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Data Sheet
August 14, 2026

JDS UNIPHASE

JDS Uniphase HA9 - HA9W1+20KFP1

JDS Uniphase Optical Attenuators. Resolution: ** 0.01 dB, Accuracy: ** ±0.1 dB (typical).

MODEL JDS Uniphase HA9-HA9W1+20KFP1	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU HA9-HA9W1+20KFP1	LISTING https://aumictechlabs.com/products/ha9-ha9w1-20kfp1-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase HA9W1+20KFP1 is a programmable optical attenuator for precision control of optical power in test, laboratory, and field calibration environments. It delivers 0 to 100 dB attenuation with 0.01 dB resolution and ±0.1 dB typical accuracy, supporting wavelengths from 1200 to 1700 nm across multimode and single-mode fiber. The instrument handles up to 200 mW optical input power and provides beam block attenuation exceeding 110 dB in under 20 ms, making it suitable for optical power meter verification, component calibration, and fiber optic link loss simulation. Front-panel keyboard control combines with GPIB (IEEE 488.2) and RS232 remote interfaces for flexible integration. The attenuator runs SCPI and HP 8156A-compatible command sets with supplied LabVIEW drivers, ensuring compatibility with established test workflows. FC/PC connectors standard; universal connector adapter options support FC/PC, SC/PC, ST/PC, FC/APC, and SC/APC terminations. Technical Specifications Attenuation Range: 0 to 100 dB Resolution: 0.01 dB Repeatability: 0.01 dB Accuracy: ±0.1 dB (typical) Wavelength Range: 1200 to 1700 nm (standard); optional HA9W variant extends to 750 nm with 60 dB attenuation range Insertion Loss:

≤2.2 dB (multimode 50/125 µm); 1.2 dB typical / 1.5 dB max (single-mode) Return Loss: >45 dB (single-mode); >35 dB (multimode 50/125 µm) Polarization Dependent Loss: 0.03 dB typical, 0.08 dB maximum Wavelength Dependence: ±0.05 dB over 1530–1625 nm Maximum Optical Input Power: 200 mW Beam Block Attenuation: >110 dB in −60 dB Key Features Multimode 50/125 µm fiber with single-mode option 5 V output on rear panel for external 1×1 or 1×2 fiberoptic switch control Optional internal couplers (2/98, 10/90, 30/70, 50/50) and 1×2 switch modules Rack-mountable: 19 inch, 2U high, 1/2 rack width Compatibility & Integration SCPI/HP 8156A command set compatibility LabVIEW drivers supplied Software compatibility with HP 8157A attenuator Power: 100–240 V AC, 50–60 Hz, 80 VA maximum Operating temperature: 0 to 40 °C; storage: −40 to 60 °C

Features & description

From manufacturer datasheet

Built-in beam block greater than 90 dB

GPIB and RS-232 SCPI family control Technical Specifications Instrument Family: JDS Uniphase HA9W Operating Wavelength Range: 750 to 1700 nm Attenuation Range: 60 dB Attenuation Resolution: 0.01 dB Attenuation Repeatability: plus or minus 0.01 dB Attenuation Change Rate 0 To 60 dB: less than 1.5 s Attenuation Accuracy: plus or minus 0.1 dB Insertion Loss Single-Mode: less than 5.0 dB Insertion Loss Multimode 50/125: less than 3.2 dB Insertion Loss Multimode Other: less than 3.9 dB Return Loss SM: greater than 45 dB Return Loss SM Analog Class: greater than 60 dB Return Loss MM 50/125: greater than 35 dB

Polarization Dependent Loss Maximum: 0.08 dB

Beam Block Isolation: greater than 90 dB Maximum Optical Input Power: 200 mW AC Input: 90 to 240 Vac 50 to 60 Hz Power Consumption Maximum: 80 VA Operating Temperature: 0 to 40 C Storage Temperature: minus 40 to 60 C Remote Interfaces: GPIB and RS-232 Command Set: SCPI compatible Form Factor: HA series half-rack benchtop Dimensions Class: 21.2 × 8.9 × 35.5 cm Weight Class: about 3.75 to 4 kg Notes From JDS HA series OEM comparison table HA9W column. Queue slug HA9-HA9W1+20KFP1 treated as HA9W configured attenuator; confirm connector and option codes on the faceplate.

