

FIBER PIGTAILED TEMPERATURE CONTROLLED LASER DIODE HOUSING

FEATURES:

- · Highly stable power output
- · Highly stable wavelength
- Good coupling efficiency
- Low backreflection
- · Wide wavelength range
- · Singlemode, multimode, polarization maintaining fiber versions
- · Adjustable output power
- · Optional OEM laser diode and Peltier driver electronics
- · Receptacle and pigtail versions
- · Laser driver is externally TTL modulatable

APPLICATIONS:

- · Interferometric sensors
- · Wavelength and power stabilized laser diode sources
- · Long term stability measurements

SPECIFICATIONS:

• Available Wavelengths: 635 - 1625nm

Backreflection: -25, -40, -50, and -60dB

• Connector Types: NTT-FC/PC, Super NTT-FC/PC,

Ultra NTT-FC/PC, Angled SC, Angled NTT-FC/PC, SC, AT&T-ST,

SMA905, SMA906

• Extinction Ratio: 20, 25, or 30dB for PM fiber

Case Temperature Control

Preset in the Factory: From 15°C to 25°C to within ±0.1°C

• Optical Coupling 30% - 60% in SM fiber Efficiency: 60% - 95% in MM fiber



CW: Currents up to 120mA can be sourced in constant optical power (CW) mode.

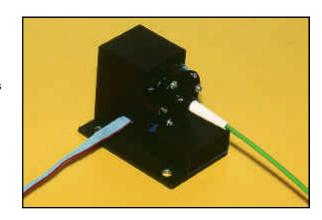
TTL: Currents up to 250mA can be sourced at frequencies up to 20MHz.

Higher power versions are available. Contact OZ Optics for further information.

• Peltier Driver Electronics (OEM Version):

Matching requirements for the unit in Figure 1 is 3 Amp, 5 Volt. Higher power versions are available. Contact OZ Optics for further information.





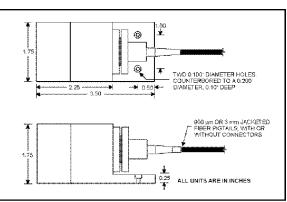


Figure 1

日本デバイス株式会社 E-mail sales@j-device.com

www.j-device.com Tel 03-6262-3424 Fax 03-6800-5883

PRODUCT DESCRIPTION:

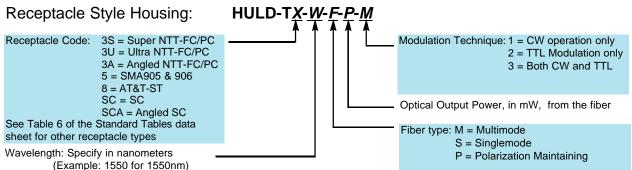
The laser diode housing consists of an emitter (either a laser diode, LED, or SLED), a Peltier cooler, heatsink, and coupling optics into the fiber. The Peltier controller and laser diode driver electronics are external to the housing. A current source is required for the Peltier cooler. Upon request, OZ Optics can provide a complete OEM turnkey laser diode housing with a laser diode driver and Peltier cooler controller electronics. The control electronics for the Peltier include a temperature sensor on the laser diode side, and on the heat sink side. External control and modulation signals use pigtailed BNC connectors.

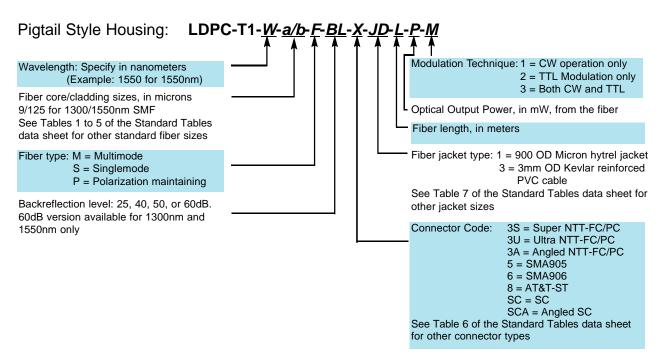
A special version of the unit comes with a blocking screw to control the light output. This allows the user to control the ouput power from the source without adjusting the source current. This ensures that the output wavelength from the source is as stable as possible.

The laser diode housing shown in Figure 1 is designed for diodes with less than 150mW of optical power. Oz Optics manufactures housings for diodes with more than 150mW of optical power. Contact OZ Optics for further information.

OZ Optics can also design customer specified complete laser diode to fiber delivery systems, including optical coupling mechanisms, fibers, collimators/focusers, driver electronics, and software. Contact OZ Optics for further information.

ORDERING INFORMATION:





NOTES: Add "-DR" to the end of the part number to include Laser Diode Driver Electronics.

Add "-PC" to the end of the part number to include Peltier Cooler Controller Electronics.

Add "-PS" to the end of the part number to include a power supply.

Add "-LD" to the end of the part number if the laser diode is to be supplied by OZ Optics.

Add "-BL" to the end of the part number if a blocking screw is required.

Contact OZ Optics for other versions.