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Data Sheet

August 7, 2026

JDS UNIPHASE/JDSU

JDS Uniphase JDSU HA9 HA097+21KFP1 Programmable Attenuator

JDS Uniphase/JDSU Optical Attenuators. Resolution: 0.01 dB, Accuracy: ± 0.03 dB typical.

MODEL

**JDS Uniphase/JDSU
HA9/HA097+21KFP1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HA9/HA097+21KFP1

LISTING

**[https://aumictechlabs.
com/products/ha9-ha
097-21kfp1-2/](https://aumictechlabs.com/products/ha9-ha097-21kfp1-2/)**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase JDSU HA9 HA097+21KFP1 is a programmable optical attenuator that delivers precise, fine-grained control of optical signal strength across telecommunications, fiber optic test, and laboratory applications. Operating across single-mode fiber, this instrument provides attenuation up to 100 dB with 0.01 dB resolution and ± 0.03 dB typical accuracy. Front-panel keypad control, GPIB (IEEE 488.2), and RS232 interfaces with SCPI/HP8156A command compatibility enable flexible integration into automated test systems. Low insertion loss, high return loss exceeding 60 dB, and minimal polarization-dependent loss preserve signal integrity across demanding measurement scenarios. Technical Specifications Wavelength Range: 1200–1700 nm (750–1700 nm optional) Attenuation Range: Up to 100 dB Attenuation Resolution: 0.01 dB Attenuation Accuracy: ± 0.03 dB typical Insertion Loss: 2.5 dB (including connectors) Return Loss: > 60 dB Polarization Dependent Loss: Typically 0.03 dB Wavelength Dependence: ± 0.05 dB over 1530–1625 nm Fiber Type: Single-mode (9/125 μm) Input Power: 200 mW Connector Options:

SC/PC, FC/PC, ST (m)Key Features High-resolution 0.01 dB attenuation steps for fine signal control Multiple control interfaces: front-panel keypad, GPIB, and RS232 SCPI/HP8156A command compatibility for test automation Configurable with integrated couplers (2/98, 10/90, 30/70, 50/50) or 1×2 switch Minimal PDL and tight wavelength dependence for C-band and L-band operationTypical Applications Bit error rate (BER) and receiver sensitivity testing Loss simulation in fiber optic link characterization EDFA output power and gain measurement Amplifier performance evaluation DWDM system and multichannel AM system testing High bit-rate PCM system validation Optical power meter calibration and testingCompatibility & Integration The attenuator accepts command sequences via SCPI or HP8156A protocols, enabling direct integration with existing test frameworks. SC/PC, FC/PC, and ST connector options accommodate standard telecommunications infrastructure. Optional coupler and switch configurations extend functionality for tap-monitoring or dual-path measurement scenarios.

HA9HA09721KFP1 Characteristics / Specifications

PARAMETER	VALUE
Model	HA9 / HA097+21KFP1
Manufacturer	JDS Uniphase (JDSU / VIAVI)
Instrument Type	Programmable Optical Attenuator
Family	HA9 Series
Alias	HA097+21KFP1; HA9 HA097+21KFP1 Optical 1200–1700 nm SM; 100 dB; 0.01 dB; FC/PC front Operational Notes Prefer JDS HA Series specs. Verify option 21 optics (coupler/switch/none) on the physical unit.
Wavelength	1200–1700 nm
Fiber	SM 9/125 μ m
Attenuation	100 dB; resolution 0.01 dB
IL SM	<1.5 dB class; RL standard (K) >45 dB
Max input	200 mW; PDL 0.03 dB typ / 0.08 dB max
Option code 21	built-in option present (confirm coupler/switch on label–digit 1 family options)
Return loss	FP: FC/PC connectors - 1: bulkheads on front

HA9HA09721KFP1 Specifications

PARAMETER	VALUE
Key Features (HA9 family)	- Wavelength: 1200–1700 nm
Technical Specifications	Model: HA9 / HA097+21KFP1
Optical	1200–1700 nm SM; 100 dB; 0.01 dB; FC/PC front
Operational Notes	Prefer JDS HA Series specs. Verify option 21 optics (coupler/switch/none) on the physical unit.

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	HA9 / HA097+21KFP1
Manufacturer	JDS Uniphase (JDSU / VIAVI)
Instrument Type	Programmable Optical Attenuator
Family	HA9 Series
Alias	HA097+21KFP1; HA9 HA097+21KFP1

Optical

1200–1700 nm SM; 100 dB; 0.01 dB; FC/PC front

Operational Notes

Prefer JDS HA Series specs. Verify option 21 optics (coupler/switch/none) on the physical unit.

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.