



WFA1830

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

Size*2: Φ38*105mm
 Φ1.496*4.134in
 Size*3: Φ38*110mm
 Φ1.496*4.331in
 RF Connectors*2: N Male, N Female
 RF Connectors*3: SMA Male, SMA Female
 [2] N connectors.
 [3] SMA connectors.

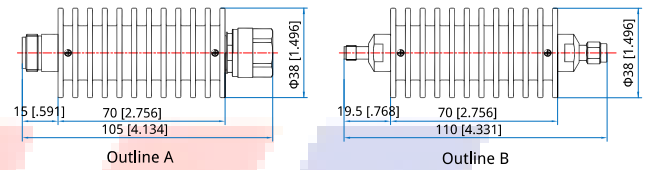
Environmental

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

WFA1830-X-Y-Z

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

Connector naming rules:

N - N (Outline A)
 S - SMA (Outline B)

Examples:

To order an attenuator, DC-18GHz, N male to N female, 3dB attenuation, specify WFA1830-18-3-N.

Attenuation Accuracy and VSWR

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	0.8	0.9	1.2	1.5	1.45