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Data Sheet

August 14, 2026

JDS UNIPHASE

JDS Uniphase MVOA-A1SS0

The JDS Uniphase MVOA-A1SS0 is a Micro Variable Optical Attenuator (MVOA) designed for precision optical power control. It features a compact form factor and is suitable for integration into various optical systems. This device offers reliable performance and accurate attenuation adjustments.



MODEL

**JDS Uniphase
MVOA-A1SS0**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MVOA-A1SS0

LISTING

<https://aumictechlabs.com/products/mvoa-a1ss0-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase MVOA-A1SS0 is a hot-pluggable Micro Variable Optical Attenuator module for the Multiple Application Platform (MAP) system. It delivers precise optical power control across the C- and L-bands with attenuation settings from 0 dB to 70 dB at 0.001 dB resolution. The module supports up to 16 independently controlled attenuators per MAP chassis, enabling high-density optical test configurations in laboratory and production environments. Technical Specifications Wavelength Range: 1260 nm to 1650 nm Attenuation Range: 0 dB to 70 dB Attenuation Resolution: 0.001 dB Attenuation Accuracy (0–45 dB): ± 0.1 dB Attenuation Flatness (0–30 dB): ± 0.04 dB Attenuation Repeatability: ± 0.01 dB Insertion Loss (minimum attenuation): 55 dB typical Maximum Input Power: +23 dBm (200 mW single-mode, 500 mW multimode; optional high-power option: 2 W single-mode) Spectral Uniformity: Outstanding Transition Speed: Up to 25 dB/s Key Features Hot-swappable cassette module - no system shutdown required for

insertion or removal Multiple optical connector options: FC/PC, SC/PC, or SC/APC Fiber type support: 9/125 μm (single-mode) or 62.5/125 μm (multimode) Dual control interfaces: RS-232 and GPIB Color display with 9-key keypad for direct module control Automatic firmware identification via MAP console Typical Applications Fiber optic component testing Optical amplifier characterization Network simulation and emulation Production and bench-top measurements Compatibility & Integration Designed exclusively for the JDS Uniphase Multiple Application Platform (MAP) system. Dynamic MAP firmware automatically detects and configures installed MVOA-A1SS0 cassettes. Single-slot form factor.

MVOAA1SS0 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	VIAVI MAP mVOA-C1
Wavelength Range Multimode	750 to 1350 nm
Attenuation Range Multimode	65 dB
Attenuation Resolution	0.001 dB
Relative Attenuation Uncertainty	plus or minus 0.1 dB
Attenuation Repeatability	plus or minus 0.01 dB
Attenuation Settling Time	less than or equal to 55 ms
Attenuation Slew Rate Multimode	greater than or equal to 20 dB/s
Insertion Loss At 0 dB Multimode	less than or equal to 1.5 dB (less than or equal to 2.4 dB with tap)
Return Loss Multimode	greater than or equal to 45 dB
Shutter Isolation Multimode	greater than or equal to 75 dB
Maximum Input Power Standard / High Power SM	plus 23 dBm / plus 33 dBm
Maximum Input Power Standard / High Power MM	plus 23 dBm / plus 27 dBm
Closed Loop Power Range SM With Monitor Std/High	plus 11 to minus 49 dBm / plus 31.5 to minus 28.5 dBm
Power Monitor Linearity	plus or minus 0.03 dB
Power Setting Repeatability	plus or minus 0.015 dB
Power Setting Resolution	0.001 dB
Calibration Period	3 years
Operating Temperature	0 to 50 C
Storage Temperature	minus 30 to 60 C
Operating Humidity	15 to 80 percent RH noncondensing 0 to 40 C
Module DimensionsWxHxD	4.1 × 13.3 × 37.0 cm
Weight Single / Dual / Quad	1.1 kg / 1.3 kg / 1.7 kg
Platform Compatibility	MAP-200 and MAP-300 chassis

