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Data Sheet

August 14, 2026

JDS UNIPHASE

JDS Uniphase HA9 - HA097E+10KFP1

JDS Uniphase Optical Attenuators. Resolution: ** 0.01 dB nominal, Accuracy: ** ± 0.1 dB.

MODEL

**JDS Uniphase HA9
- HA097E+10KFP1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**HA9 -
HA097E+10KFP1**

LISTING

<https://aumictechlabs.com/products/ha9-ha097e-10kfp1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase HA9 HA097E+10KFP1 is a programmable optical attenuator engineered for precision optical power control in laboratory and field test environments. It delivers up to 100 dB attenuation with 0.01 dB resolution and ± 0.1 dB accuracy, enabling reliable performance across power meter calibration, bit error rate testing, loss simulation, and DWDM system characterization. Technical Specifications Attenuation Range: 0–100 dB Resolution: 0.01 dB nominal Accuracy: ± 0.1 dB Repeatability: 0.01 dB Wavelength Range: 1200–1700 nm standard Polarization Dependent Loss (PDL): 0.03 dB typical Wavelength Dependence: 90 dB fast-access attenuation High return loss and low spectral ripple suitable for CATV AM systems Typical Applications Power meter linearity calibration Bit error rate (BER) testing Analog transmission characterization Optical loss simulation in fiber links EDFA output power characterization Multichannel AM systems High bit-rate PCM systems DWDM system characterization Compatibility & Integration The attenuator accepts GPIB and RS232 control protocols, enabling integration into automated test benches and system-level measurement setups. Command syntax

aligns with HP8156A standards, supporting straightforward migration within existing HP/Agilent-compatible test frameworks.

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 HA097E+10KFP1 configuration of HA9; numeric rows from HA9 OEM table.

HA9HA097E10KFP1 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
HA097E+10KFP1 configuration of HA9; 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.