

NFA1820

DC~18GHz, 20W

- | | |
|---|---|
| Features: * Low VSWR * High Attenuation Flatness | Applications: * Wireless * Transmitter * Laboratory Test * Radar |
|---|---|

Electrical

Frequency: DC~18GHz
 Attenuation: 1~60dB
 Impedance: 50Ω
 Average Power*1: 20W@25°C max.

[1] Derated linearly to 1W@120°C.

Mechanical

RF Connectors: SMA, N

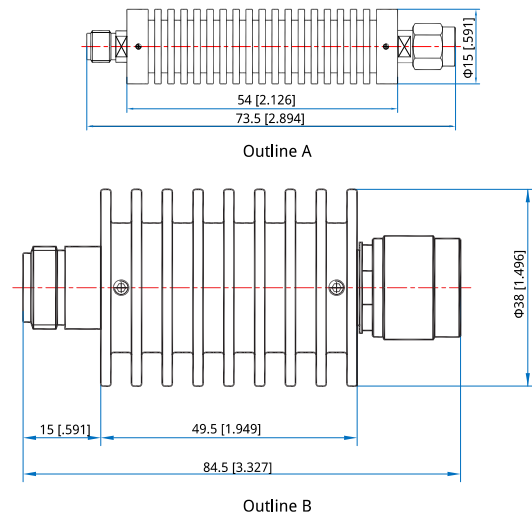
Environmental

Temperature: -55~+125°C

Peak Power

| Peak Power (W) | Pulse Width (μS) | Duty Cycle (%) | Applicable Scope |
|----------------|------------------|----------------|------------------|
| 500 | 5 | 2 | @SMA,DC~18GHz |
| 5000 | | 1 | @N,DC~12.4GHz |
| 1000 | | 1 | @N,18GHz |

Outline Drawings



Unit: mm [in]
 Tolerance: ±2mm [±0.08in]

Attenuation Accuracy and VSWR (SMA)

| Frequency (GHz) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | | | VSWR (max.) |
|-----------------|---|-------|-------|-------|-------|-------|-------------|
| | 1~10 | 11~20 | 21~30 | 31~40 | 41~50 | 51~60 | |
| DC~4 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.2 |
| DC~8 | 0.5 | 0.6 | 0.8 | 0.8 | 0.8 | 1.0 | 1.25 |
| DC~12.4 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.3 |
| DC~18 | 0.6 | 0.8 | 1.0 | 1.2 | 1.3 | 1.5 | 1.35 |

Attenuation Accuracy and VSWR (N)

| Frequency (GHz) | Attenuation Accuracy (±dB) vs. Attenuation (dB) | | | | VSWR (max.) |
|-----------------|---|-------|-------|-------|-------------|
| | 1~10 | 11~20 | 21~30 | 31~40 | |
| DC~4 | 0.4 | 0.5 | 0.6 | 0.7 | 1.2 |
| DC~8 | 0.5 | 0.6 | 0.8 | 0.8 | 1.25 |
| DC~12.4 | 0.6 | 0.7 | 0.8 | 0.9 | 1.35 |
| DC~18 | 0.6 | 0.8 | 1.0 | 1.2 | 1.45 |

How To Order

NFA1820-X-Y-Z

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

Connector naming rules:
 S - SMA (Outline A)
 N - N (Outline B)

Examples:

To order an attenuator, DC-18GHz, N male to N female, 3dB attenuation, specify NFA1820-18-3-N.