

**Aumictech**

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Data Sheet

August 15, 2026

JDS UNIPHASE

JDS Uniphase SDL 81

The JDS Uniphase SDL 81 is a laser diode system available in multiple configurations for fiber-coupled optical applications. The SDL 8110-B delivers 10W at 808nm wavelength, while the SDL 81-S97D8 provides 1W output at 1310nm. Both variants function as diode laser sources suitable for integration into larger optical systems requiring high-reliability semiconductor laser excitation. Aumictech offers NIST-traceable calibration and repair for the JDS Uniphase SDL 81. Calibration covers output power at specified wavelengths, wavelength accuracy, 15-minute output stability, and modulation frequency accuracy where applicable. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Common JDS Uniphase SDL 81 faults: laser diode end-of-life (output below spec), fiber output connector damage, output instability. Common repairs include la



MODEL

JDS Uniphase SDL 81

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SDL 81

LISTING

<https://aumictechlabs.com/products/sdl-81-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The JDS Uniphase SDL 81 is a laser diode system available in multiple configurations for fiber-coupled optical applications. The SDL 8110-B delivers 10W at 808nm wavelength, while the SDL 81-S97D8 provides 1W output at 1310nm. Both variants function as diode laser sources suitable for integration into larger optical systems requiring high-reliability semiconductor laser excitation. Technical Specifications SDL 8110-B: 10W power output, 808nm wavelength, fiber optic diode laser system SDL 81-S97D8: 1W power output, 1310nm wavelength, fiber laser source Power Input

(SDL 8110-B): 120VAC 60Hz Dimensions (SDL 8110-B): 10 1/2 × 10 3/8 × 5 inches Fiber Optic Connector (SDL 8110-B): Sub Miniature A 1/4"-36 Thread Controller Interface (SDL 8110-B): 40-Pin Ribbon Cable Header Key Features Dual-wavelength platform supporting 808nm and 1310nm operation Direct fiber-coupled output via SMA connector AC-powered operation eliminates external supply requirements Compact benchtop form factor Ribbon cable control interface for system integration Typical Applications Diode laser sources for fiber-optic systems, materials processing, pumping applications, and spectroscopic instrumentation requiring semiconductor laser outputs in the near-infrared spectrum. Compatibility & Integration The SDL 81 series functions as a component within optical systems. Pairing with compatible laser diode drivers - such as units rated for continuous or quasi-continuous wave operation up to 10 amps - extends system capability for applications requiring external drive current control.

SDL81 Characteristics / Specifications

PARAMETER	VALUE
Model	SDL 81
Configured Build	SDL 81-S97D8
Instrument Type	980 nm class pump laser diode
Family	Spectra Diode Labs SDL-81xx
Wavelength Class	980 nm pump
Use Case	EDFA pump
Package	fiber-coupled pump laser
Manufacturer	Spectra Diode Labs / JDS Uniphase / VIAVI
Related Amplifier	ErFA1215-PM-B2 erbium fiber amplifier family
Form Factor	pump laser module
Operating Temperature Class	laser-diode case window
Literature	JDSU SDL 81 pump laser listings
Drive	laser current / TEC class
Fiber	single-mode pump fiber class
Documentation Type	OEM pump-laser catalog
Brand Lineage	SDL JDS Uniphase VIAVI
System Role	980 nm pump
Connector Class	fiber pigtail/connector per build
Safety	Class 3B/4 laser class per label
Pinout	SDL-81 package pinout
Cooling	TEC in butterfly class packages
Calibration Source	OEM published specifications
Operating temperature	Class: laser-diode case window

SDL81 Specifications

PARAMETER	VALUE
JDS Uniphase SDL 81 980 nm Pump Laser Family	Overview
Applications	EDFA 980 nm pumping and fiber-laser pump injection.
Key Features	SDL-81xx 980 nm pump family
JDSU Spectra Diode Labs lineage	Configured build SDL 81-S97D8
Technical Specifications	Model: SDL 81

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laser-diode case window
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Literature	JDSU SDL 81 pump laser listings
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System Role	980 nm pump
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Safety	Class 3B/4 laser class per label
Pinout	SDL-81 package pinout
Cooling	TEC in butterfly class packages
Calibration Source	OEM published specifications Notes From JDS Uniphase / SDL 81 980 nm pump-laser family identity. Kink-free power, exact wavelength, and NA are on the SDL 81 / S97D8 device data sheet and are not invented here.

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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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.