

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

JDS UNIPHASE

JDS Uniphase MAP-VOA

JDS Uniphase Optical Attenuators. Resolution: ** 0.001 dB, Accuracy: ** ± 0.1 dB (0 to 45 dB).



MODEL

**JDS Uniphase
MAP-VOA**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MAP-VOA

LISTING

<https://aumictechlabs.com/products/map-voa-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase MAP-VOA is a modular variable optical attenuator engineered for integration into the JDS Uniphase MAP Series platform. This hot-swappable cassette module delivers precise optical power control across the C- and L-bands, supporting both single-mode and multimode fiber configurations. Operating wavelengths span 1260 nm to 1650 nm, with attenuation capability up to 70 dB and guaranteed accuracy of ± 0.1 dB from 0 to 45 dB. The 0.001 dB setting resolution enables fine-grained signal conditioning in automated test environments, laboratory setups, and production line applications. Insertion loss remains below 1.0 dB at minimum attenuation, while repeatability of ± 0.01 dB ensures consistent measurement results across multiple cycles. With maximum input power handling of +23 dBm (up to 2 W for single-mode fiber with optional higher power capability), the MAP-VOA accommodates high-power optical signals. Return loss exceeds 55 dB typical, and shutter isolation reaches 100 dB typical. Remote control via RS-232 and GPIB interfaces enables seamless integration into automated test sequences. Up to 16 independently controlled attenuators can be installed in a single MAP chassis. The modular architecture allows insertion and removal without system power-down, supporting rapid system reconfiguration and

maintenance. Technical Specifications Wavelength Range: 1260 nm to 1650 nm Attenuation Range: Up to 70 dB (0 to 45 dB for accuracy specification) Attenuation Setting Resolution: 0.001 dB Attenuation Accuracy: ± 0.1 dB (0 to 45 dB) Attenuation Repeatability: ± 0.01 dB Attenuation Flatness: ± 0.04 dB (0 to 30 dB) Insertion Loss: 55 dB typical Shutter Isolation: 100 dB typical Key Features Hot-swappable cassette design for maintenance without system shutdown FC/PC, SC/APC, and SC/PC connector options Single-mode (9/125 μm) and multimode fiber support RS-232 and GPIB remote control interfaces Up to 16 independently controlled modules per MAP chassis Typical Applications Optical signal conditioning and attenuation Automated test sequences and production line testing Laboratory optical measurement systems Multi-wavelength system characterization Compatibility & Integration Integrates with JDS Uniphase MAP Series chassis including MAP-200 platform variants. The MAP-200 platform supports LXI (LAN Extensions for Instrumentation) compliance with Ethernet connectivity and IVI drivers.

Features & description

From manufacturer datasheet

Features

- Single-slot cassette with 1, 2, or 4 independently controlled VOAs
- Optional built-in wavelength-calibrated power monitor
- High-power option for EDFA and multi-wavelength stimulus
- Hot-pluggable in MAP-220C, MAP-230B, and MAP-280/280R
- Up to 32 VOA channels in a MAP-280 (3U)
- Flat spectral response for CWDM/DWDM uniformity

MAPVOA Characteristics / Specifications

PARAMETER	VALUE
Model	mVOA-C1 (MAP-VOA)
Manufacturer	JDSU / VIAVI Solutions
Instrument Type	MAP variable optical attenuator module
Platform	MAP-200 / MAP series LightDirect
Alias	MAP-VOA; mVOA; mVOA-C1
SM Wavelength	1260 to 1650 nm
MM Wavelength	750 to 1350 nm
SM Attenuation Range	70 dB
MM Attenuation Range	65 dB
Attenuation Resolution	0.001 dB (0 to 65 dB SM; 0 to 50 dB MM)
Attenuation Repeatability	+/-0.01 dB (0 to 45 dB)
Relative Attenuation Uncertainty	+/-0.1 dB
Attenuation Settling Time	<=55 ms
SM Slew Rate	>=25 dB/s
MM Slew Rate	>=20 dB/s
SM Insertion Loss	<=0.9 dB at 0 dB (<=1.5 dB with tap)
MM Insertion Loss	<=1.5 dB at 0 dB (<=2.4 dB with tap)
SM PDL	<=0.08 dB (<=0.15 dB tap option), 0 to 25 dB
SM Return Loss	>=55 dB (excludes connectors)
MM Return Loss	>=45 dB
SM Shutter Isolation	>=80 dB
MM Shutter Isolation	>=75 dB
SM Attenuation Flatness	+/-0.04 dB (0 to 30 dB, 1480 to 1640 nm)
SM Max Input Standard	+23 dBm
SM Max Input High Power	+33 dBm