PARAMETER	VALUE
Example Ordering Codes	MVOA-C1SS0S MVOA-C1DS0S MVOA-C1QS0S class
Wavelength range	Single-Mode: 1260 to 1650 nm
Attenuation	Range Single-Mode: 70 dB
Humidity	15 to 80 percent RH noncondensing 0 to 40 C
Warm-up time	30 min
Return loss	Single-Mode: greater than or equal to 55 dB

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 30 to 60 C
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	15 to 80 percent RH noncondensing 0 to 40 C
Operating Humidity	15 to 80 percent RH noncondensing 0 to 40 C
Module DimensionsWxHxD	4.1 × 13.3 × 37.0 cm
Weight Single / Dual / Quad	1.1 kg / 1.3 kg / 1.7 kg
Platform Compatibility	MAP-200 and MAP-300 chassis
Example Ordering Codes	MVOA-C1SS0S MVOA-C1DS0S MVOA-C1QS0S class Notes Numeric rows from VIAVI MAP Variable Optical Attenuator mVOA-C1 datasheet tables. Queue slug MVOA-A1SS0 aligns with mVOA-C1 single-mode single VOA standard-power no-option class ordering; confirm 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

Instrument Family: VIAVI MAP mVOA-C1

Wavelength Range Single-Mode: 1260 to 1650 nm

Wavelength Range Multimode: 750 to 1350 nm

Attenuation Range Single-Mode: 70 dB

Specifications

PARAMETER	VALUE
Attenuation Range Multimode	65 dB
Attenuation Resolution	0.001 dB
Relative Attenuation Uncertainty	plus or minus 0.1 dB
Attenuation Repeatability	plus or minus 0.01 dB
Attenuation Settling Time	less than or equal to 55 ms

Attenuation Slew Rate Single-Mode: greater than or equal to 25 dB/s

Attenuation Slew Rate Multimode: greater than or equal to 20 dB/s

Insertion Loss At 0 dB Single-Mode: less than or equal to 0.9 dB (less than or equal to 1.5 dB with tap option)

Insertion Loss At 0 dB Multimode: less than or equal to 1.5 dB (less than or equal to 2.4 dB with tap)

Polarization Dependent Loss Single-Mode: less than or equal to 0.08 dB (less than or equal to 0.15 dB with tap)

Return Loss Single-Mode: greater than or equal to 55 dB

Return Loss Multimode: greater than or equal to 45 dB

Shutter Isolation Single-Mode: greater than or equal to 80 dB

Shutter Isolation Multimode: greater than or equal to 75 dB

Attenuation Flatness Single-Mode: plus or minus 0.04 dB (0 to 30 dB over 1480 to 1640 nm)

Maximum Input Power Standard / High Power SM: plus 23 dBm / plus 33 dBm

Maximum Input Power Standard / High Power MM: plus 23 dBm / plus 27 dBm

Closed Loop Power Range SM With Monitor Std/High: plus 11 to minus 49 dBm / plus 31.5 to minus 28.5 dBm

Specifications

PARAMETER	VALUE
Power Monitor Linearity	plus or minus 0.03 dB
Power Setting Repeatability	plus or minus 0.015 dB
Power Setting Resolution	0.001 dB

Warm-Up Time: 30 min

Specifications

PARAMETER	VALUE
Calibration Period	3 years
Operating Temperature	0 to 50 C

PARAMETER	VALUE
Storage Temperature	minus 30 to 60 C
Operating Humidity	15 to 80 percent RH noncondensing 0 to 40 C
Module DimensionsWxHxD	4.1 x 13.3 x 37.0 cm
Weight Single / Dual / Quad	1.1 kg / 1.3 kg / 1.7 kg
Platform Compatibility	MAP-200 and MAP-300 chassis
Example Ordering Codes	MVOA-C1SS0S MVOA-C1DS0S MVOA-C1QS0S class

Notes

Numeric rows from VIAVI MAP Variable Optical Attenuator mVOA-C1 datasheet tables. Queue slug MVOA-A1SS0 aligns with mVOA-C1 single-mode single VOA standard-power no-option class ordering; confirm 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.