

# FSFA100-18-XX-N

Fixed Attenuator, DC-18 GHz, 100 W, N-Type Connector

## Key Features

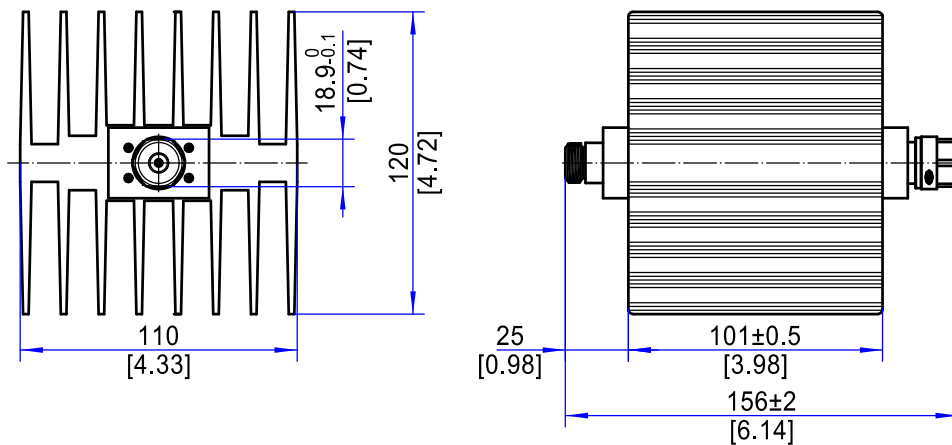
- DC to 18 GHz Broadband Coverage
- 100 W Average / 1 kW Peak Power
- Low VSWR  $\leq 1.45:1$
- Rugged Thermal Design
- Wide Temperature Range

## Applications

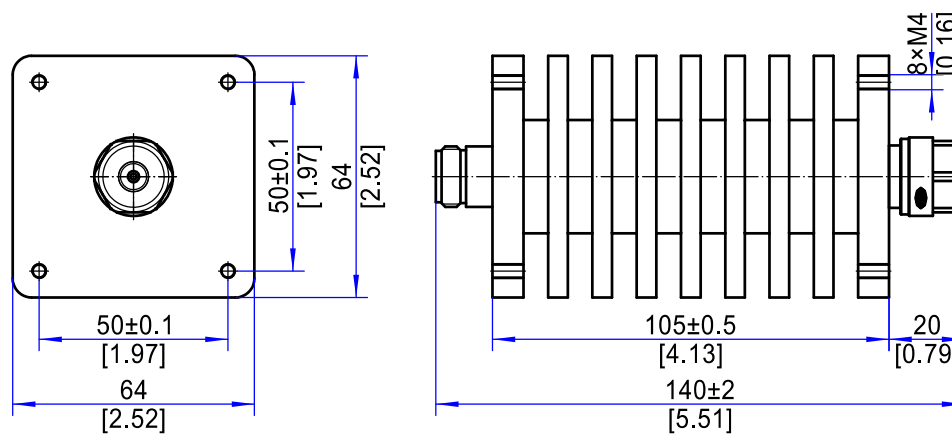
- RF And Microwave Test Systems
- Millimeter-Wave Communication
- Signal Conditioning In RF Chains
- Instrumentation Protection
- Aerospace And Defense Systems

Electrical Specifications					
1	Nominal Impedance	50 $\Omega$			
2	Average Power <sup>1</sup>	100 W @ 25°C			
3	Peak Power	1 KW (pulse width: 5 $\mu$ s, duty cycle: 5%)			
4	Frequency Range	DC-4 GHz	DC-8 GHz	DC-12.4 GHz	DC-18 GHz
5	VSWR	$\leq 1.20$	$\leq 1.25$	$\leq 1.35$	$\leq 1.45$
Environmental Specifications					
1	Operating Temperature	-55°C to +125°C			
Mechanical Specifications					
1	Connectors	N-Type Male to N-Type Female Other configurations available upon request			
2	Body Material	Connector: Brass Heat Sink: Black Anodized Aluminum			
3	Dimension	Outline A: 156×110×120 mm Outline B: 140×64×64 mm			
Attenuation & Accuracy					
Attenuation (dB)	Accuracy(dB)				
	DC-4 GHz	DC-8 GHz	DC-12.4 GHz	DC-18 GHz	
6 to 10	$\pm 0.7$	$\pm 0.8$	$\pm 1.2$	$\pm 1.5$	
20	$\pm 0.7$	$\pm 0.8$	$\pm 0.9$	$\pm 1.5$	
30	$\pm 0.8$	$\pm 0.9$	$\pm 1.0$	$\pm 1.3$	
40	$\pm 0.8$	$\pm 0.9$	$\pm 1.0$	$\pm 1.3$	
50 to 60	$\pm 0.9 \sim 1.0$	$\pm 1.0$	$\pm 1.1$	$\pm 1.4$	

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

**Outline Drawing** (Units: mm/[inch], Tolerance:  $\pm 0.5$  mm)


Outline A



Outline B

**Ordering Information:**

 Model: **YSFA100-XX-YY-N-ZZ**

XX = Frequency Range (4 GHz, 8 GHz, 12.4 GHz, 18 GHz )

YY = Attenuation Value in dB

ZZ = Outline Option (L156:Outline A, L140: Outline B)

 Example: 8 GHz, 20 dB, Outline A → **YSFA100-8-20-N-A**