

YSFA1K-6-XX-N

Fixed Attenuator, DC-6 GHz, 1 KW, N-Type Connector

Key Features

- 1 kW High Power Handling
- DC to 6 GHz Broadband Operation
- Rugged & Reliable
- Flexible Cooling Options
- Multiple Attenuation Values

Applications

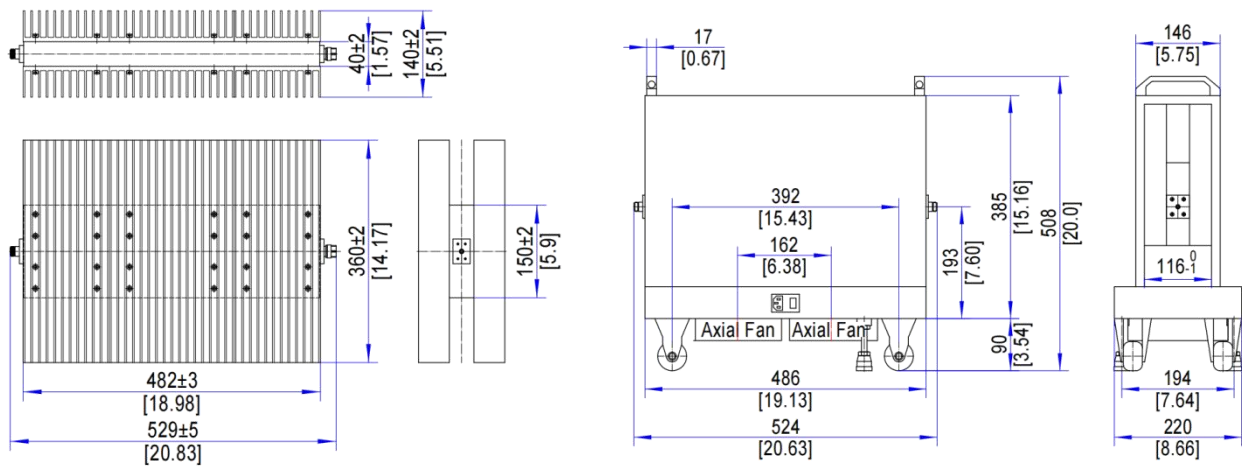
- High-Power Rf Testing
- Transmitter Protection
- Signal Conditioning In Rf Systems
- Radar And Communication Systems
- Industrial And Defense Applications

Electrical Specifications				
1	Nominal Impedance	50 Ω		
2	Average Power ¹	1 KW @ 25°C		
3	Peak Power	10 KW (pulse width:5 μs, duty cycle:10%)		
4	Frequency Range	DC to 2 GHz	DC to 4 GHz	DC to 6 GHz
5	VSWR	≤1.25	≤1.35	≤1.45
Environmental Specifications				
1	Operating Temperature	-55°C~+125°C		
Mechanical Specifications				
1	Connectors	N-Type Male to Female Other configurations available upon request		
2	Body Material	Connector: Brass Heat Sink: Black Anodized Aluminum		
3	Dimension ²	Outline A:482×360×140 mm / [18.98×14.17×5.51 in] Outline B:486×220×508 mm / [19.13×8.66×20 in]		
Attenuation & Accuracy				
Attenuation (dB)	Accuracy(dB)			
	DC to 2 GHz	DC to 4 GHz	DC to 6 GHz	
30	±2.0	±3.0	±5.0	
40	±2.0	±3.0	-1/+8	
50,60	±2.0	±3.0	±4.0	

Note 1: Refer to the power derating curve for details.

Note 2: Excluding Connectors

Note 3: Forced-air cooling is required for high-power operation. Ensure the fan is operating before applying RF power.

Outline Drawing (Units: mm/[inch])


Outline A: Without Fan

Outline B: With Fan

Ordering Information:

 Model: **YSFA1K-XX-YY-N-F**

XX = Frequency Range (2 GHz, 4 GHz, 6 GHz)

YY = Attenuation Value in dB

F = Fan Option (F: With Fan)

Example:

- 6 GHz, 30 dB, With Fan → **YSFA1K-6-30-N-F**
- 4 GHz, 30 dB, Without Fan → **YSFA1K-4-30-N**