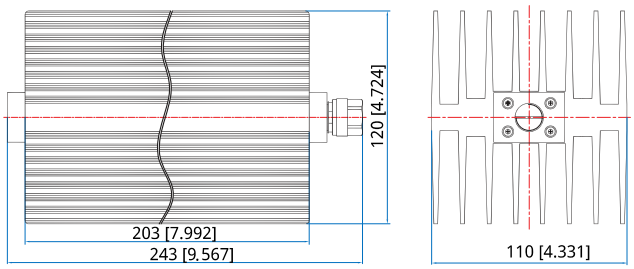
Size*2:	203*110*120mm
	7.992*4.331*4.724in
Connector:	N Male

[2] Exclude connectors.

Environmental

Temperature:	-55~+125°C

Outline Drawings



Unit: mm [in]
Tolerance: ±1mm [±0.04in]

How To Order

QCT18K2-X-Y

X: Frequency in GHz
Y: Connector type

Connector naming rules:
N - N

Examples:
To order a termination, DC-18GHz, N male, specify QCT18K2-18-N

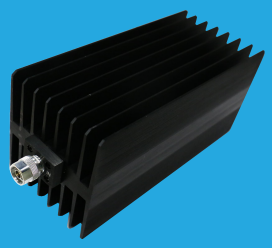
Customization is available upon request.

QCT18K25

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

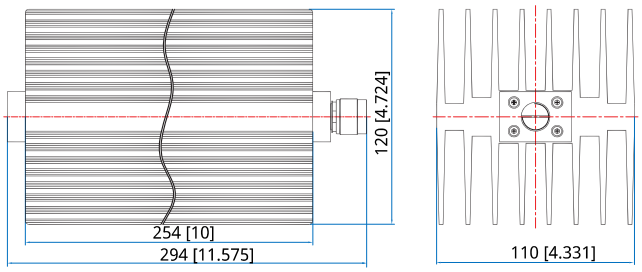
Mechanical

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

QCT18K25-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 QCT18K25-18-N

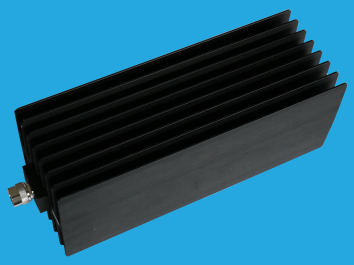
Customization is available upon request.

QCT18K3

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

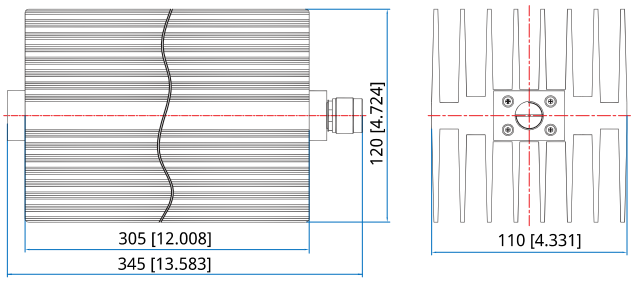
Size*2:	305*120*110mm
	12.008*4.724*4.331in
Connector:	N

[2] Exclude connectors.

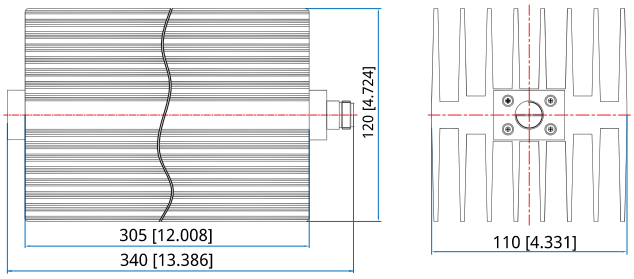
Environmental

Temperature:	-55~+125°C

Outline Drawings



Outline A



Outline B

Unit: mm [in]
Tolerance: ±3mm [±0.12in]

How To Order

QCT18K3-X-Y

X: Frequency in GHz
Y: Connector type

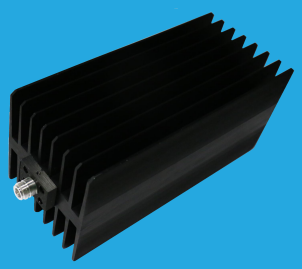
Connector naming rules:
N - N male (Outline A)
NF - N female (Outline B)

Examples:
To order a termination, DC-12.4GHz, N male, specify
QCT18K3-12.4-N

Customization is available upon request.

QCT18K5

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

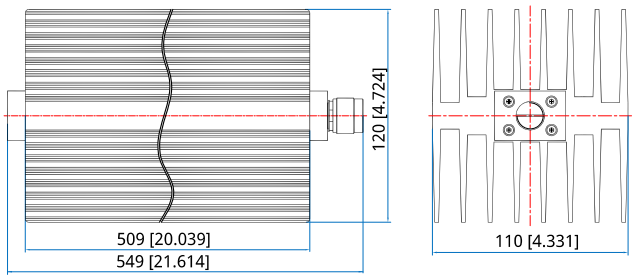
Size*2:	509*120*110mm
	20.039*4.724*4.331in
Connector:	N

[2] Exclude connectors.

Environmental

Temperature:	-55~+125°C

Outline Drawings



Unit: mm [in]
Tolerance: ±1mm [±0.04in]

How To Order

QCT18K5-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 QCT18K5-12.4-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.

Broad Band & High Power

Microwave & Millimeter Wave Components

Qualwave Inc.

No. 366, North Lakeside Road,
Tianfu New Area, Chengdu,
610015, China

Phone: +86-28-6115-4929
E-mail: sales@qualwave.com
Web: www.qualwave.com