YSFA30-18-XX-S

Fixed Attenuator, DC-18 GHz, 30 W, SMA Connector

Key Features

- DC to 18 GHz Ultra-Wideband
- 30 W High Power Handling
- Multiple Outline Options
- Low VSWR & High Accuracy
- Rugged & Reliable

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]	30 W @ 25°C
3	Frequency Range	DC-18 GHz
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	Outline A:Φ38×59.2 mm / [Φ1.5×2.33 in] Outline B:Φ15×99 mm / [Φ0.59×3.90 in] Outline C:Φ38×110 mm / [Φ1.5×4.33 in]

Attenuation & Accuracy

Outline A:

Attenuation (dB)	Accuracy(dB)			
	DC-4 GHz	DC-8 GHz	DC-12.4 GHz	DC-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
31 to 40	±0.7	±0.8	±0.9	±1.2
VSWR	≤1.15	≤1.20	≤1.25	≤1.35

Outline B:

Attenuation (dB)	Accuracy(dB)			
	DC-4 GHz	DC-8 GHz	DC-12.4 GHz	DC-18 GHz
1 to 10	±0.4	±0.5	±0.6	±0.8
11 to 20	±0.5	±0.6	±0.7	±0.9
21 to 30	±0.6	±0.8	±0.8	±1.0
31 to 40	±0.7	±0.8	±0.9	±1.2
VSWR	≤1.20	≤1.25	≤1.30	≤1.35

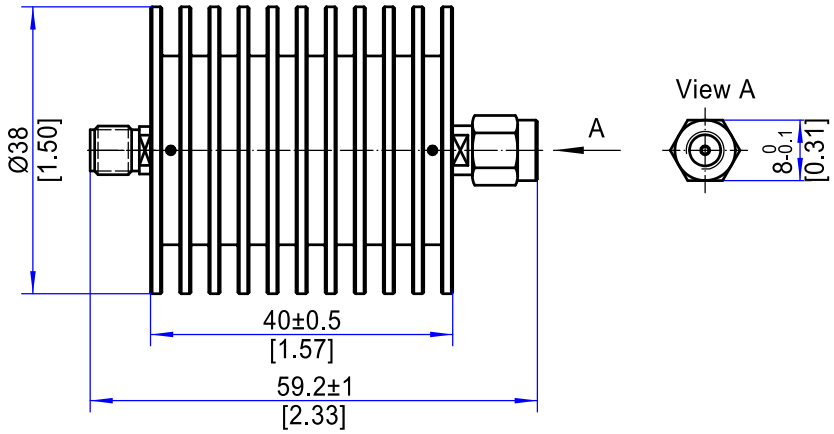
Outline C:

Attenuation	Accuracy(dB)

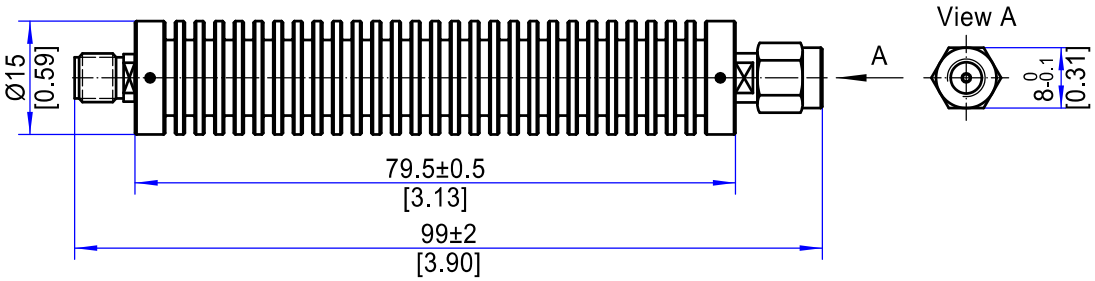
(dB)	DC-4 GHz	DC-8 GHz	DC-12.4 GHz	DC-18 GHz
1 to 10	±0.4	±0.5	±0.6	±0.8
20	±0.5	±0.6	±0.7	±0.9
30	±0.7	±0.8	±0.8	±1.0
40	±0.7	±0.8	±1.0	±1.2
50 to 60	±0.7	±0.8	±1.0	±1.3
VSWR	≤1.20	≤1.25	≤1.35	≤1.45

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

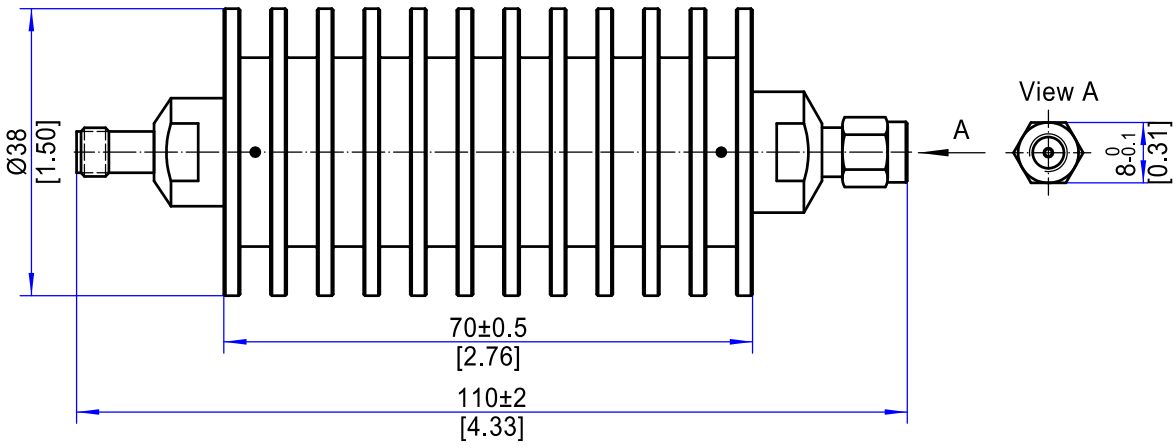
Outline Drawing (Units: mm/[inch], Tolerance: ± 0.5 mm)



Outline A



Outline B



Outline C

Ordering Information:

Model: **YSFA30-XX-YY-S-ZZ**
XX = Frequency Range (4 GHz, 8 GHz, 12.4 GHz, 18 GHz)
YY = Attenuation Value in dB
ZZ = Outline Option(L59: Outline A, L99: Outline B, L110: Outline C)
Example: 8 GHz, 20 dB,Outline A→**YSFA30-8-20-S-A**