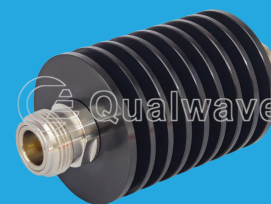


QFA1830

DC~18GHz, 30W

Features:
 * Low VSWR
 * High Attenuation Flatness

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar



Electrical

Frequency: DC~18GHz
 Attenuation: 1~40dB
 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.

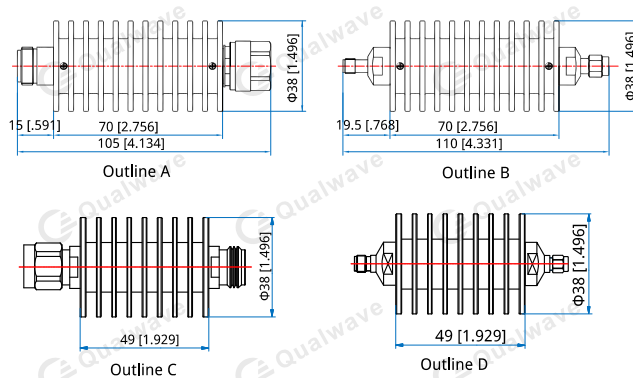
Environmental

Temperature: -55~+125°C

Peak Power

Peak Power (W)	Pulse Width (μS)	Duty Cycle (%)	Applicable Scope
500	5	6	@SMA,DC~18GHz
5000		0.15	@N,DC~12.4GHz
1000		0.15	@N,18GHz

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.

Length (mm/in)

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

Attenuation Accuracy and VSWR

Frequency (GHz)	Attenuation Accuracy (\pm 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	0.8	0.9	1.2	1.5	1.45

Typical Performance Curves

N (DC~12.4GHz)

