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Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase MVOA (MAP-VOA)

The JDSU (VIAVI) mVOA MAP-VOA is a modular variable optical attenuator cassette for the Multiple Application Platform (MAP / MAP-200) photonic test system. Family datasheets (mVOA-A2 / mVOA-C1) specify single-mode attenuation ranges to 70 dB with 0.001 dB resolution, low insertion loss, shutter isolation, and optional integrated power monitor or output tap. Configurations include single/dual/quad VOA, standard or high-power, and SM or MM fiber options. Receiver and amplifier level control; optical component IL/PDL test setups; closed-loop power control with integrated monitor option; MAP-200 production and lab photonic layer automation. JDSU / VIAVI mVOA (MAP-VOA) Variable Optical Attenuator Module The JDSU (VIAVI) mVOA MAP-VOA is a modular variable optical attenuator cassette for the Multiple Application Platform (MAP / MAP-200) photonic test system. Family datasheets (mVOA-A2 / mVOA-C1) specify single-mode attenuation ranges to 70 dB with 0.001 dB resolution, low insertion loss, shutter isolation, and optional integrated power monitor or output tap. Configurations include single/dual/quad VOA, standard or high-power, and SM or MM fiber options.



MODEL

**JDS Uniphase
MVOA**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MVOA

LISTING

<https://aumictechlabs.com/products/mvoa-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase MVOA (MAP-VOA) is a motorized variable optical attenuator module engineered for integration into the MAP platform chassis. It delivers precise, fine-grained control

of optical power levels across C- and L-band wavelengths, supporting automated attenuation in laboratory and production test environments. The module uses stepper motor and filter-based attenuation technology to achieve low insertion loss and minimal optical impairments across its 70 dB dynamic range.

Technical Specifications

Optical Performance

Attenuation range: 0 to 70 dB
Attenuation resolution: 0.001 dB
Accuracy (0–45 dB): ± 0.1 dB
Repeatability: ± 0.01 dB
Flatness (0–30 dB): ± 0.04 dB
Wavelength range: 1260 nm to 1650 nm
Insertion loss (minimum attenuation): 55 dB typical
Shutter isolation: Typically 100 dB
Transition speed: Up to 25 dB/s
Power Handling
Standard input: +23 dBm maximum
High power option: Up to 2 W (13 dBm) single-mode, 500 mW (7 dBm) multimode
Fiber & Connectors
Single-mode: 9/125 μm
Multimode: 50/125 μm
Connector types: FC/PC, SC/APC
Key Features
Hot-swappable cassette module for MAP Master (MAP+2M00) and MAP Benchtop (MAP+2B00) chassis
Dynamic MAP Firmware auto-identifies installed modules
Single or dual attenuator configuration per cassette; up to 16 modules per chassis
LXI Class C compliant
RS-232 and GPIB remote control
IVI driver support

Typical Applications

Automated optical power level control in fiber systems
Amplifier characterization
Network simulations
In-line power control
Fiber optic testing and measurement

Compatibility & Integration

Designed exclusively for the JDS Uniphase MAP platform ecosystem. Chassis draw power directly; no external supply required. Supports both 19-inch rackmount and benchtop configurations.

Features & description

From manufacturer datasheet

Features

- MAP / MAP-200 modular VOA cassette

MVOA Characteristics / Specifications

PARAMETER	VALUE
Model	mVOA (MAP-VOA; mVOA-A2 / mVOA-C1 family)
Manufacturer	JDS Uniphase / VIAVI Solutions
Instrument Type	Modular variable optical attenuator
Host Platform	MAP / MAP-200 Multiple Application Platform
Wavelength Range SM	1260 to 1650 nm (family)
Wavelength Range MM Class	750 to 1350 nm (family MM options)
Attenuation Range SM	70 dB
Attenuation Range MM Class	65 dB (family)
Attenuation Resolution	0.001 dB
Attenuation Repeatability	+/-0.01 dB (family)
Relative Attenuation Uncertainty	+/-0.1 dB (family conditions)
Attenuation Settling Time	less than or equal to 55 ms (mVOA-C1 class)
Attenuation Slew Rate SM	greater than or equal to 25 dB/s
Insertion Loss at Min Attenuation SM Class	less than about 1.0 dB (A2 family conditions)
Shutter Isolation	greater than or equal to 80 dB SM (C1); about 100 dB typical (A2 literature)
Return Loss SM APC Class	greater than or equal to 55 dB
Maximum Input Power Standard	+23 dBm
Power Setting Resolution (monitor option)	0.001 dB
Operating Temperature	0 to 50 C
Alias	mVOA; MAP-VOA; MVOA-A2; MVOA-C1 Notes Specs from JDSU/VIAVI mVOA-A2 and mVOA-C1 MAP VOA datasheets. Confirm exact option code (ports, power class, tap/monitor, fiber, connector) on the cassette faceplate.
Wavelength range	SM: 1260 to 1650 nm (family)
Attenuation	ranges to 70 dB with 0.001 dB resolution, low insertion loss, shutter isolation, and optional integrated power monitor or output tap.

PARAMETER	VALUE
	Configurations include single/dual/quad VOA, standard or high-power, and SM or MM fiber options.
Warm-up time	30 min (family)
Return loss	SM APC Class: greater than or equal to 55 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Alias	mVOA; MAP-VOA; MVOA-A2; MVOA-C1 Notes Specs from JDSU/VIAVI mVOA-A2 and mVOA-C1 MAP VOA datasheets. Confirm exact option code (ports, power class, tap/monitor, fiber, connector) on the cassette faceplate.

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	mVOA (MAP-VOA; mVOA-A2 / mVOA-C1 family)
Manufacturer	JDS Uniphase / VIAVI Solutions
Instrument Type	Modular variable optical attenuator
Specifications	
PARAMETER	VALUE
Host Platform	MAP / MAP-200 Multiple Application Platform
Wavelength Range SM	1260 to 1650 nm (family)
Wavelength Range MM Class	750 to 1350 nm (family MM options)
Specifications	
PARAMETER	VALUE
Attenuation Range SM	70 dB
Attenuation Range MM Class	65 dB (family)
Attenuation Resolution	0.001 dB
Specifications	
PARAMETER	VALUE
Attenuation Repeatability	+/-0.01 dB (family)
Relative Attenuation Uncertainty	+/-0.1 dB (family conditions)
Attenuation Settling Time	less than or equal to 55 ms (mVOA-C1 class)
Specifications	
PARAMETER	VALUE
Attenuation Slew Rate SM	greater than or equal to 25 dB/s
Insertion Loss at Min Attenuation SM Class	less than about 1.0 dB (A2 family conditions)

PARAMETER	VALUE
Shutter Isolation	greater than or equal to 80 dB SM (C1); about 100 dB typical (A2 literature)

Return Loss SM APC Class: greater than or equal to 55 dB

Maximum Input Power Standard: +23 dBm

Maximum Input Power High-Power Option: +33 dBm (SM)

Closed-Loop Power Range (monitor option, SM): about +11 to -49 dBm (family)

Power Setting Resolution (monitor option): 0.001 dB

Warm-up Time: 30 min (family)

Operating Temperature: 0 to 50 C

Alias: mVOA; MAP-VOA; MVOA-A2; MVOA-C1

Notes

Specs from JDSU/VIAVI mVOA-A2 and mVOA-C1 MAP VOA datasheets. Confirm exact option code (ports, power class, tap/monitor, fiber, connector) on the cassette faceplate.

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.