PARAMETER	VALUE
MM Max Input Standard	+23 dBm
MM Max Input High Power	+27 dBm
SM Closed Loop Power	+11 to -49 dBm (monitor option)
Power Monitor Linearity	+/-0.03 dB
Power Setting Repeatability	+/-0.015 dB
Power Setting Resolution	0.001 dB
Warm Up Time	30 min
Calibration Period	3 years
Operating Temperature	0 to 50 C
Storage Temperature	-30 to 60 C
Humidity	15 to 80 percent RH, 0 to 40 C noncondensing
Dimensions	4.1 × 13.3 × 37.0 cm
Weight Single	1.1 kg
Weight Dual	1.3 kg
Weight Quad	1.7 kg
Fiber Codes	M100 9 um SM; M101 50 um OM3; M102 62.5 um OM1
Connector Codes	FC/PC, FC/APC, SC/PC, SC/APC, LC/PC, LC/APC
Attenuation	Range: 70 dB
Return loss	>=55 dB (excludes connectors)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	30 to 60 C
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	15 to 80 percent RH, 0 to 40 C noncondensing
Dimensions	4.1 × 13.3 × 37.0 cm
Weight Single	1.1 kg
Weight Dual	1.3 kg
Weight Quad	1.7 kg
Fiber Codes	M100 9 um SM; M101 50 um OM3; M102 62.5 um OM1
Connector Codes	FC/PC, FC/APC, SC/PC, SC/APC, LC/PC, LC/APC Notes Specs from the VIAVI/JDSU MAP Variable Optical Attenuator (mVOA-C1) data sheet. Confirm channel count (S/D/Q), standard vs high power, tap vs monitor, fiber, and connector codes on the cassette label. MAP-200A02R is a spare controller and MAP-AC990 is an accessory; those are not this module.

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-C1 (MAP-VOA)
Manufacturer	JDSU / VIAVI Solutions
Instrument Type	MAP variable optical attenuator module
Platform	MAP-200 / MAP series LightDirect
Alias	MAP-VOA; mVOA; mVOA-C1
SM Wavelength	1260 to 1650 nm
MM Wavelength	750 to 1350 nm
SM Attenuation Range	70 dB
MM Attenuation Range	65 dB
Attenuation Resolution	0.001 dB (0 to 65 dB SM; 0 to 50 dB MM)
Attenuation Repeatability	+/-0.01 dB (0 to 45 dB)
Relative Attenuation Uncertainty	+/-0.1 dB
Attenuation Settling Time	<=55 ms
SM Slew Rate	>=25 dB/s
MM Slew Rate	>=20 dB/s
SM Insertion Loss	<=0.9 dB at 0 dB (<=1.5 dB with tap)
MM Insertion Loss	<=1.5 dB at 0 dB (<=2.4 dB with tap)
SM PDL	<=0.08 dB (<=0.15 dB tap option), 0 to 25 dB
SM Return Loss	>=55 dB (excludes connectors)
MM Return Loss	>=45 dB
SM Shutter Isolation	>=80 dB
MM Shutter Isolation	>=75 dB
SM Attenuation Flatness	+/-0.04 dB (0 to 30 dB, 1480 to 1640 nm)
SM Max Input Standard	+23 dBm
SM Max Input High Power	+33 dBm
MM Max Input Standard	+23 dBm

PARAMETER	VALUE
MM Max Input High Power	+27 dBm
SM Closed Loop Power	+11 to -49 dBm (monitor option)
Power Monitor Linearity	+/-0.03 dB
Power Setting Repeatability	+/-0.015 dB
Power Setting Resolution	0.001 dB
Warm Up Time	30 min
Calibration Period	3 years
Operating Temperature	0 to 50 C
Storage Temperature	-30 to 60 C
Humidity	15 to 80 percent RH, 0 to 40 C noncondensing
Dimensions	4.1 x 13.3 x 37.0 cm
Weight Single	1.1 kg
Weight Dual	1.3 kg
Weight Quad	1.7 kg
Fiber Codes	M100 9 um SM; M101 50 um OM3; M102 62.5 um OM1
Connector Codes	FC/PC, FC/APC, SC/PC, SC/APC, LC/PC, LC/APC

Notes

Specs from the VIAVI/JDSU MAP Variable Optical Attenuator (mVOA-C1) data sheet. Confirm channel count (S/D/Q), standard vs high power, tap vs monitor, fiber, and connector codes on the cassette label. MAP-200A02R is a spare controller and MAP-AC990 is an accessory; those are not this module.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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