

# QFA18K6

## DC~18GHz, 600W

Features:  
 \* Low VSWR  
 \* High Attenuation Flatness

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

### Electrical

Frequency:	DC~18GHz
Attenuation:	3, 6, 10~60dB
Impedance:	50Ω
Average Power*1:	600W@25°C max.
Peak Power:	5KW (5μS pulse width, 6% duty cycle) @DC~12.4GHz 1KW (5μS pulse width, 5% duty cycle) @18GHz

[1] Derated linearly to 30W@120°C.

### Mechanical

RF Connectors: N Male, N Female

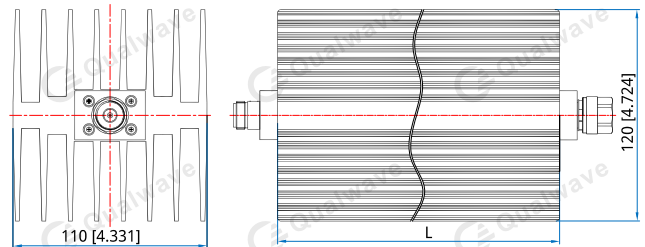
### Environmental

Temperature: -55~+125°C

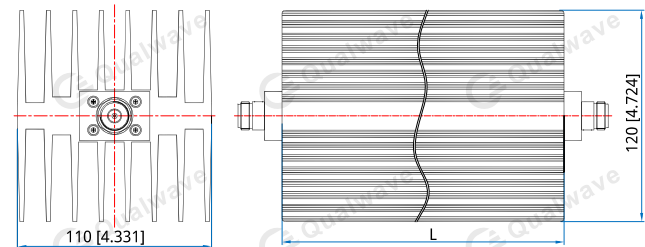
### Length (mm/in)

Attenuation (dB)	L (mm [in])
3	305 [12.008]
6	407 [16.024]
10~60	509 [20.039]

### Outline Drawings



Outline A



Outline B

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

### Attenuation Accuracy and VSWR

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)								VSWR (max.)
	3	6	10	20	30	40	50	60	
DC~4	0/+2	-1/+2.5	-0.6/+1.5	2.0	1.2	1.0	1.0	1.0	1.25
DC~8	0/+4	-1/+5.0	-0.5/+2.0	3.0	2.0	1.5	1.1	1.1	1.30
DC~12.4	0/+7	-1/8.5	3.0	4.0	3.0	1.5	1.2	1.2	1.35
DC~18	0/+10	-1/12.0	7.0	6.0	4.0	2.0	1.5	1.5	1.50

### How To Order

#### QFA18K6-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, 50dB attenuation, specify QFA18K6-18-50-N.

### Connector naming rules:

N - N Male to N Female (Outline A: 3, 6, 10~60dB)  
 NFNF - N Female to N Female (Outline B: 10~60dB)