

# 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, 30% duty cycle) @18GHz

[1] Derated linearly to 30W@120°C.

**Mechanical**

RF Connectors: N Male, N Female

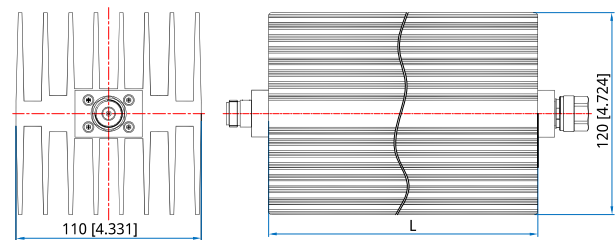
**Environmental**

Temperature: -55~+125°C

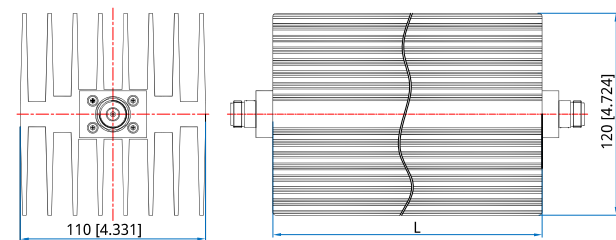
**Length (mm/in)**

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/+1.5	-0.6/+1.5	1.2	1.0	1.0	1.0	1.0	1.25
DC~8	-	-	-0.5/+2.0	2.0	1.1	1.1	1.1	1.1	1.30
DC~12.4	-	-	3.0	2.0	-1.5/+2.0	1.2	1.2	1.2	1.35
DC~18	-	-	6.0	5.0	-2.0/+6.0	2	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)