

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

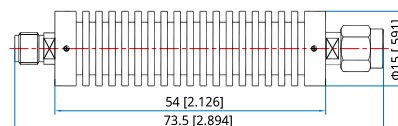
Environmental

Temperature: -55~+125°C

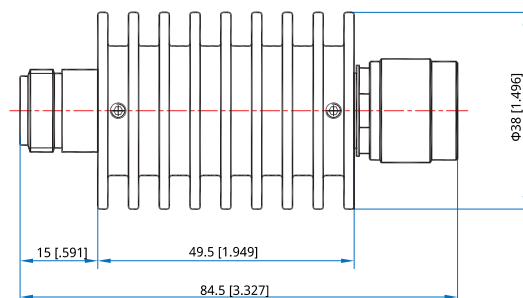
Peak Power

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



Outline A



Outline B

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.