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Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase OLA-55M

Manufacturer: VIAVI Solutions (formerly JDSU) Instrument Type: Motorized optical level attenuator with level control Alias: OLA55M; BN 2280/02 PC; BN 2280/22 APC Wavelength range: 1260 to 1650 nm in 1 nm increments Instrument Type: Motorized optical level attenuator with level control Alias: OLA55M; BN 2280/02 PC; BN 2280/22 APC Wavelength range: 1260 to 1650 nm in 1 nm increments Calibrated wavelengths: 1310, 1550, 1625 nm



MODEL

**JDS Uniphase
OLA-55M**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OLA-55M

LISTING

<https://aumictechlabs.com/products/ola-55m-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase OLA-55M is a motorized optical level attenuator for single-mode fiber systems engineered for testing, installation, maintenance, and production environments. This device combines optical attenuation with integrated power metering, enabling direct setting of output power levels and automatic compensation for input power fluctuations through Level Controller Mode. The attenuator eliminates the need for external power meters during power level adjustments, streamlining field and lab workflows. Technical Specifications Fiber Type: Single-mode fiber (SMF) Wavelengths: 1310 nm, 1550 nm, 1625 nm; extended range 1260–1650 nm Attenuation Range: 2.5 to 60 dB Attenuation Setting: Absolute and relative modes with motorized filter adjustment Resolution: 0.01 dB (LC display) Battery Life: >1000 hours with AA dry or rechargeable batteries Power Management: SMARTEnergy supply system Interface: USB port for

remote operation Key Features Level Controller Mode automatically stabilizes output power, counteracting input fluctuations Motorized precision control with 0.01 dB resolution enables repeatable attenuation settings Minimized Differential Group Delay (DGD) supports 40 Gbps system testing Low insertion loss via optimized optical design NIST/PTB-traceable calibration with excellent overall accuracy SMARTStar graphical user interface with arrow keys for manual adjustment One-handed operation capability with no warm-up time required Field-rated design: shock-proof and splash-proof construction Typical Applications Emulate fiber loss for system dynamics testing Bit Error Rate (BER) testing up to 40 Gbps Line loss simulation for high-speed BERT measurements Single-mode fiber system installation and maintenance Compatibility & Integration The OLA-55M operates across 1260–1650 nm, covering C-band (1550 nm), L-band (1625 nm), and O-band (1310 nm) wavelengths. Remote operation via USB enables integration into automated test systems and production environments.

Features & description

From manufacturer datasheet

Features

- Absolute or relative attenuation
- Motorized setting with up/down keys
- Level controller with automatic output stabilization
- Bidirectional in attenuation mode; unidirectional in level control
- Interchangeable BN 2155 adapters for PC or APC
- Greater than 300 h battery life (versus greater than 1000 h on non-motorized OLA-55)

OLA55M Characteristics / Specifications

PARAMETER	VALUE
Model	OLA-55M
Manufacturer	VIAVI Solutions (formerly JDSU)
Instrument Type	Motorized optical level attenuator with level control
Alias	OLA55M; BN 2280/02 PC; BN 2280/22 APC
Fiber type	9/125 um single-mode
Wavelength range	1260 to 1650 nm in 1 nm increments
Calibrated wavelengths	1310, 1550, 1625 nm
Attenuation display range	2.0 to 60 dB
Minimum insertion loss	less than 2.5 dB including connectors
Linearity	±0.2 dB
Repeatability	±0.1 dB excluding remating
Total attenuation accuracy	±0.8 dB
Setting type	continuous over the entire range
Max permitted level	+23 dBm
Level control range	-50 to +20 dBm (input at least 3 dB above selected output)
Level control accuracy	±0.25 dB at 23 C ±3 C, calibrated wavelengths (±0.3 dB at 1625 nm)
Display resolution	0.01 dB
Setting time	less than 2 s
Output stability	±0.15 dB (input variations below 0.5 Hz)
Display	illuminated 128 × 64 dots
Battery	four AA 1.5 V or NiMH 1.2 V
Battery life	greater than 300 h dry cells
Auto off	about 20 min (can be disabled)
Charge time	2 hours
External DC	12 V via AC adapter

PARAMETER	VALUE
EMC	IEC 61326 CE
Calibration interval	3 years
Operating temperature	-10 C to +55 C
Storage temperature	-40 C to +70 C
Dimensions	approximately 95 × 60 × 195 mm
Weight	approximately 500 g
Related OLA	non-motorized, no level-controller mode
Attenuation	display range: 2.0 to 60 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to +70 C
Operating temperature	10 C to +55 C
Operating Temperature	10 C to +55 C
Dimensions	approximately 95 × 60 × 195 mm
Weight	approximately 500 g
Related OLA	non-motorized, no level-controller mode Notes Specs from VIAVI SmartClass OLA-55M datasheet. Confirm BN 2280/02 PC versus BN 2280/22 APC. Do not apply OLA-54 multimode 50/125 um / 850/1300 nm rows. Insertion-loss and accuracy include connectors per IEC 874-1 method 6 and depend on connector quality.

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	
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Dimensions	approximately 95 x 60 x 195 mm
Weight	approximately 500 g
Related OLA 55	non-motorized, no level-controller mode

Notes

Specs from VIAVI SmartClass OLA-55M datasheet. Confirm BN 2280/02 PC versus BN 2280/22 APC. Do not apply OLA-54 multimode 50/125 um / 850/1300 nm rows. Insertion-loss and accuracy include connectors per IEC 874-1 method 6 and depend on connector quality.

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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NIST-traceable calibration · SAM registered ·
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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.