

# QFA2605

## DC~26.5GHz, 5W

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|---|---|
| <b>Features:</b><br>* Low VSWR<br>* High Attenuation Flatness | <b>Applications:</b><br>* Wireless<br>* Transmitter<br>* Laboratory Test<br>* Radar |
|---|---|

### Electrical

Frequency:	DC~26.5GHz
Attenuation:	1~80dB
Impedance:	50Ω
Average Power*1:	5W@25°C max.
Peak Power:	200W (5μS pulse width, 0.012% duty cycle) @SMA( 1~30dB ) 1KW (5μS pulse width, 0.5% duty cycle) @SMA( 40~50dB ) ,3.5mm

[1] Derated linearly to 0.25W@120°C.@SMA( 1~30dB )  
 [2] Derated linearly to 0.25W@120°C.@SMA( 40~50dB ) ,3.5mm

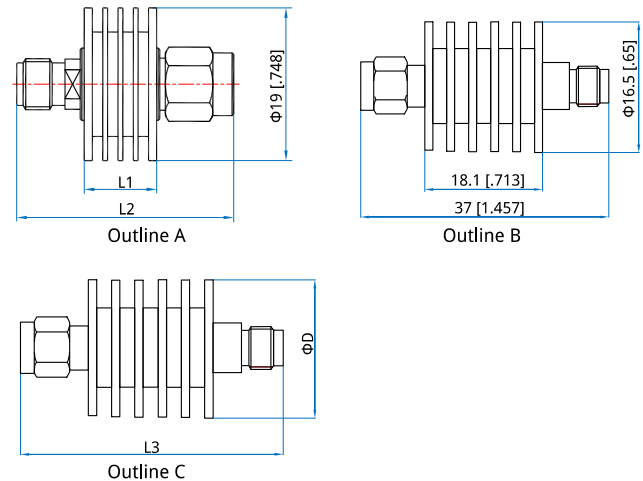
### Mechanical

RF Connectors:	SMA, 3.5mm
Housing:	Aluminum
Outer Conductor:	Passivated stainless steel or gold/nickel plated brass
Male Inner Conductor:	Gold plated brass
Female Inner Conductor:	Gold plated beryllium copper

### Environmental

Temperature: -55~+85°C

### Outline Drawings



Attenuation (dB)	L1 (mm [in])	L2 (mm [in])	L3 (mm [in])	D
1~20	9 [.354]	27 [1.063]	37 [1.457]	15.7 [.618]
30	12 [.472]	30 [1.181]	37 [1.457]	15.7 [.618]
40	-	-	40.3 [1.587]	16.5 [.65]
50~80	-	-	46 [1.811]	16.5 [.65]

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

### Attenuation Accuracy and VSWR (SMA)

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)					VSWR (max.)
	1~10	20	30	40	50	
DC~4	±0.5	±0.5	±0.6	±0.4	±0.5	1.15
DC~8	±0.5	±0.5	±0.6	±0.5	±0.5	1.2
DC~12.4	±0.5	±0.5	±0.6	±0.5	±0.5	1.25
DC~18	±0.6	±0.6	±0.7	±1	±1	1.3
DC~26.5	±0.7	±0.7	±0.8	-0.5/+1.5	-0.5/+1.5	1.35

### Attenuation Accuracy and VSWR (3.5mm)

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)						VSWR (max.)
	1~10	11~30	40	50~60	70	80	
DC~12.4	±0.6	±0.5	-0.5/+0.7	±1	-1/+1.5	-1.2/+1.5	1.15
DC~18	±0.8	±0.8	-0.5/+1	-1/+1.2	-1/+1.5	-1.2/+1.5	1.2
DC~26.5	±1	-0.5/+1.2	-0.5/+1.2	-1/+1.5	-1/+1.5	-1.2/+1.5	1.25

**How To Order****QFA2605-X-Y-Z**

X: Frequency in GHz

Y: Attenuation in dB

Z: Connector type

Connector naming rules:

S -SMA (Outline A - 1~30dB, Outline B - 40~50dB)

3 - 3.5mm (Outline C)

Examples:

To order an attenuator, DC~26.5GHz, SMA male to SMA female,  
20dB attenuation, specify QFA2605-26.5-20-S.