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Data Sheet

August 14, 2026

JDS UNIPHASE

JDS Uniphase HA9-Z040

The JDS Uniphase HA9-Z040 is an extended range programmable optical attenuator delivering precise attenuation control across the C and L bands. It has 0 to 100 dB attenuation with 0.01 dB resolution and repeatability, supporting wavelengths from 1200 nm to 1700 nm. The unit achieves ± 0.1 dB accuracy and maintains wavelength dependence below ± 0.05 dB across the 1530–1625 nm range, making it ideal for power meter testing, linearity calibration, fiber link loss simulation, and bit error rate measurements. Wavelength range: 1200 nm to 1700 nm (standard); 750 nm to 1700 nm optional (HA9W, 60 dB max) Beam blocking switch provides fast transition to >90 dB attenuation from any setting Front-panel universal connector adapters supporting FC/PC, SC/PC, ST/PC, FC/APC, and SC/APC



MODEL

**JDS Uniphase
HA9-Z040**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HA9-Z040

LISTING

<https://aumictechlabs.com/products/ha9-z040-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase HA9-Z040 is an extended range programmable optical attenuator delivering precise attenuation control across the C and L bands. It has 0 to 100 dB attenuation with 0.01 dB resolution and repeatability, supporting wavelengths from 1200 nm to 1700 nm. The unit achieves ± 0.1 dB accuracy and maintains wavelength dependence below ± 0.05 dB across the 1530–1625 nm range, making it ideal for power meter testing, linearity calibration, fiber link loss simulation, and bit error rate measurements. Technical Specifications Attenuation range: 0 to 100 dB

Resolution: 0.01 dB Repeatability: 0.01 dB Accuracy: ± 0.1 dB Wavelength range: 1200 nm to 1700 nm (standard); 750 nm to 1700 nm optional (HA9W, 60 dB max) Wavelength dependence: $< \pm 0.05$ dB (1530–1625 nm) Insertion loss (single-mode): 60 dB return Cavity effects: Virtually eliminated Input power: 90–240 V AC, 50–60 Hz Power consumption: 80 VA maximum Key Features Beam blocking switch provides fast transition to >90 dB attenuation from any setting Optional integrated couplers (2/98, 10/90, 30/70, 50/50 ratios) Optional 1:2 optical fiber switch (SW12) Front-panel universal connector adapters supporting FC/PC, SC/PC, ST/PC, FC/APC, and SC/APC 5 V rear panel output for external switch control Control Interfaces Front panel keypad GPIB (IEEE 488.2) RS232C SCPI/HP8156A compatible command set LabVIEW drivers supplied Software compatibility with HP 8157A attenuator Typical Applications Power meter calibration and verification Linearity testing Fiber optic link loss simulation Bit error rate curve measurement Erbium-doped fiber amplifier testing

Features & description

From manufacturer datasheet

Built-in beam block greater than 90 dB

GPIB and RS-232 SCPI remote control Optional couplers and 1:2 switch Technical Specifications
Instrument Family: JDS Uniphase HA9 Operating Wavelength Range: 1200 to 1700 nm Attenuation
Range: 100 dB Attenuation Resolution: 0.01 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 (excludes connectors switch coupler) Insertion Loss
Multimode 50/125: less than 2.2 dB Insertion Loss Multimode Other: less than 2.9 dB Return Loss SM
Standard: greater than 45 dB Return Loss SM Analog Option: greater than 60 dB Return Loss MM
50/125: greater than 35 dB Return Loss MM Other: greater than 30 dB

Polarization Dependent Loss Maximum: 0.08 dB

Beam Block Isolation: greater than 90 dB Maximum Optical Input Power: 200 mW Wavelength
Dependence 0 To 20 dB Attenuation HA2 Class Reference: plus or minus 0.05 dB (1530-1625 nm table)
AC Input: 90 to 240 Vac 50 to 60 Hz Power Consumption Maximum: 80 VA DimensionsWxHxDClass:
21.2 × 8.9 × 35.5 cm half-rack class Weight Class: about 3.75 to 4 kg Operating Temperature: 0 to 40 C
Storage Temperature: minus 40 to 60 C Remote Interfaces: GPIB IEEE-488 and RS-232 Command Set:
SCPI / HP8156A compatible class Optional Coupler Codes: 50/50 10/90 30/70 2/98 Optional Switch: 1:2
SW12 Notes HA9-Z040 special fiber/config code; numeric rows from HA9 OEM table.

HA9Z040 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	JDS Uniphase HA9
Operating Wavelength Range	1200 to 1700 nm
Attenuation Range	100 dB
Attenuation Resolution	0.01 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 Multimode 50/1	less than 2.2 dB
Insertion Loss Multimode Other	less than 2.9 dB
Return Loss SM Standard	greater than 45 dB
Return Loss SM Analog Option	greater than 60 dB
Return Loss MM 50/1	greater than 35 dB
Return Loss MM Other	greater than 30 dB
Polarization Dependent Loss Maximum	0.08 dB
Beam Block Isolation	greater than 90 dB
Maximum Optical Input Power	200 mW
Wavelength Dependence 0 To 20 dB Attenuation HA2 Class Reference	plus or minus 0.05 dB (1530-1625 nm table)
AC Input	90 to 240 Vac 50 to 60 Hz
Power Consumption Maximum	80 VA
DimensionsWxHxDClass	21.2 × 8.9 × 35.5 cm half-rack class
Weight Class	about 3.75 to 4 kg
Operating Temperature	0 to 40 C
Storage Temperature	minus 40 to 60 C
Remote Interfaces	GPIB IEEE-488 and RS-232
Command Set	SCPI / HP8156A compatible class

PARAMETER	VALUE
Wavelength range	1200 to 1700 nm
Attenuation	Range: 100 dB
Return loss	SM Standard: 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 IEEE-488 and RS-232
Command Set	SCPI / HP8156A compatible class

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 HA9
Operating Wavelength Range	1200 to 1700 nm
Attenuation Range	100 dB
Attenuation Resolution	0.01 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 (excludes connectors switch coupler)	
Specifications	
PARAMETER	VALUE
Insertion Loss Multimode 50/125	less than 2.2 dB
Insertion Loss Multimode Other	less than 2.9 dB
Return Loss SM Standard	greater than 45 dB
Return Loss SM Analog Option	greater than 60 dB
Return Loss MM 50/125	greater than 35 dB
Return Loss MM Other	greater than 30 dB
Polarization Dependent Loss Maximum	0.08 dB
Beam Block Isolation	greater than 90 dB
Maximum Optical Input Power	200 mW
Wavelength Dependence 0 To 20 dB Attenuation HA2 Class Reference: plus or minus 0.05 dB (1530-1625 nm table)	
Specifications	
PARAMETER	VALUE
AC Input	90 to 240 Vac 50 to 60 Hz
Power Consumption Maximum	80 VA
DimensionsWxHxDClass	21.2 x 8.9 x 35.5 cm half-rack class

PARAMETER	VALUE
Weight Class	about 3.75 to 4 kg
Operating Temperature	0 to 40 C
Storage Temperature	minus 40 to 60 C
Remote Interfaces	GPiB IEEE-488 and RS-232
Command Set	SCPI / HP8156A compatible class

Optional Coupler Codes: 50/50 10/90 30/70 2/98

Optional Switch: 1:2 SW12

Notes

HA9-Z040 special fiber/config code; numeric rows from HA9 OEM table.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.