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**Data Sheet**

August 14, 2026

JDS UNIPHASE

# JDS Uniphase HA092+29KSC1

JDS Uniphase Optical Attenuators. Resolution: \*\* 0.01 dB nominal, Accuracy: \*\*  $\pm 0.1$  dB.

MODEL

**JDS Uniphase  
HA092+29KSC1**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**HA092+29KSC1**

LISTING

<https://aumictechlabs.com/products/ha092-29ksc1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The JDS Uniphase HA092+29KSC1 is a variable optical attenuator engineered for precise signal control in telecommunications and data networking test environments. This device delivers fine-grain attenuation adjustment with exceptional accuracy, enabling reliable characterization of optical systems across C- and L-band wavelengths. It supports remote instrument control via GPIB and RS232 interfaces, executing SCPI-compatible commands for automated test sequences.

Technical Specifications Attenuation Range: 50 dB, 60 dB, or 100 dB configurations Resolution: 0.01 dB nominal Accuracy:  $\pm 0.1$  dB Repeatability: 0.01 dB Operating Wavelength Range: 1200–1700 nm (standard); 750–1700 nm (HA9W variant, 60 dB max) Polarization Dependent Loss (PDL): Typical 0.03 dB Wavelength Dependence:  $\pm 0.05$  dB over 1530–1625 nm Return Loss: Better than 60 dB Optical Reflections: Internal reflections better than 60 dB Insertion Loss: Low High Power Input: Up to 1000 mW (30 dBm) Key Features Inherently linear design matches optical power meter display across wide dynamic range Virtually eliminated cavity effects ensure stable attenuation performance Discrete internal reflections minimized to maintain signal integrity SCPI/HP8156A command compatibility for seamless integration into test automation frameworks

Compact hermetic packaging Typical Applications Power meter linearity calibration Loss simulation in fiber optic links EDFA output power characterization DWDM system characterization Bit error rate testing Analog transmission analysis High bit-rate PCM system testing Multi-channel AM system evaluation Compatibility & Integration Dual remote control via GPIB and RS232 connections enables integration into mixed legacy and modern instrument racks. SCPI command compatibility ensures code portability across HP8156A-compatible platforms.

## Features & description

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From manufacturer datasheet

### Built-in beam block

GPIB and RS-232 SCPI control HA9 optional coupler and switch options Technical Specifications  
Instrument Family: JDS Uniphase HA9 Model Code: 09 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 Insertion Loss MM 50/125: less than 2.2 dB Return Loss SM: greater than 45 dB Return Loss SM Analog: greater than 60 dB

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### 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 WxHxD: 21.2 × 8.9 × 35.5 cm Weight: 4 kg Operating Temperature: 0 to 40 C Storage Temperature: minus 40 to 60 C Remote Interfaces: GPIB and RS-232 Queue Example Code: HA092+29KSC1 Notes From JDS HA series OEM specification columns for HA9. Confirm exact fiber/port/connector decoding of HA092+29KSC1 on the unit label.

## HA09229KSC1 Characteristics / Specifications

| PARAMETER                           | VALUE                     |
|-------------------------------------|---------------------------|
| Instrument Family                   | JDS Uniphase HA9          |
| Model Code                          | 09 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          |
| Insertion Loss MM 50/1              | less than 2.2 dB          |
| Return Loss SM                      | greater than 45 dB        |
| Return Loss SM Analog               | greater than 60 dB        |
| Polarization Dependent Loss Typical | 0.03 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 WxHxD                    | 21.2 × 8.9 × 35.5 cm      |
| Weight                              | 4 kg                      |
| Operating Temperature               | 0 to 40 C                 |
| Storage Temperature                 | minus 40 to 60 C          |
| Remote Interfaces                   | GPIB and RS-232           |
| Queue Example Code                  | HA092+29KSC1              |
| Wavelength range                    | 1200 to 1700 nm           |

| PARAMETER   | VALUE                  |
|-------------|------------------------|
| Attenuation | Range: 100 dB          |
| Return loss | SM: greater than 45 dB |

# HA09229KSC1 Specifications

| PARAMETER                                          | VALUE                                                                                                                                |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| JDS Uniphase HA092 Programmable Optical Attenuator | Overview                                                                                                                             |
| Key Features                                       | 100 dB attenuation range                                                                                                             |
| Technical Specifications                           | Instrument Family: JDS Uniphase HA9                                                                                                  |
| Notes                                              | From JDS HA series OEM specification columns for HA9. Confirm exact fiber/port/connector decoding of HA092+29KSC1 on the unit label. |

# 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                                                                                                                                         |
| Queue Example Code    | HA092+29KSC1 Notes From JDS HA series OEM specification columns for HA9. Confirm exact fiber/port/connector decoding of HA092+29KSC1 on the unit label. |

# 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          |
| Model Code                          | 09 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          |
| Insertion Loss MM 50/125            | less than 2.2 dB          |
| Return Loss SM                      | greater than 45 dB        |
| Return Loss SM Analog               | greater than 60 dB        |
| Polarization Dependent Loss Typical | 0.03 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 WxHxD                    | 21.2 x 8.9 x 35.5 cm      |
| Weight                              | 4 kg                      |
| Operating Temperature               | 0 to 40 C                 |
| Storage Temperature                 | minus 40 to 60 C          |
| Remote Interfaces                   | GPIB and RS-232           |
| Queue Example Code                  | HA092+29KSC1              |

#### Notes

From JDS HA series OEM specification columns for HA9. Confirm exact fiber/port/connector decoding of HA092+29KSC1 on the unit label.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.