

FCT1850

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	-	-	-

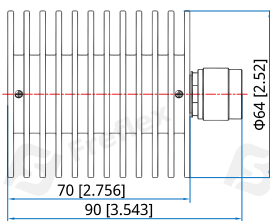
Mechanical

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

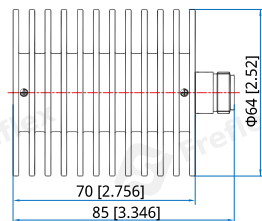
Environmental

Temperature: -55~+125°C

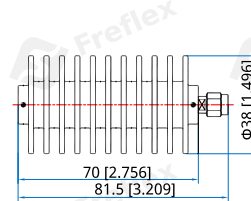
Outline Drawings



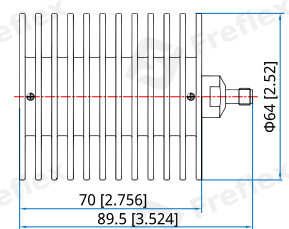
Outline A



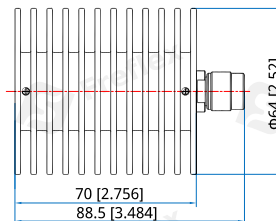
Outline B



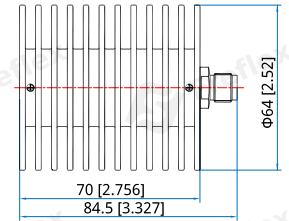
Outline C



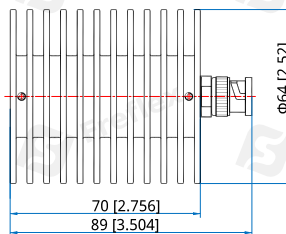
Outline D



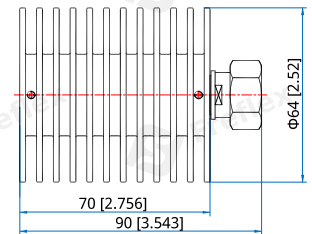
Outline E



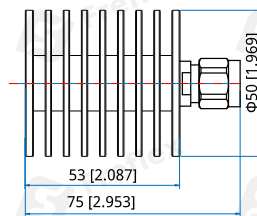
Outline F



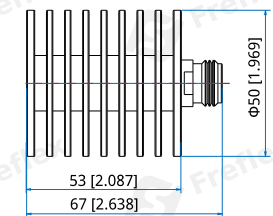
Outline G



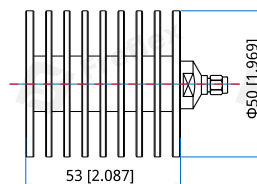
Outline H



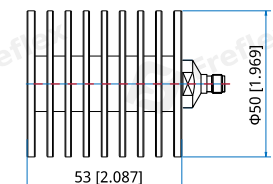
Outline I



Outline J



Outline K



Outline L

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

How To Order

FCT1850-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
 FCT1850-12.4-N.

Customization is available upon request.

Coaxial Terminations

Typical Performance Curves N (DC~12.4GHz)

