Optical Fiber Systems, Inc.
(603) 291-0345 info@opticalfibersystems.com

DLS-976-008

Our DLS-976-008 is a diode laser system delivering up to 8.0 W of optical power at a wavelength of 976 nm out of a small optical fiber. The system includes a pigtailed laser diode, driver and control electronics as well as a TEC cooling module. It also incorporates an automatic temperature tuning mechanism that keeps the wavelength centered around 976nm at any power level. The laser energy is delivered out of a small optical fiber with a 100 micron core diameter and 0.12 Numerical Aperture terminated with a FC connector that is permanently attached to the unit.

Laser activation is controlled with the ON and OFF switch on the front panel and the power level is adjusted by the potentiometer on the front panel. The turn-on and turn-off response time of the driver circuit is approximately 2 msec, allowing modulation of the laser output at a maximum frequency of approximately 200 Hz.

Front panel view

Specifications:

Wavelength:	976 +/-2 nm	Power:	8.0 W MAX	Mode:	Continuous
Laser delivery:	Permanently attached Fiberoptic cable.			Cable Length:	0.7 m
Fiber size:	100 micron	N. A. :	0.12	Termination:	FC
Width:	10.24"	Height:	4.38"	Depth:	9.81"
Electrical Supply:	100-240 VAC, 50-60 Hz (~1A typical)			Weight:	5 lbs

Options:

The unit can be provided with other types of terminations such as SMA905 connector, ST connector, or bare cleaved fiber at no additional cost. To specify the options, simply add at the end of our model number the following letter for the desired termination type: M for SMA connector, T for ST connector, C for cleaved fiber. Contact our factory for additional options.
(Example: DLS-976-008-M would be a diode laser system with a fiber pigtail terminated with a SMA connector)

Disclaimer:

This laser product is designated solely as an OEM component to be incorporated into another end product. Therefore, it does not comply with the appropriate requirements of FDA 21CFR, section 1040.10 and 1040.11 for complete laser system.

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