

YSFA20-18-XX-S

Fixed Attenuator, DC to 18 GHz, 20 W, SMA Connector

Key Features

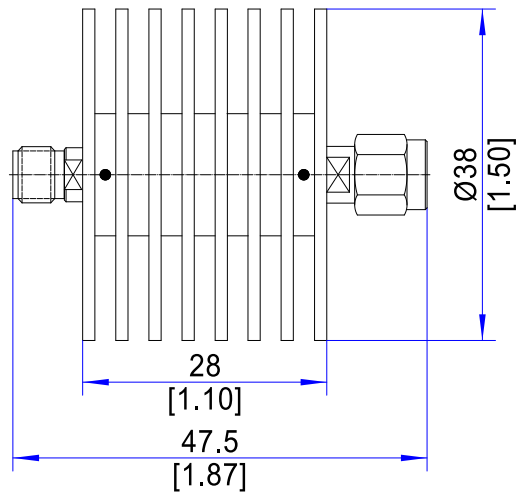
- DC to 18 GHz Ultra-Wideband
- 20 W Power Handling
- Low VSWR & High Accuracy
- Rugged Thermal Design
- Wide Temperature Range

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 Ω			
2	Average Power ¹	20 W @ 25°C			
3	Peak Power	500 W (pulse width:5 μ s,duty cycle:2%)			
4	Frequency Range	DC to 4 GHz	DC to 8 GHz	DC to 12.4 GHz	DC to 18 GHz
5	VSWR	≤ 1.15	≤ 1.20	≤ 1.25	≤ 1.35
6	Attenuation	1 to 40 dB			
Environmental Specifications					
1	Operating Temperature	-55°C to +125°C			
Mechanical Specifications					
1	Connectors	SMA Male to Female Other configurations available upon request			
2	Body Material	Connector: Brass Heat Sink: Black Anodized Aluminum			
3	Dimensions	L= $\Phi 38 \times 28$ mm / [$\Phi 1.50 \times 1.10$ in]			
Attenuation & Accuracy					
Attenuation (dB)	Accuracy(dB)				
	DC to 4 GHz	DC to 8 GHz	DC to 12.4 GHz	DC to 18 GHz	
1 to 10	± 0.4	± 0.5	± 0.6	± 0.6	
11 to 20	± 0.5	± 0.6	± 0.7	± 0.8	
21 to 30	± 0.6	± 0.8	± 0.8	± 1.0	
31v40	± 0.7	± 0.8	± 0.9	± 1.2	

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

Outline Drawing (Units: mm/[inch], Tolerance: $\pm 2\%$)**Ordering Information:**Model: **YSFA20-XX-YY-S**

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

YY = Attenuation Value in dB

Example: 8 GHz, 20 dB → **YSFA20-8-20-S**