Fixed Attenuators

NFA18K1

DC~18GHz, 100W

Features:
* Low VSWR
* High Attenuation Flatness

Applications:
* Wireless
* Transmitter
* Laboratory Test
* Radar

Electrical

Frequency:	DC~18GHz
Attenuation:	3, 6~60dB
Impedance:	50Ω
Average Power[*1]:	100W@25°C max.

[1] Derated linearly to 5W@120°C.

Peak Power

Peak Power (W)	Pulse Width (μS)	Duty Cycle (%)	Applicable Scope
1000	5	7.5	@SMA DC~12.4GHz
500		10	@SMA 18GHz
5000		1	@N DC~12.4GHz 7/16(DIN),4.3/10
1000		5	@N 18GHz

Mechanical

RF Connectors:	N, SMA, 7/16(DIN),4.3/10

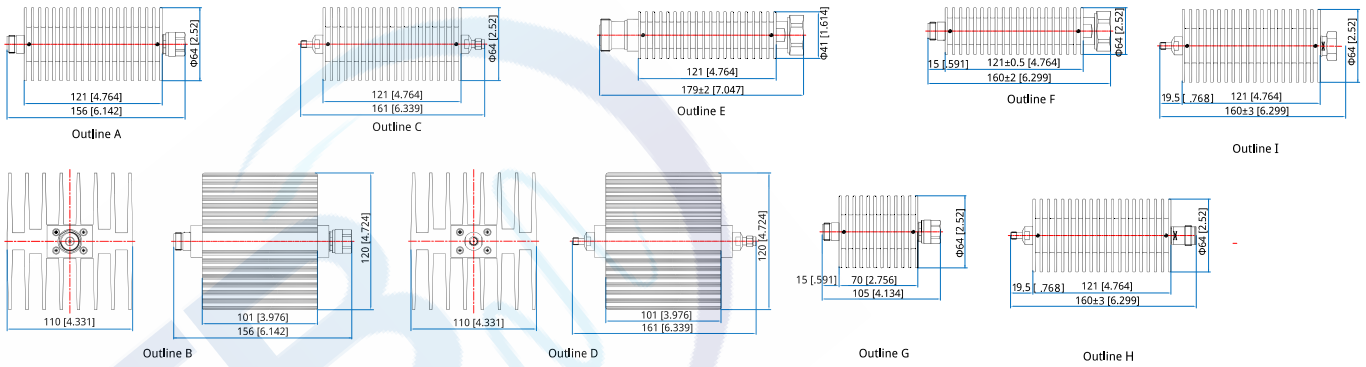
Environmental

Temperature:	-55~+125°C

Attenuation Accuracy and VSWR

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)						VSWR (max.)
	3	6~10	11~20	21~30	31~40	41~60	
DC~4	0.4	0.7	0.7	0.8	0.8	0.9-1.0	1.2
DC~8	0.5	0.8	0.8	0.9	0.9	1.0	1.25
DC~12.4	0.6	0.9	0.9	1.0	1.0	1.1	1.35
DC~18	0.8	1.5	1.5	1.3	1.3	1.4	1.45

Outline Drawings



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

How To Order

NFA18K1-X-Y-Z

X: Frequency in GHz
Y: Attenuation in dB
Z: Connector type

Connector and shape naming rules:
N1 - Cylinder, N (Outline A, Outline G [3dB])
N2 - Cuboid, N (Outline B)
S1 - Cylinder, SMA (Outline C)
S2 - Cuboid, SMA (Outline D)
7 - 7/16(DIN) (Outline E)
7NF - In: 7/16(DIN) Male, Out: N Female (Outline F)
4FSF1- In: 4.3/10 Female, Out: SMA Female, Cylinder(Outline H)
4SF1- In: 4.3/10 Male, Out: SMA Female, Cylinder(Outline I)

Examples:
To order an attenuator, DC-12.4GHz, N male to N female, 9dB attenuation, Cuboid, specify NFA18K1-12.4-9-N2.