

FFA18K15

DC~18GHz, 150W

Features:
 * Low VSWR
 * High Attenuation Flatness

Applications:
 * Wireless
 * Transmitter
 * Laboratory Test
 * Radar



Electrical

Frequency: DC~18GHz
 Attenuation: 3, 6~60dB
 Impedance: 50Ω
 Average Power*1: 150W@25°C max.

[1] Derated linearly to 7.5W@120°C.

Mechanical

RF Connectors: SMA, N

Peak Power

Peak Power (W)	Pulse Width (μS)	Duty Cycle (%)	Applicable Scope
1000	5	10	@SMA DC~12.4GHz
500		15	@SMA 18GHz
5000		1	@N DC~12.4GHz
1000		5	@N 18GHz

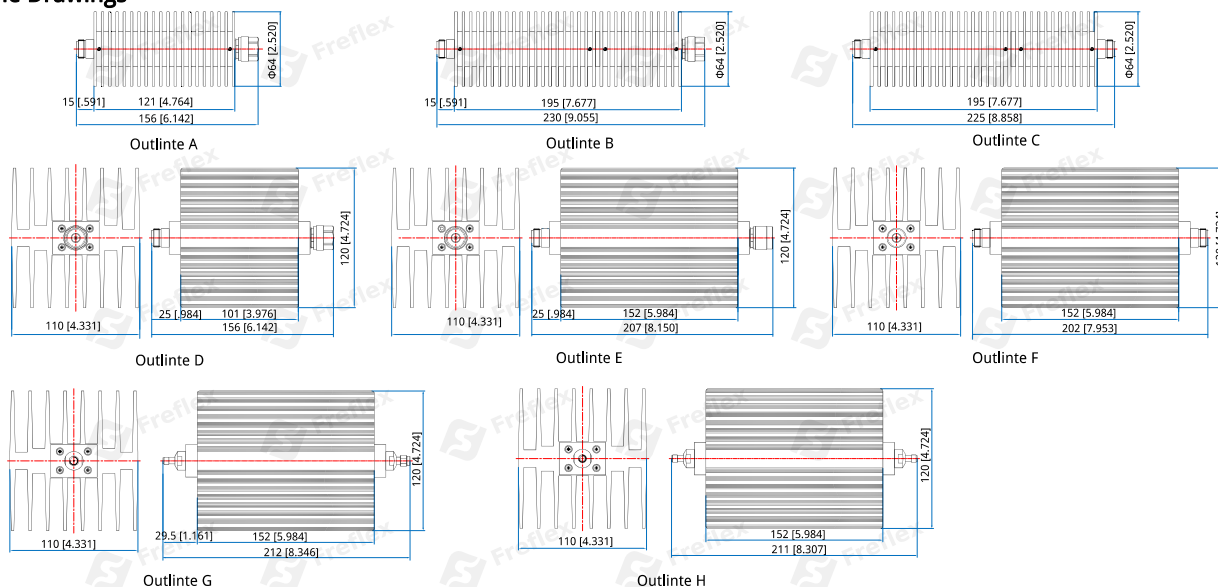
Environmental

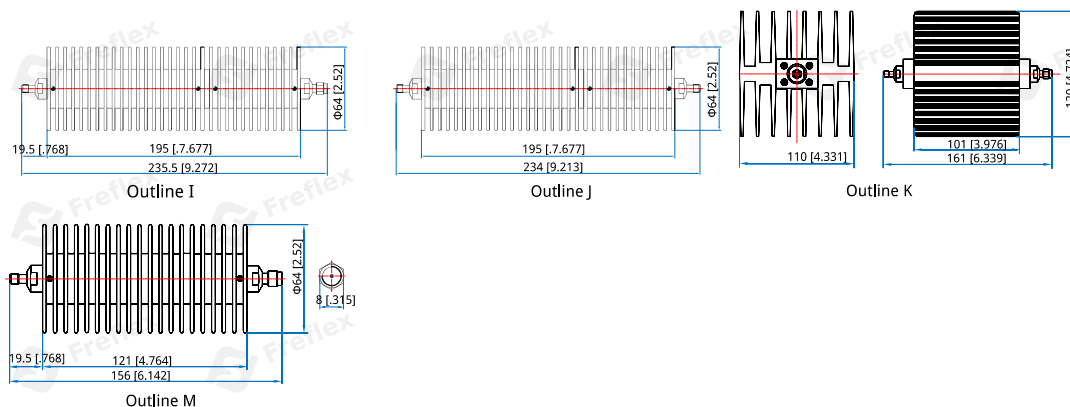
Temperature: -55~+125°C

Attenuation Accuracy and VSWR

Frequency (GHz)	Attenuation Accuracy (±dB) vs. Attenuation (dB)							VSWR (max.)
	3(SMA)	3(N)	6~10	20	30	40	50~60	
DC~4	0.7	0.7	0.7	0.7	0.8	0.9	0.9	1.20
DC~8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	1.25
DC~12.4	1.2	0.9	0.9	0.9	1	1.1	1.1	1.35
DC~18	0/+5	2	2	1.5	1.5	1.3	1.4	1.45

Outline Drawings





Unit: mm [in]

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

How To Order

FFA18K15-X-Y-Z

X: Frequency in GHz

Y: Attenuation in dB

Z: Connector type

Connector and shape naming rules:

N1 - Cylinder, N, 3dB(Outline A)

N1 - Cylinder, N, 6~60dB(Outline B)

NFNF1 - Cylinder, N Female, 6~60dB(Outline C)

N2 - Cuboid, N, 3dB(Outline D)

N2 - Cuboid, N, 6~60dB(Outline E)

NFNF2 - Cuboid, N Female, 6~60dB(Outline F)

S2 - Cuboid, SMA, 3dB(Outline K)

S2 - Cuboid, SMA, 6~60dB(Outline G)

SFSF2 - Cuboid, SMA Female, 6~60dB(Outline H)

S1 - Cylinder, SMA, 3dB(Outline M)

S1 - Cylinder, SMA, 6~60dB(Outline I)

SFSF1 - Cylinder, SMA Female, 6~60dB(Outline J)

Examples:

To order an attenuator, DC-18GHz, N male to N female, 30dB attenuation, cylinder, specify FFA18K15-18-30-N1.