HA18N10W-10





10 dB - Fixed Attenuator N Male To N Female Up To 18 GHz Rated To 10 Watts With Black Aluminum Heatsink Body

The HASCO Fixed Attenuator **HA18N10W-10** is rated to 10 Watts and operates from DC to 18 GHz. The versatile coaxial package uses N male to N female connectors.

The HA18N10W-10 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 DC - 4 GHz......1.15:1 4 - 12 GHz.....1.25:1

12-18 GHz..... 1.40:1

• Impedence 50 Ohms

Power 10 Watt Average

Derates Linearly from +25°C

to 10% @ 125°C

Power Peak 500 Watts

 $5~\mu$ Sec PW, 0.2% Duty Cycle

Environmental Data

• Temperature Range -65°C - +125°C

Material

• Dielectric Teflon (PTFE)

Center Conductor BeCu, Gold Plated

Outer Conductor Passivated Stainless Steel

Heat Sink Black Anodized Aluminum

 Attenuation Card Proprietary Thin Film, Passivation Protected, on Aluminum Nitride

Ceramic Hybrid

1 HA18N10W-01 ± 0.3 ±0.5 2 HA18N10W-02 ± 0.3 ±0.5 3 HA18N10W-03 ± 0.3 ±0.5 4 HA18N10W-04 ± 0.3 ±0.5 5 HA18N10W-05 ± 0.3 ±0.5 6 HA18N10W-06 ± 0.3 ±0.5 7 HA18N10W-07 ± 0.5 ±0.75 8 HA18N10W-08 ± 0.5 ±0.75 9 HA18N10W-09 ± 0.5 ±0.75 10 HA18N10W-10 ± 0.5 ±0.75 11 HA18N10W-11 ± 0.5 ±0.75 12 HA18N10W-12 ± 0.5 ±0.75 15 HA18N10W-15 ± 0.5 ±0.75 20 HA18N10W-20 ± 0.5 ±0.75 30 HA18N10W-30 ± 0.75 ±1.00 40 HA18N10W-40 ± 0.75 ±1.00	**dB Value	PART NO.	ATTENUATION DC-12.4 12.4-18	
3 HA18N10W-03 ± 0.3 ±0.5 4 HA18N10W-04 ± 0.3 ±0.5 5 HA18N10W-05 ± 0.3 ±0.5 6 HA18N10W-06 ± 0.3 ±0.5 7 HA18N10W-07 ± 0.5 ±0.75 8 HA18N10W-08 ± 0.5 ±0.75 9 HA18N10W-09 ± 0.5 ±0.75 10 HA18N10W-10 ± 0.5 ±0.75 11 HA18N10W-11 ± 0.5 ±0.75 12 HA18N10W-12 ± 0.5 ±0.75 15 HA18N10W-15 ± 0.5 ±0.75 20 HA18N10W-20 ± 0.5 ±0.75 30 HA18N10W-30 ± 0.75 ±1.00	1	HA18N10W-01	± 0.3	±0.5
4 HA18N10W-04 ± 0.3 ±0.5 5 HA18N10W-05 ± 0.3 ±0.5 6 HA18N10W-06 ± 0.3 ±0.5 7 HA18N10W-07 ± 0.5 ±0.75 8 HA18N10W-08 ± 0.5 ±0.75 9 HA18N10W-09 ± 0.5 ±0.75 10 HA18N10W-10 ± 0.5 ±0.75 11 HA18N10W-11 ± 0.5 ±0.75 12 HA18N10W-12 ± 0.5 ±0.75 15 HA18N10W-15 ± 0.5 ±0.75 20 HA18N10W-20 ± 0.5 ±0.75 30 HA18N10W-30 ± 0.75 ±1.00	2	HA18N10W-02	± 0.3	±0.5
5 HA18N10W-05 ± 0.3 ±0.5 6 HA18N10W-06 ± 0.3 ±0.5 7 HA18N10W-07 ± 0.5 ±0.75 8 HA18N10W-08 ± 0.5 ±0.75 9 HA18N10W-09 ± 0.5 ±0.75 10 HA18N10W-10 ± 0.5 ±0.75 11 HA18N10W-11 ± 0.5 ±0.75 12 HA18N10W-12 ± 0.5 ±0.75 15 HA18N10W-15 ± 0.5 ±0.75 20 HA18N10W-20 ± 0.5 ±0.75 30 HA18N10W-30 ± 0.75 ±1.00	3	HA18N10W-03	± 0.3	±0.5
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9 HA18N10W-09 ± 0.5 ±0.75 10 HA18N10W-10 ± 0.5 ±0.75 11 HA18N10W-11 ± 0.5 ±0.75 12 HA18N10W-12 ± 0.5 ±0.75 15 HA18N10W-15 ± 0.5 ±0.75 20 HA18N10W-20 ± 0.5 ±0.75 30 HA18N10W-30 ± 0.75 ±1.00	7	HA18N10W-07	± 0.5	±0.75
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12 HA18N10W-12 ± 0.5 ±0.75 15 HA18N10W-15 ± 0.5 ±0.75 20 HA18N10W-20 ± 0.5 ±0.75 30 HA18N10W-30 ± 0.75 ±1.00	10	HA18N10W-10	± 0.5	±0.75
15 HA18N10W-15 ± 0.5 ± 0.75 20 HA18N10W-20 ± 0.5 ± 0.75 30 HA18N10W-30 ± 0.75 ± 1.00	11	HA18N10W-11	± 0.5	±0.75
20 HA18N10W-20 \pm 0.5 \pm 0.75 30 HA18N10W-30 \pm 0.75 \pm 1.00	12	HA18N10W-12	± 0.5	±0.75
30 HA18N10W-30 ± 0.75 ± 1.00	15	HA18N10W-15	± 0.5	±0.75
	20	HA18N10W-20	± 0.5	±0.75
40 HA18N10W-40 ± 0.75 ± 1.00	30	HA18N10W-30	± 0.75	±1.00
	40	HA18N10W-40	± 0.75	±1.00

To view online, go to: https://www.hasco-inc.com/attenuators/10-db-fixed-attenuator-n-male-to-n-female-up-to-18-ghz-rated-to-10-watts-with-black-aluminum-heatsink-body/