

## QCT1850 DC~18GHz, 50W

Features:  
\* Low VSWR  
\* Broadband

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



### Electrical

Frequency Range: DC~18GHz  
DC~6GHz (BNC, 4.3-10)  
Average Power\*1: 50W@25°C  
Impedance: 50Ω

[1] Derated linearly to 2.5W@120°C.

### Peak Power

Peak Power (W)	Pulse Width (μs)	Duty Cycle (%)	Applicable Scope
500	5	5	@SMA, BNC DC~18GHz
5000		0.5	@N, TNC DC~12.4GHz
1000		2.5	@N, TNC 18GHz

### VSWR

Frequency (GHz)	VSWR (max.)	VSWR(SMA male)(max.)	VSWR(N male)(max.)	VSWR(BNC male)(max.)	VSWR(4.3-10 male)(max.)
DC~4	1.20	1.15	1.15	1.20	1.2
DC~6	-	-	1.18	1.25	1.25
DC~8	1.25	1.20	1.20	-	-
DC~12.4	1.35	1.25	1.25	-	-
DC~18	1.40	1.30	-	-	-

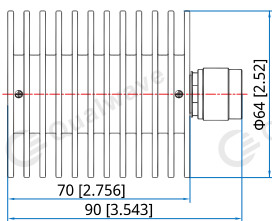
### Mechanical

Connector: N, SMA, TNC, BNC, 4.3-10

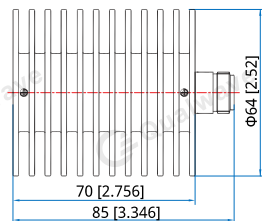
### Environmental

Temperature: -55~+125°C

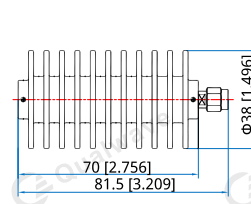
### Outline Drawings



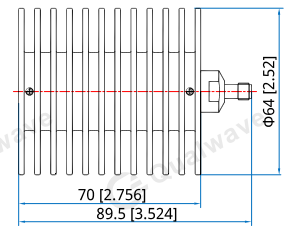
Outline A



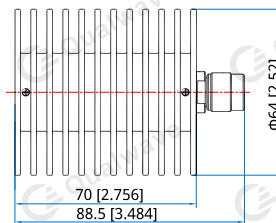
Outline B



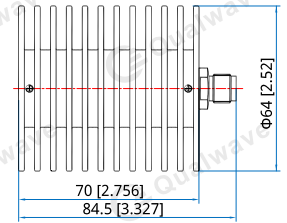
Outline C



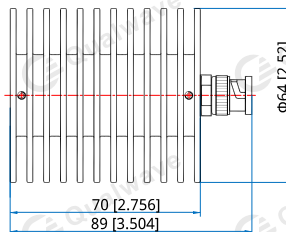
Outline D



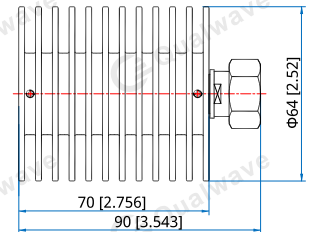
Outline E



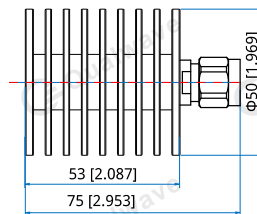
Outline F



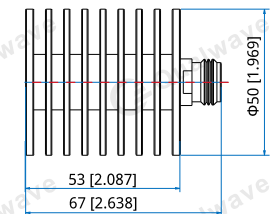
Outline G



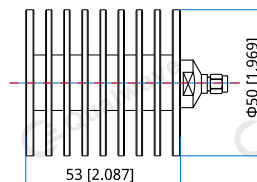
Outline H



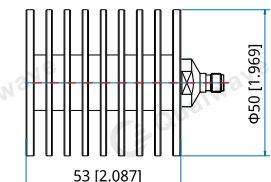
Outline I



Outline J



Outline K



Outline L

Unit: mm [in]  
 Tolerance:  $\pm 0.5\text{mm}$  [ $\pm 0.02\text{in}$ ]

### How To Order

#### QCT1850-X-Y

X: Frequency in GHz

Y: Connector type

Connector naming rules:

N - N male (Outline A: DC~18GHz, Outline I: DC~12.4GHz)

NF - N female (Outline B: DC~18GHz, Outline J: DC~12.4GHz)

S - SMA male (Outline C: DC~18GHz, Outline K: DC~12.4GHz)

SF - SMA female (Outline D: DC~18GHz, Outline L: DC~12.4GHz)

T - TNC Male (Outline E)

TF - TNC Female (Outline F)

B - BNC Male (Outline G)

BF - BNC Female

4 - 4.3-10 Male (Outline H)

Examples:

To order a termination, DC~12.4GHz, N male, specify  
 QCT1850-12.4-N.

Customization is available upon request.

## Coaxial Terminations

### Typical Performance Curves

#### N (DC~12.4GHz)

