

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

JDS UNIPHASE

JDS Uniphase HA1 - HA1503-046

The JDS Uniphase HA1503-046 is a optical attenuator engineered for precise power control across telecommunications and data networking systems. This single-mode fiber attenuator delivers attenuation to 100 dB with 0.001 dB resolution and ± 0.1 dB accuracy, enabling demanding metrology tasks including bit error rate testing, power meter calibration, and fiber link loss simulation. The device combines wide wavelength coverage, low insertion loss, and exceptional return loss performance with both front-panel keypad control and remote command capability via GPIB and RS232 interfaces. Aumictech offers NIST-traceable calibration and repair for the JDS Uniphase HA1503-046. Calibration covers attenuation accuracy at 5 or more set values across the full range (0 to rated maximum dB), attenuation linearity, wavelength-dependent attenuation at 1310 nm, 1490 nm, and 1550 nm, insertion loss at minimum



MODEL

**JDS Uniphase
HA1503-046**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HA1503-046

LISTING

<https://aumictechlabs.com/products/ha1503-046-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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simulation. The device combines wide wavelength coverage, low insertion loss, and exceptional return loss performance with both front-panel keypad control and remote command capability via GPIB and RS232 interfaces. Technical Specifications Attenuation Range: Up to 100 dB Attenuation Resolution: 0.001 dB Accuracy: ± 0.1 dB Repeatability: 0.01 dB Wavelength Range: 1200–1700 nm Fiber Type: Single-mode (9/125 μm) Insertion Loss: 60 dB Wavelength Dependence: 60 dB Connector Type: FC/APC bulkhead ports Key Features Ultra-high resolution attenuation control at 0.001 dB increments Integrated beam blocking switch for fast access to >90 dB attenuation Low PDL (0.03 dB) ensures minimal polarization-dependent variations Cavity effects virtually eliminated for stable, repeatable measurements SCPI/HP8156A command compatibility for instrument integration Optional accessory support including directional couplers and 1:2 fiber switch Typical Applications Power meter linearity calibration Bit error rate (BER) characterization EDFA output power optimization DWDM system characterization Loss simulation in fiber optic links Analog transmission testing High bit-rate PCM systems Multichannel AM systems Compatibility & Integration Remote control via GPIB (IEEE 488.2) and RS232 SCPI command set with HP8156A compatibility Front-panel keypad operation for standalone use

Features & description

From manufacturer datasheet

Built-in beam block

GPIB and RS-232 SCPI control Optional couplers and 1:2 switch Technical Specifications Instrument Family: JDS Uniphase HA1 Operating Wavelength Range: 1200 to 1700 nm Attenuation Range: 100 dB Attenuation Resolution: 0.001 dB Attenuation Repeatability: plus or minus 0.01 dB Attenuation Change Rate 0 To 100 dB: less than 2.5 s Attenuation Accuracy: plus or minus 0.1 dB Insertion Loss Single-Mode: less than 1.5 dB Return Loss SM Analog Class: greater than 60 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 Dimensions Class: 21.2 × 8.9 × 35.5 cm Weight Class: about 4 kg Operating Temperature: 0 to 40 C Storage Temperature: minus 40 to 60 C Remote Interfaces: GPIB and RS-232 Command Set: SCPI compatible Optional Couplers: 50/50 10/90 30/70 2/98 Optional Switch: 1:2 Recalibration Period Recommended: 1 year Notes Queue HA1503-046 is an HA1-family configured attenuator; numeric rows from HA1 OEM column. Confirm faceplate options.

HA1503046 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	JDS Uniphase HA1
Operating Wavelength Range	1200 to 1700 nm
Attenuation Range	100 dB
Attenuation Resolution	0.001 dB
Attenuation Repeatability	plus or minus 0.01 dB
Attenuation Change Rate 0 To 100 dB	less than 2.5 s
Attenuation Accuracy	plus or minus 0.1 dB
Return Loss SM Analog Class	greater than 60 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
Dimensions Class	21.2 × 8.9 × 35.5 cm
Weight Class	about 4 kg
Operating Temperature	0 to 40 C
Storage Temperature	minus 40 to 60 C
Remote Interfaces	GPIB and RS-232
Command Set	SCPI compatible
Recalibration Period Recommended	1 year
Wavelength range	1200 to 1700 nm
Attenuation	Range: 100 dB
Return loss	SM Analog Class: greater than 60 dB

HA1503046 Specifications

PARAMETER	VALUE
Key Features	0.001 dB attenuation resolution
Technical Specifications	Instrument Family: JDS Uniphase HA1
Notes	Queue HA1503-046 is an HA1-family configured attenuator; numeric rows from HA1 OEM column. Confirm faceplate options.

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
Recalibration Period Recommended	1 year Notes Queue HA1503-046 is an HA1-family configured attenuator; numeric rows from HA1 OEM column. Confirm faceplate options.

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 HA1
Operating Wavelength Range	1200 to 1700 nm
Attenuation Range	100 dB
Attenuation Resolution	0.001 dB
Attenuation Repeatability	plus or minus 0.01 dB
Attenuation Change Rate 0 To 100 dB	less than 2.5 s
Attenuation Accuracy	plus or minus 0.1 dB

Insertion Loss Single-Mode: less than 1.5 dB

Specifications

PARAMETER	VALUE
Return Loss SM Analog Class	greater than 60 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
Dimensions Class	21.2 x 8.9 x 35.5 cm
Weight Class	about 4 kg
Operating Temperature	0 to 40 C
Storage Temperature	minus 40 to 60 C
Remote Interfaces	GPIO and RS-232
Command Set	SCPI compatible

Optional Couplers: 50/50 10/90 30/70 2/98
Optional Switch: 1:2
Recalibration Period Recommended: 1 year

Notes
Queue HA1503-046 is an HA1-family configured attenuator; numeric rows from HA1 OEM column. Confirm faceplate

options.

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.