

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 7, 2026

JDS UNIPHASE/JDSU

JDS Uniphase HA1503-FPS2 Optical Attenuator JDSU HA1

The JDS Uniphase HA1503-FPS2 is a programmable single-mode optical attenuator delivering ultra-high resolution attenuation control across the extended C- and L-band wavelength ranges. This benchtop instrument provides attenuation up to 100 dB with 0.001 dB resolution and ± 0.1 dB accuracy, making it ideal for precision optical power characterization, signal simulation, and component testing. Front-panel FC/APC bulkhead connectors support direct integration into test setups, while GPIB and RS232 interfaces enable automated remote control via SCPI/HP8156A-compatible commands. Compatibility & Integration Standard configuration includes single-mode 9/125 μm fiber. Optional accessories include 10/90, 50/50, and 2/98 couplers, or a 1:2 switch for expanded test flexibility. Aumictech offers NIST-traceable calibration and repair for the JDS Uniphase/JDSU HA1503-FPS2/HA1. Calibration covers atte



MODEL

**JDS
Uniphase/JDSU
HA1503-FPS2/HA1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HA1503-FPS2/HA1

LISTING

<https://aumictechlabs.com/products/ha1503-fps2-ha1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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This benchtop instrument provides attenuation up to 100 dB with 0.001 dB resolution and ± 0.1 dB accuracy, making it ideal for precision optical power characterization, signal simulation, and component testing. Front-panel FC/APC bulkhead connectors support direct integration into test setups, while GPIB and RS232 interfaces enable automated remote control via SCPI/HP8156A-compatible commands.

Technical Specifications

- Wavelength Range: 1200 nm to 1700 nm
- Attenuation Range: Up to 100 dB
- Attenuation Resolution: 0.001 dB
- Accuracy: ± 0.1 dB
- Repeatability: 0.01 dB
- Insertion Loss: 60 dB
- Polarization Dependent Loss (PDL): 0.03 dB typical
- Wavelength Dependence: 90 dB infinite attenuation
- Dual control: front-panel keypad or remote via GPIB (IEEE 488.2) and RS232 SCPI/HP8156A command compatibility for integration with automated test systems
- Minimized discrete internal optical reflections and virtually eliminated cavity effects

Compact benchtop design with optional coupler and switch configurations

Typical Applications

- Power meter testing and linearity calibration
- Bit error rate (BER) and analog transmission testing
- Loss simulation in fiber optic link characterization
- EDFA output power analysis
- Multichannel AM system evaluation
- High bit-rate digital pulse code testing

Compatibility & Integration

Standard configuration includes single-mode 9/125 μm fiber. Optional accessories include 10/90, 50/50, and 2/98 couplers, or a 1:2 switch for expanded test flexibility.

Features & description

From manufacturer datasheet

Features

- Family: HA1 (high resolution); wavelength 1200–1700 nm • Fiber: single-mode 9/125 μm • Attenuation range: 100 dB; resolution 0.001 dB (HA1) • Accuracy: ± 0.1 dB max class; repeatability ± 0.01 dB • Change rate: < 2.5 s for 0–100 dB • Insertion loss SM: < 1.5 dB class (connectorized) • Return loss: standard > 45 dB; analog options > 60 dB • Max optical input: 200 mW • Beam block: > 90 dB class isolation • Interfaces: GPIB (IEEE 488.2), RS-232; SCPI • Configuration HA1503-FPS2: HA15/HA1 generation; FPS2 connector/port coding (FC/PC-class front bulkheads—confirm faceplate; related FAS2 is FC/APC)

HA1503FPS2HA1 Characteristics / Specifications

PARAMETER	VALUE
Model	HA1503-FPS2
Manufacturer	JDS Uniphase (JDS Fitel / JDSU / VIAVI)
Instrument Type	Programmable Optical Attenuator
Family	HA1 (high resolution); wavelength 1200–1700 nm
Alias	HA1503-FPS2; HA1 HA1503-FPS2 Optical 1200–1700 nm SM; 100 dB; 0.001 dB resolution; 200 mW max Operational Notes Prefer JDS HA Series specifications / user manual. Decode exact connector from unit label (FPS2 vs FAS2).
Fiber	single-mode 9/125 μm
Attenuation range	100 dB; resolution 0.001 dB (HA1)
Accuracy	± 0.1 dB max class; repeatability ± 0.01 dB
Change rate	< 2.5 s for 0–100 dB
Insertion loss SM	< 1.5 dB class (connectorized)
Return loss	standard > 45 dB; analog options > 60 dB
Max optical input	200 mW
Beam block	> 90 dB class isolation
Interfaces	GPIB (IEEE 488.2), RS-232; SCPI
Configuration HA1503-FPS2	HA15/HA1 generation; FPS2 connector/port coding (FC/PC-class front bulkheads—confirm faceplate; related FAS2 is FC/APC)
Attenuation	range: 100 dB; resolution 0.001 dB (HA1) - Accuracy: ± 0.1 dB max class; repeatability ± 0.01 dB - Change rate: < 2.5 s for 0–100 dB - Insertion loss SM: < 1.5 dB class (connectorized) - Return loss: standard > 45 dB; analog options > 60 dB - Max optical i

HA1503FPS2HA1 Specifications

PARAMETER	VALUE
Key Features	- Family: HA1 (high resolution); wavelength 1200–1700 nm
Technical Specifications	Model: HA1503-FPS2
Optical	1200–1700 nm SM; 100 dB; 0.001 dB resolution; 200 mW max
Operational Notes	Prefer JDS HA Series specifications / user manual. Decode exact connector from unit label (FPS2 vs FAS2).

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
Model	HA1503-FPS2
Manufacturer	JDS Uniphase (JDS Fitel / JDSU / VIAVI)
Instrument Type	Programmable Optical Attenuator
Family	HA1 / HA15 Series
Alias	HA1503-FPS2; HA1 HA1503-FPS2

Optical

1200–1700 nm SM; 100 dB; 0.001 dB resolution; 200 mW max

Operational Notes

Prefer JDS HA Series specifications / user manual. Decode exact connector from unit label (FPS2 vs FAS2).

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.