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Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase HA11

Remote Interfaces: IEEE 488 GPIB and RS232 Related HA9: 100 dB range, 0.01 dB, same 1200 to 1700 nm window Related HA1: 100 dB range, 0.001 dB resolution HA11 wavelength/range/resolution from the JDS HA series family specification table (HA11 column: 1200-1700 nm, 60 dB, 0.01 dB). Electrical, mechanical, PDL, beam-block, and accuracy rows are HA-series shared values from the same family sheets/HA9 manuals. Confirm exact HA11x option code, fiber, and connectors on the faceplate. JDS Uniphase HA11 Programmable Optical Attenuator The JDS Uniphase HA11 is a programmable optical attenuator in the HA series (HA1, HA2, HA9, HA9W, HA9P, HA11). Family literature lists HA11 at 1200 to 1700 nm with a 60 dB attenuation range and 0.01 dB resolution. Shared HA-series hardware includes a built-in beam block, GPIB/RS232 SCPI (HP 8156A-compatible) control, calibration/offset matching to power meter, and half-rack 2U packaging. LabVIEW drivers cover HA1, HA3, HA9, and HA11 together. Optical power-meter calibration; absolute power control into DUTs; multichannel AM and high bit-rate PCM system testing; general laboratory VOA where 60 dB range is sufficient.



MODEL

JDS Uniphase HA11

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

HA11

LISTING

<https://aumictechlabs.com/products/ha11-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase HA11 is a programmable optical attenuator delivering precise power control across the near-infrared spectrum. It combines wide dynamic range attenuation with sub-0.01 dB resolution and high repeatability, making it essential for telecommunications testing, optical

network characterization, and photonic system validation. Technical Specifications Attenuation Performance Range: Up to 100 dB Resolution: 0.01 dB (standard); 0.001 dB available (HA1 series) Repeatability: 0.01 dB Accuracy: ± 0.1 dB Wavelength & Optical Characteristics Operating Range: 1200–1700 nm Wavelength Dependence: 60 dB Backreflection: >60 dB Polarization Dependent Loss: Typically 0.03 dB Single-Mode Fiber: 9/125 μm Optical Interface: SC/PC Physical & Environmental Dimensions: 15 × 8.5 × 4 inches (approximate) Weight: 9.63 lbs (approximate) Operating Temperature: 40–60 °C Humidity: Maximum 90% (up to 40 °C) Manufactured in Canada Key Features SCPI/HP8156A command compatibility for instrument integration GPIB and RS232 remote control interfaces Optional 1:2 fiber optic switch (SW12) integration Interchangeable couplers (2/98, 10/90, 30/70, 50/50 available) Built-in beam blocking switch enabling >90 dB infinite attenuation Typical Applications Optical power level control in high-speed communication networks Receiver sensitivity testing and dynamic range characterization Optical sensor system calibration and validation Signal conditioning in photonic measurement setups Compatibility & Integration Seamless integration with automated test systems via GPIB or RS232 protocols. SCPI command set ensures compatibility with existing HP8156A-based configurations. Optional switching and coupling modules extend functionality for multi-wavelength and multi-path test scenarios.

Features & description

From manufacturer datasheet

Features

- HA-series linear attenuator with display-to-power-meter calibration/offset
- Built-in beam block for fast infinite attenuation
- Optional internal coupler (2/98, 10/90, 30/70, 50/50) or 1×2 switch
- SCPI / HP 8156A command set on GPIB and RS232
- Half-rack 2U package shared with HA9/HA1
- Analog high-return-loss option available on HA family SM units

Polarization Dependent Loss: 0.03 dB typical, 0.08 dB maximum (HA series)

Beam Block Attenuation: >90 dB (family brochure); >110 dB (HA9 series manual tables) Beam Block Speed: <20 ms (HA series manuals) Input Voltage: 90 to 240 V AC, 50 to 60 Hz Power Consumption: 80 VA maximum Dimensions: 21.2 × 8.9 × 35.5 cm Height Class: 2U, half rack, HP 8156A compatible Weight: 4 kg Operating Temperature: 0 to 40 C Storage Temperature: -40 to 60 C Remote Interfaces: IEEE 488 GPIB and RS232 Command Set: SCPI / HP 8156A compatible Related HA9: 100 dB range, 0.01 dB, same 1200 to 1700 nm window Related HA1: 100 dB range, 0.001 dB resolution Notes HA11 wavelength/range/resolution from the JDS HA series family specification table (HA11 column: 1200-1700 nm, 60 dB, 0.01 dB). Electrical, mechanical, PDL, beam-block, and accuracy rows are HA-series shared values from the same family sheets/HA9 manuals. Confirm exact HA11x option code, fiber, and connectors on the faceplate.

