

Part No:

HA18A10W-20



*20 dB - Fixed Attenuator SMA Male To SMA Female Up To 18 GHz
Rated To 10 Watts With Passivated Stainless Steel Body*

The HASCO Fixed Attenuator **HA18A10W-20** is rated to 10 Watts and operates from DC to 18GHz. The versatile coaxial package uses SMA male to SMA female connectors.

The HA18A10W-20 is RoHS compliant.



RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuator pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Electrical

- Frequency Range DC - 18 GHz
- VSWR (MAX) DC - 4 GHz..... 1.15:1
4 - 12.4 GHz..... 1.25:1
12.4 - 18 GHz..... 1.40:1
- Impedance 50 Ohms
- Power 10 Watts Average
Derates linearly from +25° to 10% at +125°
- Power Peak 500 Watts - 5 μSec Pulse Width
0.2% Duty Cycle

**dB Value	PART NO.	ATTENUATION DC-12.4	ATTENUATION DC-18
1	HA18A10W-01	± 0.30	± 0.50
2	HA18A10W-02	± 0.30	± 0.50
3	HA18A10W-03	± 0.30	± 0.50
6	HA18A10W-06	± 0.30	± 0.50
10	HA18A10W-10	± 0.50	± 0.75
15	HA18A10W-15	± 0.50	± 0.75
20	HA18A10W-20	± 0.50	± 0.75
30	HA18A10W-30	± 0.75	± 1.00

Environmental Data

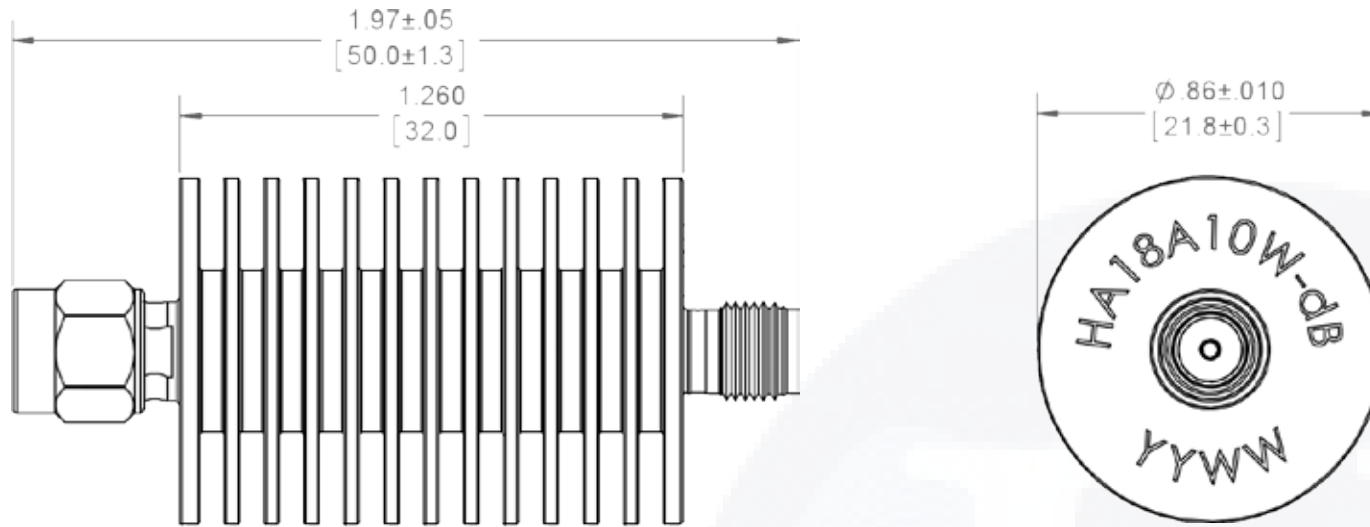
- Temperature Range -65°C - +125°C
Environmental Capabilities Per MIL-DTL-3933A/16 Type Devices

Material


- Body Passivated Stainless Steel: IAW ASTM A484 & A482, Class 303
- Heat Sink Black Anodized Aluminum
- Center Contact Gold Plated (ASTM-B488/MIL-PRF-39012) BeCu (PER ASTM B196 & B197)
- Attenuator Card Proprietary Thin Film. (Passivation protected on aluminum nitride ceramic hybrid.)
- Insulators Teflon (PTFE) Per ASTM D1710

To view online, go to: <https://www.hasco-inc.com/attenuators/20-db-fixed-attenuator-sma-male-to-sma-female-up-to-18-ghz-rated-to-10-watts-with-black-aluminum-heat-sink-body/>

HA18A10W-20 | DC - 18 GHz • 10 Watts | Outline Drawing



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-	RELEASE	5/16	TAC	APPROVED BY: ABC		
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				MATERIALS:	SEE DATA SHEET	CAGE CODE: OT8L4 SCALE: N/A SIZE: A
				FINISHES:	SEE DATA SHEET	PART NO./DRAWING NO. HA18A10W-20 REV: -
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