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Data Sheet

August 15, 2026

JDS UNIPHASE

JDS Uniphase MTA300-Z028

JDS Uniphase Optical Attenuators. Resolution: ** 0.05 dB nominal, Accuracy: ** Better than ± 0.1 dB.



MODEL

**JDS Uniphase
MTA300-Z028**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MTA300-Z028

LISTING

<https://aumictechlabs.com/products/mta300-z028-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase MTA300-Z028 is an optical attenuator cassette for the MTA 300 series modular platform. It has programmable attenuation exceeding 60 dB with 0.05 dB resolution and ± 0.1 dB accuracy, enabling precise optical power control in telecommunications and data center environments. The cassette integrates into the MTA shelf - a 19-inch rack-mounted chassis that accommodates up to eight attenuator cassettes plus one controller unit. Technical Specifications Attenuation Range: Programmable, exceeding 60 dB Resolution: 0.05 dB nominal Accuracy: Better than ± 0.1 dB Wavelength Range: Optimized for 1550 nm; usable over 1200–1700 nm Fiber Type: Singlemode Optical Interface: SC/APC Polarization Dependent Loss (PDL): Low Return Loss: Low Design: Etalon-free for minimal distortion Power Input (Shelf): 100–240 V AC, 50–60 Hz Maximum Power Consumption (Shelf): 80 VA Fuse: (5×20) mm, T1A/250 V (slow-blow) Key Features Etalon-free design ensures low optical distortion Low PDL and return loss characteristics SCPI-compatible command set for remote operation Dual control interface: front panel keypad and GPIB remote LabVIEW driver support for automated test sequences Modular cassette architecture for

flexible multi-channel configurations Typical Applications DWDM system test beds Data center optical networks Enterprise network validation Telecommunications infrastructure deployment Per-channel power equalization Optical signal stabilization and level adjustment Compatibility & Integration The MTA300-Z028 operates within the MTA 300 series shelf, a 19-inch rack-mountable enclosure. The platform supports GPIB remote interface and SCPI commands, enabling integration with existing test automation frameworks. LabVIEW drivers streamline development of custom measurement routines.

Features & description

From manufacturer datasheet

Built-in beam blocking switch

Retractable connector plate for cleaning Controlled via MTA150 keypad or GPIB SCPI Technical Specifications Instrument Family: JDS Uniphase MTA300-Z028 Operating Wavelength Range: 1200 to 1700 nm Fiber Type: 9/125 μm Attenuation Range: greater than 60 dB Attenuation Resolution: 0.05 dB nominal Attenuation Repeatability Typical: plus or minus 0.005 dB Attenuation Repeatability Maximum: plus or minus 0.02 dB Attenuation Change Rate 0 To 60 dB: less than 6 s Attenuation Accuracy Typical: plus or minus 0.05 dB Attenuation Accuracy Maximum: plus or minus 0.1 dB Insertion Loss Typical: 2.2 dB Insertion Loss Maximum: 2.5 dB Return Loss Typical: greater than 60 dB Return Loss Maximum Spec Floor: greater than 57 dB Maximum Optical Input Power: 200 mW

Polarization Dependent Loss Maximum: 0.10 dB

PDL At 1545 To 1565 nm Typical: 0.03 dB PDL At 1545 To 1565 nm Maximum: 0.05 dB Beam Block Isolation: greater than 90 dB Beam Block Speed: less than 20 ms Recalibration Period Recommended: 2 years Host Shelf: MTA100 Control Cassette: MTA150 Optimal Wavelength Performance Band: 1545 to 1565 nm Remote Command Set: SCPI compatible via MTA150 GPIB Notes From JDS Uniphase MTA100/MTA150/MTA300-Z028 OEM specification summaries published with Lightwavestore and AssetRelay MTA300-Z028 product literature. Confirm connector type on the cassette faceplate.

MTA300Z028 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	JDS Uniphase MTA300-Z028
Operating Wavelength Range	1200 to 1700 nm
Fiber Type	9/125 um
Attenuation Range	greater than 60 dB
Attenuation Resolution	0.05 dB nominal
Attenuation Repeatability Typical	plus or minus 0.005 dB
Attenuation Repeatability Maximum	plus or minus 0.02 dB
Attenuation Change Rate 0 To 60 dB	less than 6 s
Attenuation Accuracy Typical	plus or minus 0.05 dB
Attenuation Accuracy Maximum	plus or minus 0.1 dB
Insertion Loss Typical	2.2 dB
Insertion Loss Maximum	2.5 dB
Return Loss Typical	greater than 60 dB
Return Loss Maximum Spec Floor	greater than 57 dB
Maximum Optical Input Power	200 mW
Polarization Dependent Loss Typical	0.05 dB
Polarization Dependent Loss Maximum	0.10 dB
PDL At 1545 To 1565 nm Typical	0.03 dB
PDL At 1545 To 1565 nm Maximum	0.05 dB
Beam Block Isolation	greater than 90 dB
Beam Block Speed	less than 20 ms
Recalibration Period Recommended	2 years
Host Shelf	MTA100
Control Cassette	MTA150
Optimal Wavelength Performance Band	1545 to 1565 nm

PARAMETER	VALUE
Remote Command Set	SCPI compatible via MTA150 GPIB
Wavelength range	1200 to 1700 nm
Attenuation	Range: greater than 60 dB
Return loss	Typical: greater than 60 dB

MTA300Z028 Specifications

PARAMETER	VALUE
Key Features	Etalon-free optics for low distortion
Retractable connector plate for cleaning	Controlled via MTA150 keypad or GPIB SCPI
Technical Specifications	Instrument Family: JDS Uniphase MTA300-Z028

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
Instrument Family	JDS Uniphase MTA300-Z028
Operating Wavelength Range	1200 to 1700 nm
Fiber Type	9/125 um
Attenuation Range	greater than 60 dB
Attenuation Resolution	0.05 dB nominal
Attenuation Repeatability Typical	plus or minus 0.005 dB
Attenuation Repeatability Maximum	plus or minus 0.02 dB
Attenuation Change Rate 0 To 60 dB	less than 6 s
Attenuation Accuracy Typical	plus or minus 0.05 dB
Attenuation Accuracy Maximum	plus or minus 0.1 dB
Insertion Loss Typical	2.2 dB
Insertion Loss Maximum	2.5 dB
Return Loss Typical	greater than 60 dB
Return Loss Maximum Spec Floor	greater than 57 dB
Maximum Optical Input Power	200 mW
Polarization Dependent Loss Typical	0.05 dB
Polarization Dependent Loss Maximum	0.10 dB
PDL At 1545 To 1565 nm Typical	0.03 dB
PDL At 1545 To 1565 nm Maximum	0.05 dB
Beam Block Isolation	greater than 90 dB
Beam Block Speed	less than 20 ms
Recalibration Period Recommended	2 years
Host Shelf	MTA100
Control Cassette	MTA150
Optimal Wavelength Performance Band	1545 to 1565 nm
Remote Command Set	SCPI compatible via MTA150 GPIB

Notes

From JDS Uniphase MTA100/MTA150/MTA300-Z028 OEM specification summaries published with Lightwavestore and AssetRelay MTA300-Z028 product literature. Confirm connector type 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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.