

# QFA1820

## 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.

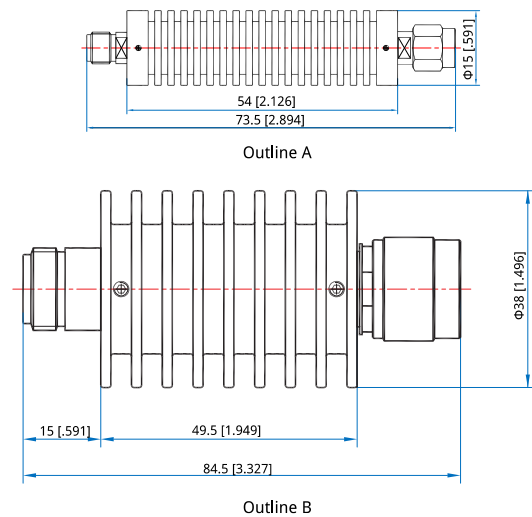
**Mechanical**

RF Connectors: SMA, N

**Environmental**

Temperature: -55~+125°C

**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**

**QFA1820-X-Y-Z**

X: Frequency in GHz

Y: Attenuation in dB

Z: Connector type

**Examples:**

To order an attenuator, DC-18GHz, N male to N female, 3dB attenuation, specify QFA1820-18-3-N.

**Connector naming rules:**

S - SMA (Outline A)

N - N (Outline B)