

# QFA2602

## DC~26.5GHz, 2W

- Features:  
 \* Low VSWR  
 \* High Attenuation Flatness

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

### Electrical

Frequency:	DC~26.5GHz
Attenuation:	0~90dB
Impedance:	50Ω
Average Power*1:	2W@25°C max.

[1] Derated linearly to 0.5W@125°C.

### Mechanical

RF Connectors:	SMA, 3.5mm, SMP, SSMP, SSMA
Outer Conductor:	Passivated stainless steel or gold/nickel plated brass
Inner Conductor:	Gold plated brass/beryllium copper

### Environmental

Temperature: -55~+85°C

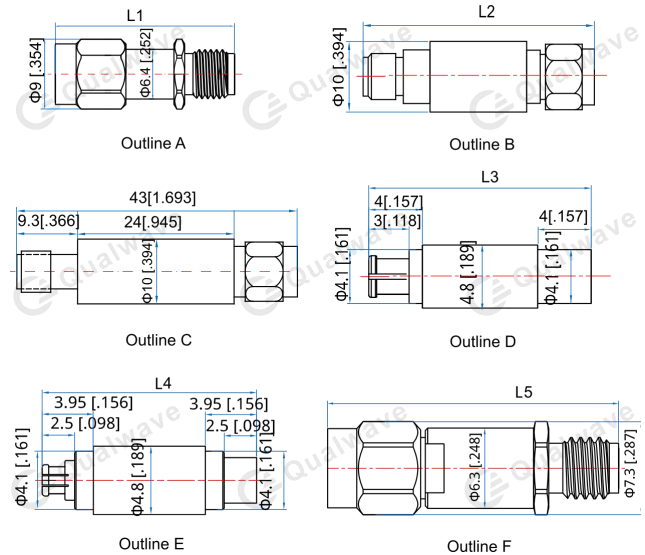
Peak Power (W)	Pulse Width (μS)	Duty Cycle (%)	Applicable Scope
20	5	1	@SMA(0~40dB), SMP,SSMP,SSMA
500		0.2	@3.5mm
		0.4	@SMA(50~90dB)

#### Peak Power

#### Length (mm/in)

Attenuation (dB)	L1 (mm [in])	L3(mm [in])	L4(mm [in])	L5(mm [in])
0~10, 12, 15, 20	21.6 [.85]	16.8 [.661]	16.5 [.65]	25 [.984]
30, 40	25.1 [.988]	18.6 [.732]	18.5 [.728]	27 [1.063]

### Outline Drawings



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

#### Length (mm/in)

Attenuation (dB)	L2 (mm [in])
1~20	37 [1.457]
30	37 [1.457]
40	40.3 [1.587]
50~70	46 [1.811]

### Attenuation Accuracy and VSWR (SMA)

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)										VSWR (max.)	
	0	1~6	7~10	12/15/20	30/40	50	60	70	80	90	0~40	50~90
DC~4	-0.2/+0.3	-0.4/+0.5	-0.6/+0.5	-0.6/+0.5	-0.8/+0.7	±0.5	±0.8	±1	±1	±1.5	1.3	1.15
DC~8	-0.2/+0.3	-0.4/+0.5	-0.6/+0.5	-0.6/+0.5	-0.8/+0.7	±0.6	±1	±1	±1	±1.5	1.3	1.2
DC~12.4	-0.2/+0.3	-0.4/+0.5	-0.6/+0.5	-0.6/+0.5	-0.8/+0.7	±0.8	±1	±1.2	±1.2	±2	1.3	1.25
DC~18	-0.2/+0.4	-0.4/+0.6	-0.6/+0.6	-0.6/+0.6	-0.8/+0.8	±1.5	±1.5	±1.5	±1.5	±2	1.35	1.3
DC~26.5	-0.2/+0.6	-0.4/+0.8	-0.6/+0.8	-0.6/+0.8	-0.8/+1.0	±2	±2	±2	-	-	1.4	1.35

**Attenuation Accuracy and VSWR (3.5mm)**

Frequency (GHz)	Attenuation Accuracy ( $\pm$ dB) vs. Attenuation (dB)						VSWR (max.)
	1~9	10~19	20~30	40	50	60~70	
DC~12.4	-0.3/+0.5	-0.3/+0.6	-0.3/+0.6	-0.3/+0.7	$\pm$ 1	$\pm$ 1	1.15
DC~18	-0.3/+0.6	-0.3/+0.7	-0.3/+0.8	-0.5/+1	$\pm$ 1	$\pm$ 1	1.2
DC~26.5	-0.3/+1	-0.3/+1	-0.3/+1	-1/+1.5	$\pm$ 1.5	$\pm$ 1	1.25

**Attenuation Accuracy and VSWR(SMP/SSMP/SSMA)**

Frequency (GHz)	Attenuation Accuracy ( $\pm$ dB) vs. Attenuation (dB)								VSWR (max.)
	0	1~6	7~10	12	15	20	30	40	
DC~26.5	-0.2/+0.6	-0.4/+0.8	-0.6/+0.8	-0.6/+0.8	-0.6/+0.8	-0.6/+0.8	-0.8/+1.0	-0.8/+1.0	1.4

**How To Order**
**QFA2602-X-Y-Z**

X: Frequency in GHz

Y: Attenuation in dB

Z: Connector type

**Examples:**

To order an attenuator, DC~26.5GHz, SMA male to SMA female, 20dB attenuation, specify QFA2602-26.5-20-S.

**Connector naming rules:**

S - SMA (Outline A - 0~40dB, Outline C - 50~90dB)

3 - 3.5mm (Outline B)

P - SMP (Outline D)

G - SSMP (Outline E)

A - SSMA (Outline F)