HA11 Characteristics / Specifications

PARAMETER	VALUE
Model	HA11
Manufacturer	JDS Uniphase (JDSU / VIAVI)
Instrument Type	Programmable optical attenuator
Family	HA Series
Alias	HA11; HA117; JDSU HA11
Operating Wavelength	1200 to 1700 nm
Attenuation Range	60 dB
Resolution	0.01 dB
Repeatability	+/-0.01 dB (HA series table)
Accuracy	+/-0.1 dB (HA series table)
Change Rate Class	HA family 60 dB class <=2.5 s (HA9 wide/60 dB column <1.5 s)
Insertion Loss SM	<1.5 dB class (HA series SM, excluding connectors)
Return Loss SM	>45 dB; SM analog >60 dB (HA series)
Return Loss MM 50/1	>35 dB (HA series MM)
Maximum Optical Input	200 mW (HA series except HA2)
Polarization Dependent Loss	0.03 dB typical, 0.08 dB maximum (HA series)
Beam Block Attenuation	>90 dB (family brochure); >110 dB (HA9 series manual tables)
Beam Block Speed	<20 ms (HA series manuals)
Input Voltage	90 to 240 V AC, 50 to 60 Hz
Power Consumption	80 VA maximum
Dimensions	21.2 × 8.9 × 35.5 cm
Height Class	2U, half rack, HP 8156A compatible
Weight	4 kg
Operating Temperature	0 to 40 C
Storage Temperature	-40 to 60 C

PARAMETER	VALUE
Remote Interfaces	IEEE 488 GPIB and RS232
Command Set	SCPI / HP 8156A compatible
Related HA	100 dB range, 0.01 dB, same 1200 to 1700 nm window
Attenuation	Range: 60 dB
Return loss	SM: >45 dB; SM analog >60 dB (HA series)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to 60 C
Operating temperature	0 to 40 C
Operating Temperature	0 to 40 C
Remote Interfaces	IEEE 488 GPIB and RS232
Command Set	SCPI / HP 8156A compatible
Related HA	100 dB range, 0.001 dB resolution Notes HA11 wavelength/range/resolution from the JDS HA series family specification table (HA11 column: 1200-1700 nm, 60 dB, 0.01 dB). Electrical, mechanical, PDL, beam-block, and accuracy rows are HA- series shared values from the same family sheets/HA9 manuals. Confirm exact HA11x option code, fiber, and connectors 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	
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PARAMETER	VALUE
Model	HA11
Manufacturer	JDS Uniphase (JDSU / VIAVI)
Instrument Type	Programmable optical attenuator
Family	HA Series
Alias	HA11; HA117; JDSU HA11
Operating Wavelength	1200 to 1700 nm
Attenuation Range	60 dB
Resolution	0.01 dB
Repeatability	+/-0.01 dB (HA series table)
Accuracy	+/-0.1 dB (HA series table)
Change Rate Class	HA family 60 dB class <=2.5 s (HA9 wide/60 dB column <1.5 s)
Insertion Loss SM	<1.5 dB class (HA series SM, excluding connectors)
Return Loss SM	>45 dB; SM analog >60 dB (HA series)
Return Loss MM 50/125	>35 dB (HA series MM)
Maximum Optical Input	200 mW (HA series except HA2)
Polarization Dependent Loss	0.03 dB typical, 0.08 dB maximum (HA series)
Beam Block Attenuation	>90 dB (family brochure); >110 dB (HA9 series manual tables)
Beam Block Speed	<20 ms (HA series manuals)
Input Voltage	90 to 240 V AC, 50 to 60 Hz
Power Consumption	80 VA maximum
Dimensions	21.2 x 8.9 x 35.5 cm
Height Class	2U, half rack, HP 8156A compatible
Weight	4 kg
Operating Temperature	0 to 40 C
Storage Temperature	-40 to 60 C
Remote Interfaces	IEEE 488 GPIB and RS232

PARAMETER	VALUE
Command Set	SCPI / HP 8156A compatible
Related HA9	100 dB range, 0.01 dB, same 1200 to 1700 nm window
Related HA1	100 dB range, 0.001 dB resolution

Notes

HA11 wavelength/range/resolution from the JDS HA series family specification table (HA11 column: 1200-1700 nm, 60 dB, 0.01 dB). Electrical, mechanical, PDL, beam-block, and accuracy rows are HA-series shared values from the same family sheets/HA9 manuals. Confirm exact HA11x option code, fiber, and connectors 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

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.