HA9HA9W120KFP1 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	JDS Uniphase HA9W
Operating Wavelength Range	750 to 1700 nm
Attenuation Range	60 dB
Attenuation Resolution	0.01 dB
Attenuation Repeatability	plus or minus 0.01 dB
Attenuation Change Rate 0 To 60 dB	less than 1.5 s
Attenuation Accuracy	plus or minus 0.1 dB
Insertion Loss Multimode 50/1	less than 3.2 dB
Insertion Loss Multimode Other	less than 3.9 dB
Return Loss SM	greater than 45 dB
Return Loss SM Analog Class	greater than 60 dB
Return Loss MM 50/1	greater than 35 dB
Polarization Dependent Loss Maximum	0.08 dB
Beam Block Isolation	greater than 90 dB
Maximum Optical Input Power	200 mW
AC Input	90 to 240 Vac 50 to 60 Hz
Power Consumption Maximum	80 VA
Operating Temperature	0 to 40 C
Storage Temperature	minus 40 to 60 C
Remote Interfaces	GPIB and RS-232
Command Set	SCPI compatible
Form Factor	HA series half-rack benchtop
Dimensions Class	21.2 × 8.9 × 35.5 cm
Weight Class	about 3.75 to 4 kg
Wavelength range	750 to 1700 nm

PARAMETER	VALUE
Attenuation	Range: 60 dB
Return loss	SM: greater than 45 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 to 60 C
Operating temperature	0 to 40 C
Operating Temperature	0 to 40 C
Remote Interfaces	GPIB and RS-232
Command Set	SCPI compatible
Form Factor	HA series half-rack benchtop
Dimensions Class	21.2 × 8.9 × 35.5 cm
Weight Class	about 3.75 to 4 kg Notes From JDS HA series OEM comparison table HA9W column. Queue slug HA9-HA9W1+20KFP1 treated as HA9W configured attenuator; confirm connector and option codes on the faceplate.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Instrument Family	JDS Uniphase HA9W
Operating Wavelength Range	750 to 1700 nm
Attenuation Range	60 dB
Attenuation Resolution	0.01 dB
Attenuation Repeatability	plus or minus 0.01 dB
Attenuation Change Rate 0 To 60 dB	less than 1.5 s
Attenuation Accuracy	plus or minus 0.1 dB

Insertion Loss Single-Mode: less than 5.0 dB

Specifications

PARAMETER	VALUE
Insertion Loss Multimode 50/125	less than 3.2 dB
Insertion Loss Multimode Other	less than 3.9 dB
Return Loss SM	greater than 45 dB
Return Loss SM Analog Class	greater than 60 dB
Return Loss MM 50/125	greater than 35 dB
Polarization Dependent Loss Maximum	0.08 dB
Beam Block Isolation	greater than 90 dB
Maximum Optical Input Power	200 mW
AC Input	90 to 240 Vac 50 to 60 Hz
Power Consumption Maximum	80 VA
Operating Temperature	0 to 40 C
Storage Temperature	minus 40 to 60 C
Remote Interfaces	GPIB and RS-232
Command Set	SCPI compatible
Form Factor	HA series half-rack benchtop

PARAMETER	VALUE
Dimensions Class	21.2 x 8.9 x 35.5 cm
Weight Class	about 3.75 to 4 kg

Notes
From JDS HA series OEM comparison table HA9W column. Queue slug HA9-HA9W1+20KFP1 treated as HA9W configured attenuator; confirm connector and option codes on the faceplate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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