

# QFA1810

## DC~18GHz, 10W

Features:  
 \* Low VSWR  
 \* High Attenuation Flatness

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



### Electrical

Frequency: DC~18GHz  
 Attenuation: 1~40dB  
 Impedance: 50Ω  
 Average Power\*1: 10W@25°C max.

[1] Derated linearly to 0.5W@120°C.

### Mechanical

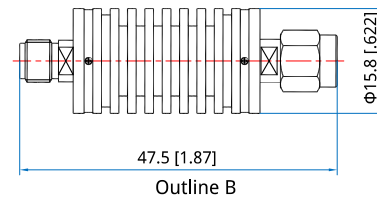
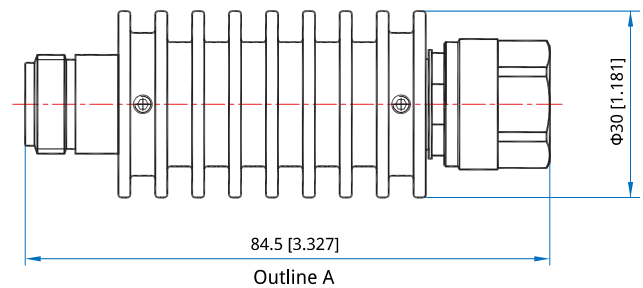
Size\*2: Φ30\*84.5mm  
 Φ1.181\*3.327in  
 Size\*3: Φ15.8\*47.5mm  
 Φ0.622\*1.87in  
 RF Connectors\*2: N Male, N Female  
 RF Connector\*3: SMA Male, SMA Female

[2] N connectors  
 [3] SMA connectors

### Environmental

Temperature: -55~+125°C

### Outline Drawings



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

### 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
4~8	0.5	0.6	0.8	0.8	1.25
8~12.4	0.6	0.7	0.8	0.9	1.35
12.4~18	0.8	0.9	1.0	1.2	1.45

### How To Order

#### QFA1810-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 QFA1810-18-3-N.