

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.

Mechanical

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

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 |

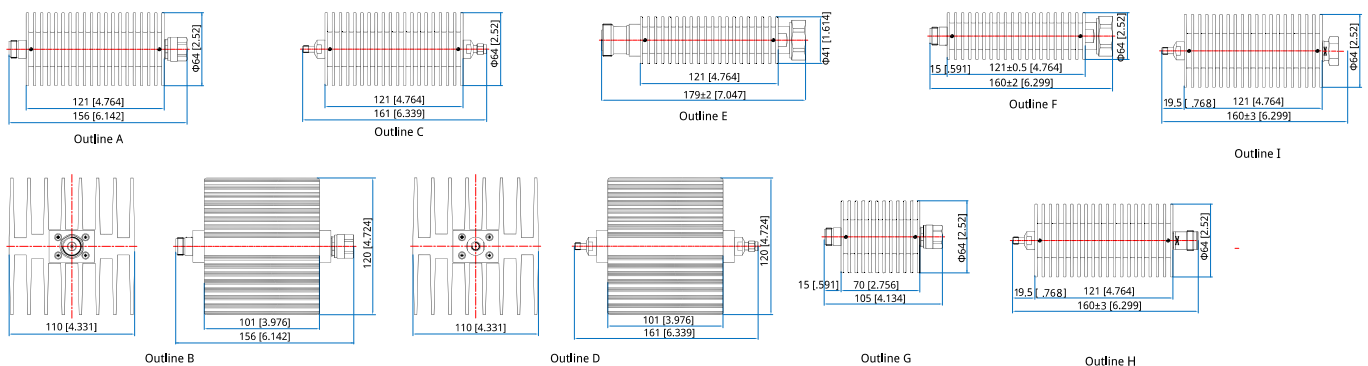
Environmental

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.