

# QFA1802

## DC~18GHz, 2W

Features:  
 \* Low VSWR  
 \* High Attenuation Flatness

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



### Electrical

Frequency: DC~18GHz (SMA, N, TNC)  
 DC~6GHz (BNC)  
 Attenuation: 1~10, 20, 30, 40, 50, 60dB  
 Impedance: 50Ω  
 Average Power\*1: 2W@25°C max.

[1] Derated linearly to 0.1W@120°C.

### Mechanical

RF Connectors: SMA, N, TNC, BNC

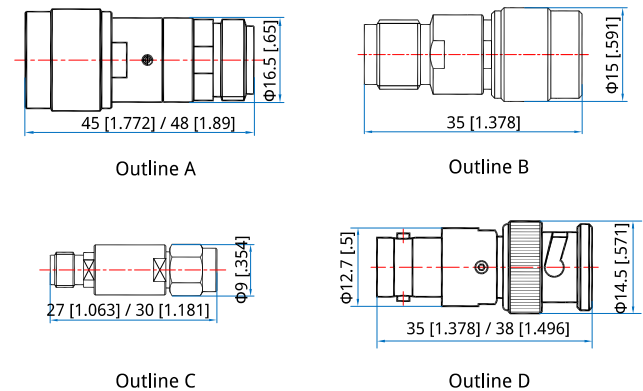
### Environmental

Temperature: -55~+125°C

### Length (mm/in)

Attenuation (dB)	SMA	N	BNC
1~10, 20, 30	27 [1.063]	45 [1.772]	35 [1.378]
40, 50, 60	30 [1.181]	48 [1.89]	38 [1.496]

### Outline Drawings



Unit: mm [in]  
 Tolerance:  $\pm 2\text{mm}$  [ $\pm 0.08\text{in}$ ]

### Attenuation Accuracy and VSWR (SMA/TNC)

Frequency (GHz)	Attenuation Accuracy ( $\pm$ dB) vs. Attenuation (dB)						VSWR (max.)
	1~10	11~20	21~30	40	50	60	
DC~4	0.4	0.5	0.7	0.7	0.7	0.8	1.2
DC~8	0.5	0.6	0.8	0.8	0.8	0.9	1.25
DC~12.4	0.6	0.7	0.9	0.9	1.0	1.1	1.25
DC~18	0.6	0.8	1.0	1.2	1.5	1.5	1.3

### Attenuation Accuracy and VSWR (N)

Frequency (GHz)	Attenuation Accuracy ( $\pm$ dB) vs. Attenuation (dB)						VSWR (max.)
	1~10	20	30	40	50	60	
DC~4	0.4	0.5	0.6	0.7	0.7	0.8	1.2
DC~6	0.5	0.6	0.8	0.8	0.8	0.9	1.2
DC~12.4	0.6	0.7	0.8	0.9	1.0	1.1	1.3
DC~18	0.7	0.8	1.0	1.2	-	-	1.35

### Attenuation Accuracy and VSWR (BNC)

Frequency (GHz)	Attenuation Accuracy ( $\pm$ dB) vs. Attenuation (dB)				VSWR (max.)
	1~7	7~20	21~30	40~60	
DC~4	0.3	0.5	0.75	0.8	1.25
DC~6	0.3	0.5	0.75	0.8	1.25

**How To Order****QFA1802-X-Y-Z**

X: Frequency in GHz

Y: Attenuation in dB

Z: Connector type

## Examples:

To order an attenuator, DC-18GHz, SMA male to SMA female, 30dB attenuation, specify QFA1802-18-30-S.

## Connector naming rules:

N - N (Outline A)

T -TNC (Outline B)

S - SMA (Outline C)

B - BNC (Outline D)