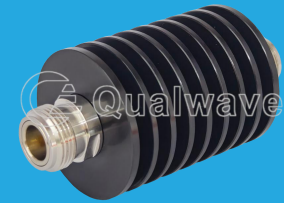


QFA1830

DC~18GHz, 30W

- Features:
- * Low VSWR
 - * High Attenuation Flatness

- Applications:
- * Wireless
 - * Transmitter
 - * Laboratory Test
 - * Radar



Electrical

Frequency:	DC~18GHz
Attenuation:	1~60dB
Impedance:	50Ω
Average Power*1:	30W@25°C max.

[1] Derated linearly to 1.5W@120°C.

Mechanical

RF Connectors*2: SMA, N

[2] Female connectors can be replaced with male connectors on request.

Environmental

Temperature: -55~+125°C

Peak Power

Peak Power (W)	Pulse Width (μS)	Duty Cycle (%)	Applicable Scope
500	5	3	@SMA, DC~18GHz
5000		0.3	@N, DC~12.4GHz
1000		0.15	@N, 18GHz

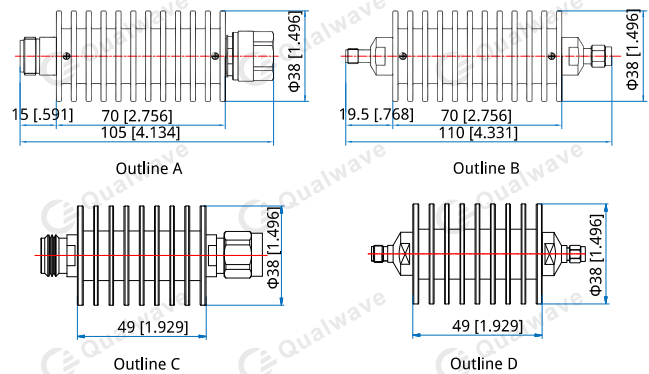
Length (mm/in)

Attenuation (dB)	Frequency (GHz)	N
1~10, 15, 20, 30, 40, 50, 60	DC~4GHz	49 [1.929]
1~10, 15, 20, 30, 40, 50, 60	DC~8GHz	49 [1.929]
1~10, 15, 20, 30, 40	DC~12.4GHz	49 [1.929]
1~10, 15, 20, 30, 40	DC~18GHz	70 [2.756]

Length (mm/in)

Attenuation (dB)	Frequency (GHz)	SMA
1~10, 15, 20, 30	DC~4GHz	49 [1.929]
1~10, 15, 20, 30	DC~8GHz	49 [1.929]
1~10, 15, 20	DC~12.4GHz	49 [1.929]
1~10, 15, 20, 30, 40	DC~18GHz	70 [2.756]

Outline Drawings



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

How To Order

QFA1830-X-Y-Z

X: Frequency in GHz

Y: Attenuation in dB

Z: Connector type

Connector naming rules:

N - N (Outline A, C)

S - SMA (Outline B, D)

Examples:

To order an attenuator, DC-18GHz, N male to N female, 3dB attenuation, specify QFA1830-18-3-N.

Attenuation Accuracy and VSWR (N)

Frequency (GHz)	Attenuation Accuracy (\pm dB) vs. Attenuation (dB)						VSWR (max.)
	1~10	11~20	21~30	40	50	60	
DC~4	0.4	0.5	0.6	0.7	1.4	1.4	1.2
DC~8	0.5	0.6	0.8	0.8	1.5	1.5	1.25
DC~12.4	0.6	0.7	0.8	0.9	/	/	1.35
DC~18	0.8	0.9	1.2	1.5	/	/	1.45

Attenuation Accuracy and VSWR (SMA)

Frequency (GHz)	Attenuation Accuracy (\pm dB) vs. Attenuation (dB)				VSWR (max.)
	1~10	11~20	21~30	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	0.8	0.9	1.2	1.5	1.45

**Typical Performance Curves
N (DC~12.4GHz)**
