QFA1850

DC~18GHz, 50W

Features:
* Low VSWR
* High Attenuation Flatness

Applications:
* Wireless
* Transmitter
* Laboratory Test
* Radar

Electrical

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

[1] Derated linearly to 2.5W@120°C.

Mechanical

RF Connectors[*2]:	SMA, N

[2] Female connectors can be replaced with male connectors on request.

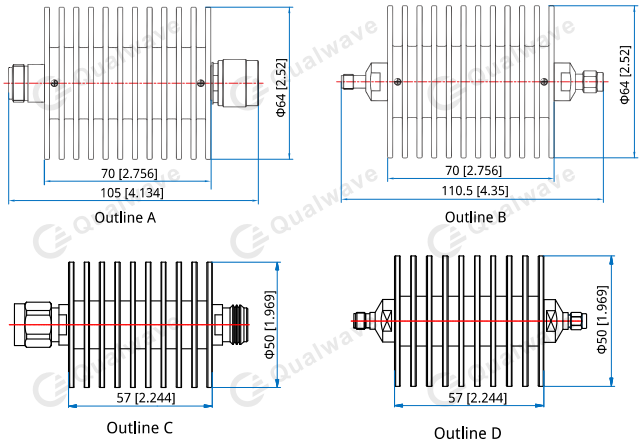
Environmental

Temperature:	-55~+125°C

Peak Power

Peak Power (W)	Pulse Width (μS)	Duty Cycle (%)	Applicable Scope
500	5	5	@SMA,DC~18GHz
5000		0.5	@N,DC~12.4GHz
1000		2.5	@N,18GHz

Outline Drawings



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

How To Order

QFA1850-X-Y-Z

X: Frequency in GHz
Y: Attenuation in dB
Z: Connector type

Connector naming rules:
N - N (Outline A, C)
S - SMA (Outline B, D)

Examples:
To order an attenuator, DC-12.4GHz, N male to N female, 3dB attenuation, specify QFA1850-12.4-3-N.

Length (mm/in)

Attenuation (dB)	Frequency (GHz)	N	SMA
1~10, 15, 20	DC~4GHz	57 [2.244]	57 [2.244]
1~10, 15, 20	DC~8GHz	57 [2.244]	57 [2.244]
1~10, 15, 20, 30, 40, 50	DC~12.4GHz	70 [2.756]	70 [2.756]
1~10, 15, 20, 30, 40, 50	DC~18GHz	70 [2.756]	70 [2.756]

Attenuation Accuracy and VSWR

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)				VSWR (max.)
	1~10	11~20	21~30	31~50	
DC~4	0.4	0.5	0.7	0.7	1.2
DC~8	0.5	0.6	0.8	0.8	1.25
DC~12.4	0.6	0.7	0.8	1.1	1.35
DC~18	0.8	0.9	1.1	1.3	1.45

Typical Performance Curves

N (DC~8GHz)