



WFA1820

DC~18GHz, 20W

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|---|---|
| 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

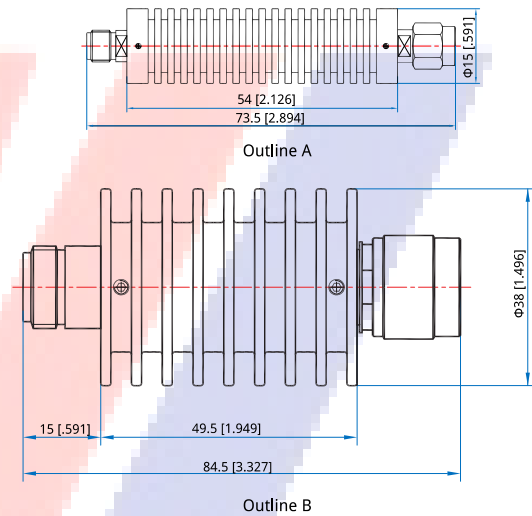
Environmental

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



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



HowTo Order

WFA1820-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 WFA1820-18-3-N.

