



# WFA18K15

## 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

### Environmental

Temperature: -55~+125°C

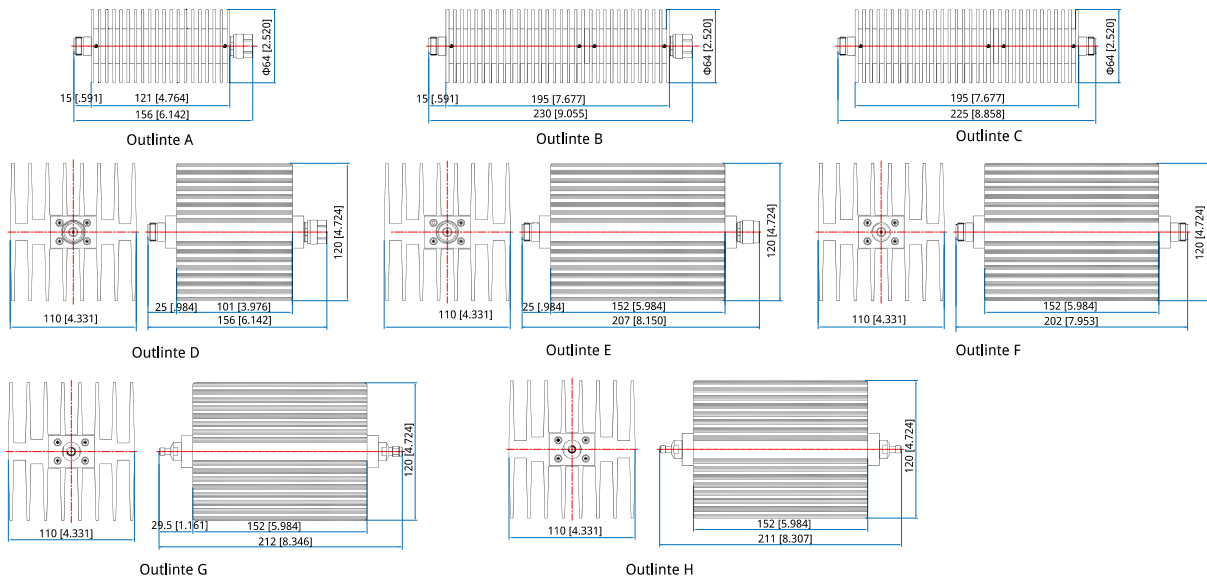
### Peak Power

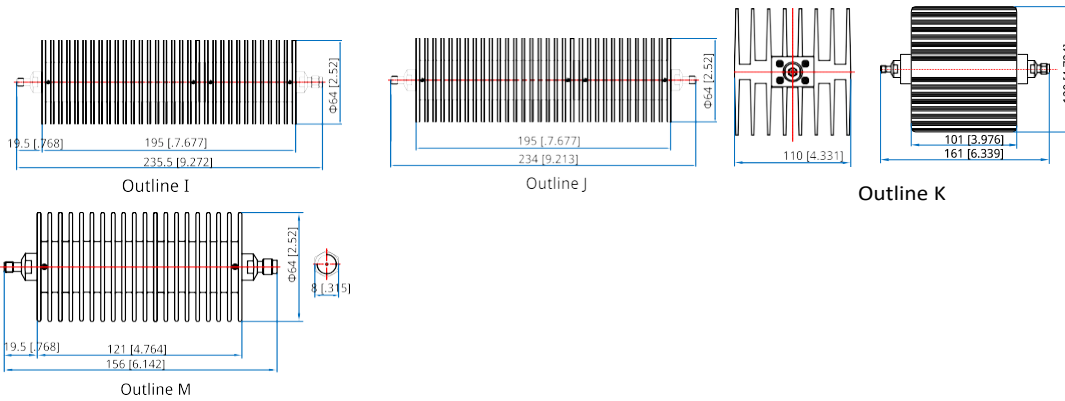
Peak Power (W)	Pulse Width (μs)	Duty Cycle (%)	Applicable Scope
1000	5	10	@SMA DC~12.4GHz
500		15	@SMA 18GHz
5000		1	@N DC~12.4GHz
1000		5	@N 18GHz

### 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: ±2mm [±0.08in]

**How To Order**

**WFA18K15-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 WFA18K15-18-30-N1.