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Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 14, 2026

JDS UNIPHASE

# JDS Uniphase HA11 - HA117+20ASC1

JDS Uniphase Optical Attenuators. Wavelength: \*\* 1200–1700 nm, Resolution: \*\* 0.01 dB, Accuracy: \*\*  $\pm 0.01$  dB.



MODEL

**JDS Uniphase  
HA11-  
HA117+20ASC1**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**HA11-  
HA117+20ASC1**

LISTING

<https://aumictechlabs.com/products/ha11-ha117-20asc1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The JDS Uniphase HA11-HA117+20ASC1 is a programmable single-mode optical attenuator engineered for precision power control across the 1200–1700 nm wavelength range. This instrument delivers 0.01 dB resolution and  $\pm 0.01$  dB accuracy, making it essential for telecommunications testing, optical research, and network maintenance where signal attenuation must be controlled with exacting precision. Technical Specifications Fiber Type: Single-mode (9/125  $\mu$ m) Operating Wavelength: 1200–1700 nm Attenuation Range: 60 dB Attenuation Resolution: 0.01 dB Attenuation Accuracy:  $\pm 0.01$  dB Insertion Loss: 60 dB Polarization Dependent Loss (PDL): 0.08 dB max Maximum Optical Input Power: 500 mW Optical Connectors: SC/PC bulkhead ports Key Features Front-panel keypad control with GPIB (IEEE 488.2) and RS232 interfaces SCPI/HP8156A command compatibility for automated test environments Factory-calibrated to OEM specifications with calibration certificate and data provided Low insertion loss and high return loss minimize system reflections Controlled PDL performance supports

polarization-sensitive applications Typical Applications Optical power control and loss simulation in fiber-optic links Power meter linearity calibration and characterization EDFA output power measurement and optimization Analog transmission and bit error rate testing Network maintenance and optical signal conditioning Compatibility & Integration The HA11-HA117+20ASC1 integrates into existing fiber-optic systems via standard SC/PC connectors. Multiple control interfaces - front panel, GPIB, and RS232 - enable both standalone operation and integration into automated measurement systems. SCPI command compatibility ensures straightforward adaptation to legacy and modern test frameworks.

## Features & description

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From manufacturer datasheet

### **Polarization Dependent Loss Maximum: 0.08 dB**

Beam Block Isolation: greater than 90 dB Maximum Optical Input Power: 500 mW Return Loss SM  
Analog Class: greater than 60 dB AC Input: 90 to 240 Vac 50 to 60 Hz Power Consumption Maximum:  
80 VA Operating Temperature: 0 to 40 C Storage Temperature: minus 40 to 60 C Remote Interfaces:  
GPIB and RS-232 Command Set: SCPI compatible Form Factor: HA series half-rack benchtop Series  
Comparison Source: JDS HA attenuator OEM table Notes Queue HA117+20ASC1 treated as HA11  
configured attenuator; numeric rows from HA11 OEM column.

# HA11HA11720ASC1 Characteristics / Specifications

| PARAMETER                           | VALUE                               |
|-------------------------------------|-------------------------------------|
| Instrument Family                   | JDS Uniphase HA11                   |
| Operating Wavelength Range          | 1200 to 1700 nm                     |
| Attenuation Range                   | 60 dB                               |
| Attenuation Resolution              | 0.01 dB                             |
| Attenuation Repeatability           | plus or minus 0.01 dB               |
| Attenuation Change Rate 0 To 60 dB  | less than 1.5 s                     |
| Attenuation Accuracy                | plus or minus 0.1 dB                |
| Polarization Dependent Loss Maximum | 0.08 dB                             |
| Beam Block Isolation                | greater than 90 dB                  |
| Maximum Optical Input Power         | 500 mW                              |
| Return Loss SM Analog Class         | greater than 60 dB                  |
| AC Input                            | 90 to 240 Vac 50 to 60 Hz           |
| Power Consumption Maximum           | 80 VA                               |
| Operating Temperature               | 0 to 40 C                           |
| Storage Temperature                 | minus 40 to 60 C                    |
| Remote Interfaces                   | GPIB and RS-232                     |
| Command Set                         | SCPI compatible                     |
| Form Factor                         | HA series half-rack benchtop        |
| Series Comparison Source            | JDS HA attenuator OEM table         |
| Wavelength range                    | 1200 to 1700 nm                     |
| Attenuation                         | Range: 60 dB                        |
| Return loss                         | SM Analog Class: greater than 60 dB |

# HA11HA11720ASC1 Specifications

| PARAMETER                               | VALUE                                                                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Applications                            | Laboratory and ATE optical power control where higher input power handling than standard HA9 is required within a 60 dB range. |
| Key Features                            | 60 dB attenuation range                                                                                                        |
| Beam block isolation greater than 90 dB | GPIB/RS-232 SCPI family control                                                                                                |
| Technical Specifications                | Instrument Family: JDS Uniphase HA11                                                                                           |
| Notes                                   | Queue HA117+20ASC1 treated as HA11 configured attenuator; numeric rows from HA11 OEM column.                                   |

# 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                                                                                                                |
| Command Set              | SCPI compatible                                                                                                                |
| Form Factor              | HA series half-rack benchtop                                                                                                   |
| Series Comparison Source | JDS HA attenuator OEM table Notes Queue HA117+20ASC1 treated as HA11 configured attenuator; numeric rows from HA11 OEM column. |

# 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 HA11            |
| Operating Wavelength Range                                                                   | 1200 to 1700 nm              |
| Attenuation Range                                                                            | 60 dB                        |
| Attenuation Resolution                                                                       | 0.01 dB                      |
| Attenuation Repeatability                                                                    | plus or minus 0.01 dB        |
| Attenuation Change Rate 0 To 60 dB                                                           | less than 1.5 s              |
| Attenuation Accuracy                                                                         | plus or minus 0.1 dB         |
| Insertion Loss Single-Mode Class: less than 2.2 dB family table                              |                              |
| Specifications                                                                               |                              |
| PARAMETER                                                                                    | VALUE                        |
| Polarization Dependent Loss Maximum                                                          | 0.08 dB                      |
| Beam Block Isolation                                                                         | greater than 90 dB           |
| Maximum Optical Input Power                                                                  | 500 mW                       |
| Return Loss SM Analog Class                                                                  | greater than 60 dB           |
| AC Input                                                                                     | 90 to 240 Vac 50 to 60 Hz    |
| Power Consumption Maximum                                                                    | 80 VA                        |
| Operating Temperature                                                                        | 0 to 40 C                    |
| Storage Temperature                                                                          | minus 40 to 60 C             |
| Remote Interfaces                                                                            | GPIB and RS-232              |
| Command Set                                                                                  | SCPI compatible              |
| Form Factor                                                                                  | HA series half-rack benchtop |
| Series Comparison Source                                                                     | JDS HA attenuator OEM table  |
| Notes                                                                                        |                              |
| Queue HA117+20ASC1 treated as HA11 configured attenuator; numeric rows from HA11 OEM column. |                              |

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