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Data Sheet

August 14, 2026

JDS UNIPHASE

JDS Uniphase HA97E+10KSU1

JDS Uniphase Optical Attenuators. Resolution: ** 0.01 dB nominal, Accuracy: ** ± 0.03 dB typical.



MODEL

**JDS Uniphase
HA97E+10KSU1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HA97E+10KSU1

LISTING

<https://aumictechlabs.com/products/ha97e-10ksu1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase HA97E+10KSU1 is a programmable optical attenuator for precise control of optical power across telecommunications and laboratory environments. It delivers attenuation up to 100 dB with 0.01 dB resolution and ± 0.03 dB typical accuracy, making it suitable for power meter calibration, BER testing, and EDFA characterization. The unit accepts front-panel keypad control, GPIB, and RS232 commands via SCPI/HP8156A-compatible protocol. SC/APC connectors provide optical interfacing, with optional internal couplers (10/90, 50/50, 2/98, 30/70) and 1:2 switch capability for multi-port applications. Technical Specifications Wavelength Range: 1200 nm to 1700 nm (standard); 750 nm to 1700 nm (wide range with 60 dB maximum attenuation) Attenuation Range: Up to 100 dB (60 dB for wide wavelength option) Attenuation Resolution: 0.01 dB nominal Attenuation Accuracy: ± 0.03 dB typical; ± 0.1 dB maximum at constant temperature, wavelength, and polarization after 30-minute warm-up Repeatability: ± 0.005 dB typical; ± 0.01 dB maximum Insertion Loss: Typically 2.5 dB (including connectors) Return Loss: >60 dB (analog) Polarization Dependent Loss (PDL): 0.03 dB typical; 0.08 dB maximum Maximum Input Power:

200 mW Change Rate: ≤ 2.5 seconds (0 to 100 dB) Beam Block Attenuation: > 110 dB Beam Block Speed: < 20 ms Discrete Internal Optical Reflections: Better than 60 dB Key Features Single-mode 9/125 μm fiber compatibility Minimized cavity effects and spectral ripple Low wavelength dependence ($\leq \pm 0.05$ dB over 1530–1625 nm) Front-panel SC/APC bulkhead connectors 5 V driver key for external or internal switch control Typical Applications Optical power meter linearity calibration Bit error rate (BER) testing Analog transmission characterization EDFA output power analysis Fiber optic link loss simulation Multichannel AM system evaluation Compatibility & Integration Optional couplers and switches integrate directly into the attenuator, providing output taps or access to dual inputs/outputs without external hardware. SCPI command compatibility simplifies integration into existing automated test environments.

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 HA97E+10KSU1 configuration of HA9; numeric rows from HA9 OEM table.

HA97E10KSU1 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
HA97E+10KSU1 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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.