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Data Sheet

August 15, 2026

JDS UNIPHASE

JDS Uniphase OAB1590-20FP0

The JDS Uniphase OAB1590-20FP0 is a fixed optical attenuator designed to reduce the power of an optical signal by a specific amount. This compact attenuator is suitable for various applications in optical communication systems.



MODEL

**JDS Uniphase
OAB1590-20FP0**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

OAB1590-20FP0

LISTING

<https://aumictechlabs.com/products/oab1590-20fp0-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The JDS Uniphase OAB1590-20FP0 is an L-band Erbium-Doped Fiber Amplifier (EDFA) engineered to amplify optical signals across the 1565–1610 nm wavelength range. Optimized for the 1550 nm and 1590 nm test bands, this amplifier delivers high gain and saturated output power while maintaining low noise figure. The OAB1590-20FP0 supports multiple deployment configurations - pre-amplifier, booster, in-line, and mid-span access - making it suitable for DWDM systems, optical communication infrastructure, component manufacturing, and R&D applications. Technical Specifications Amplifier Type: L-band EDFA Operating Wavelengths: 1565–1610 nm Guaranteed Performance Wavelengths: 1550 nm and 1590 nm (at 23 °C) Saturated Output Power: Measured at 1590 nm, P_{in} = 0 dBm (pre-amplifier, in-line, and booster configurations) Operating Temperature: 0 to 50 °C Storage Temperature: –40 to 70 °C Humidity: Maximum 95 % RH non-condensing from 0 to 45 °C Key Features Optimized for gain, noise figure, and saturated output power across the L-band Maximized signal gain and saturated output

power in the 1550 nm and 1590 nm bands Minimized noise figure for high-sensitivity applications Compact benchtop or rack-mountable design User-friendly LCD front panel displaying input/output power and current control Multiple amplification configurations for flexible system integration Typical Applications Dense Wavelength Division Multiplexing (DWDM) systems Long-haul and metro optical communication networks Optical component and sub-assembly manufacturing Research and development in fiber-optic signal processing Compatibility & Integration The OAB1590-20FP0 integrates into systems requiring L-band amplification with specified optical interface options available during procurement (FC/PC, FC/APC, SC/PC, SC/APC configurations). Electrical interface details are specified during system integration.

OAB159020FP0 Characteristics / Specifications

PARAMETER	VALUE
Model	OAB1590
Instrument Type	Erbium doped fiber amplifier
Test Band	L-band
Amplifier Type	Pre-amp
Operating Wavelength Range	1565 to 1610 nm
Input Signal	single channel
Saturated Output Power Minimum	15 dBm at 1590 nm Pin 0 dBm
Noise Figure Maximum	5 dB
Small Signal Gain Minimum	24 dB at Pin minus 20 dBm
PdI Maximum	less than 0.3 dB
Pmd Maximum	0.6 ps
Input Isolation	NA
Output Isolation Minimum	40 dB
Specification Condition	1590 nm and 23 C
FdaLBand Maximum Output	not greater than 22.8 dBm
Optical Interfaces	FC/PC FC/APC SC/PC SC/APC
Packaging	half rack benchtop with 19 inch rack kit
Dimensions	21.2 × 8.9 × 35.5 cm
Weight	less than 4 kg
Operating Temperature	0 to 50 C
Storage Temperature	minus 40 to 70 C
Humidity	95 percent RH non condensing 0 to 45 C
Remote Interface	RS-232
Standard Rack Kit	ED000899-A-00
Connector Code Fp	FC/PC

PARAMETER	VALUE
Wavelength range	1565 to 1610 nm
Output isolation	Minimum: 40 dB

OAB159020FP0 Specifications

PARAMETER	VALUE
Applications	L-band preamplification, single-channel optical receiver-front-end gain, and laboratory EDFA testing near 1590 nm.
LCD input/output power and current display	RS232 remote control
Technical Specifications	Model: OAB1590

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 to 70 C
Operating temperature	0 to 50 C
Operating Temperature	0 to 50 C
Humidity	95 percent RH non condensing 0 to 45 C
Remote Interface	RS-232
Standard Rack Kit	ED000899-A-00
Connector Code Fp	FC/PC Notes From JDS Uniphase OAB datasheet 10109630 OAB1590 L-band pre-amp column. Confirm high-power and connector codes in the full catalog string such as 20FP0.

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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Notes

From JDS Uniphase OAB datasheet 10109630 OAB1590 L-band pre-amp column. Confirm high-power and connector codes in the full catalog string such as 20FP0.

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.