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Data Sheet

August 15, 2026

JDS UNIPHASE

JDS Uniphase VA4503-FPL

The JDS Uniphase VA4503-FPL is a manual variable optical attenuator engineered for precise control of optical signal power in telecommunications, data center, and high-bandwidth testing environments. This handheld instrument delivers attenuation adjustment from 0 to 65 dB with 0.1 dB resolution, enabling accurate signal calibration and system optimization across multiple wavelength bands. Built on JDSU's ultra-linear attenuator prism and microlens technology, the VA4503-FPL combines laboratory-grade performance with field portability. Attenuation Range: 0–65 dB (some configurations 60 dB at alternative wavelengths) Manual front-panel control with large-scale LCD readout for attenuation level display Rear panel-mounted connector bulkheads with support for major connector types including FC/PC

**MODEL****JDS Uniphase
VA4503-FPL****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****VA4503-FPL****LISTING**<https://aumictechlabs.com/products/va4503-fpl-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase VA4503-FPL is a manual variable optical attenuator engineered for precise control of optical signal power in telecommunications, data center, and high-bandwidth testing environments. This handheld instrument delivers attenuation adjustment from 0 to 65 dB with 0.1 dB resolution, enabling accurate signal calibration and system optimization across multiple wavelength bands. Built on JDSU's ultra-linear attenuator prism and microlens technology, the VA4503-FPL combines laboratory-grade performance with field portability. Technical

Specifications Attenuation Range: 0–65 dB (some configurations 60 dB at alternative wavelengths) Attenuation Resolution: 0.1 dB Maximum Measured Attenuation: 68 dB Insertion Loss: < 2.0 dB Polarization Dependent Loss (PDL): < 0.05 dB Return Loss: < 60 dB Calibration Wavelengths: 830/1300 nm and 1300/1550 nm Fiber Type: 9/125 μ m single-mode Power Source: 9 V lithium battery Key Features Manual front-panel control with large-scale LCD readout for attenuation level display Non-volatile memory maintains set attenuation through power cycles Microlens technology ensures highly reliable and repeatable attenuation settings Rear panel-mounted connector bulkheads with support for major connector types including FC/PC Optional universal connector adapter (UCA) available for multi-platform deployment Battery-powered operation enables portable field use without external power infrastructure Typical Applications Optical signal power management in telecommunications networks Calibration and testing in data center fiber optic infrastructure Signal level optimization in high-bandwidth communication systems Field-deployable attenuation measurement and adjustment Compatibility & Integration The VA4503-FPL integrates with existing fiber optic systems through flexible connector options. Multiple connector type support and optional UCA facilitate seamless integration across diverse optical communication architectures without requiring system reconfiguration.

VA4503FPL Characteristics / Specifications

PARAMETER	VALUE
Model	VA4503
Instrument Type	Manual variable optical attenuator
Series Family	JDSU VA4 Series
Attenuation Range 1300 15	65/60 dB
Attenuation Range 830 13	50/40 dB
Insertion Loss Sm 1300 15	less than or equal to 3.0 dB
Insertion Loss Sm 830 13	less than or equal to 7.0 dB
Insertion Loss Mm 50 125 1300 15	less than or equal to 3.2 dB
Insertion Loss Mm 50 125 830 13	less than or equal to 4.2 dB
Insertion Loss Mm Other 1300 15	less than or equal to 3.9 dB
Insertion Loss Mm Other 830 13	less than or equal to 4.9 dB
Return Loss Sm Analog	greater than 60 dB (VA4 SM analog listing)
Return Loss Mm 50 1	greater than 35 dB
Maximum Optical Input Power	200 mW
Repeatability	plus or minus 0.1 dB
Attenuation Resolution	0.1 dB
Weight	0.82 kg
Fiber Type Example Fpl	9/125 um single-mode (VA4503-FPL configuration)
Calibration Wavelengths Example Fpl	1300 / 1550 nm
Connector Example Fpl	FC/PC
Measured Insertion Loss Example	less than 2.0 dB onadocumented VA4503-FPL incoming test (unit-specific)
Measured Pdl Example	less than 0.05 dB on that documented incoming test (unit-specific)
Measured Max Attenuation Example	68 dB on that documented incoming test (unit-specific)
Display	large-scale LCD
Power Source	9 V lithium battery for handheld field use

PARAMETER	VALUE
Attenuation Hold	attenuation level maintained when power is turned on or off
Technology	ultra-linear attenuator prism and microlens
Ports	input and output rear-panel connector bulkheads
Form Factor	compact portable handheld
Use Case	field system testing and laboratory development
Universal Connector Adapter	optional UCA available on VA4 series
Attenuation	Range 1300 1550: 65/60 dB
Return loss	Sm Analog: greater than 60 dB (VA4 SM analog listing)
Fiber type	Example Fpl: 9/125 um single-mode (VA4503-FPL configuration)

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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PARAMETER	VALUE
Model	VA4503
Instrument Type	Manual variable optical attenuator
Series Family	JDSU VA4 Series
Attenuation Range 1300 1550	65/60 dB
Attenuation Range 830 1300	50/40 dB
Insertion Loss Sm 1300 1550	less than or equal to 3.0 dB
Insertion Loss Sm 830 1300	less than or equal to 7.0 dB
Insertion Loss Mm 50 125 1300 1550	less than or equal to 3.2 dB
Insertion Loss Mm 50 125 830 1300	less than or equal to 4.2 dB
Insertion Loss Mm Other 1300 1550	less than or equal to 3.9 dB
Insertion Loss Mm Other 830 1300	less than or equal to 4.9 dB
Return Loss Sm Analog	greater than 60 dB (VA4 SM analog listing)
Return Loss Mm 50 125	greater than 35 dB
Maximum Optical Input Power	200 mW
Repeatability	plus or minus 0.1 dB
Attenuation Resolution	0.1 dB
Weight	0.82 kg
Fiber Type Example Fp1	9/125 um single-mode (VA4503-FPL configuration)
Calibration Wavelengths Example Fp1	1300 / 1550 nm
Connector Example Fp1	FC/PC
Measured Insertion Loss Example	less than 2.0 dB onadocumented VA4503-FPL incoming test (unit-specific)
Measured Pdl Example	less than 0.05 dB on that documented incoming test (unit-specific)
Measured Max Attenuation Example	68 dB on that documented incoming test (unit-specific)
Display	large-scale LCD
Power Source	9 V lithium battery for handheld field use

PARAMETER	VALUE
Attenuation Hold	attenuation level maintained when power is turned on or off
Technology	ultra-linear attenuator prism and microlens
Ports	input and output rear-panel connector bulkheads
Form Factor	compact portable handheld
Use Case	field system testing and laboratory development
Universal Connector Adapter	optional UCA available on VA4 series

Notes

Attenuation, insertion-loss, return-loss, 200 mW, repeatability, 0.1 dB resolution, and 0.82 kg from JDSU VA4 Series OEM specification tables for the VA4503 family. VA4503-FPL is a 1300/1550 nm, 9/125 um, FC/PC configuration example. Incoming-test IL/PDL/max-attenuation figures are unit-specific measurements published with that configuration, not warranted family limits.

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.