

PD-LD Inc. offers its' DFB Series of coaxial style laser diodes with integral single stage optical isolators. The addition of these isolators ensures a minimum optical isolation of 33dB at either 1310 or 1550nm at 25°C. Optical isolation is temperature dependent and is specified as 20dB minimum over the entire operating temperature range of -40 to +85°C. These units are available in ready-to-use, fiber-pigtailed packages and are available with FC, SC and LC style optical connectors.

The InGaAsP DFB laser diodes offered by PD-LD are available in standard wavelengths centered at 1310 and 1550nm. Fibercoupled CW (continuouswavelength) output powers range from 0.1 - 2 mW, depending on the desired performance level. The highly stable YAG Laser welded packaging ensures a low tracking error of +/- 1.0 dB maximum over OTR -40 to +85C.



Features

- Internal Monitor Photodetector
- Compact, reliable, coax fiber- coupled package
- 0.1 2.0 mW singlemode (9/125)
- 30dB minimum side mode su- pression

Applications

- Fiberoptic communications Fiberoptic test instrumentation Analog Signal trans-
- Analog Signal transmission

Performance Specifications: Typical Product Configurations (more options available)

nuous Wavelength In	
J001100B-R-I-01	InGaAs 0.1 0.8
N0.51FAA-0-I-01	InGaAs 0.1 0.8
J0011SAA-0-I-01	InGaAs 0.1 0.8
//и0011FAA-0-I-01	InGaAs 0.1 -
N0.51FAC-R-I-01	InGaAs 0.1 0.8

Parameter	Condition	Min	Тур	Max	Unit
Optical Isolation	Temp.= $+25$ °C	30	45	_	dB
	Temp.=-40~+85°C	20	_		

¹Examples only; most device/packaging combinations available.

Changes to specifications may be made without notice.

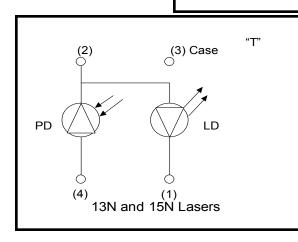
2-11 Isolated DFB. Rev.2

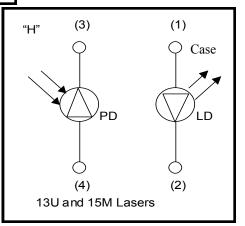


Packaging Options:

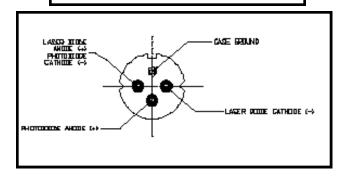
Optional board- or panel -mount flanges are available for pigtailed devices; for more information, contact PD-LD Sales.

Laser Diode Schematic

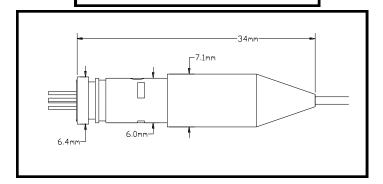




Laser Diode Lead Orientation for "15AA"



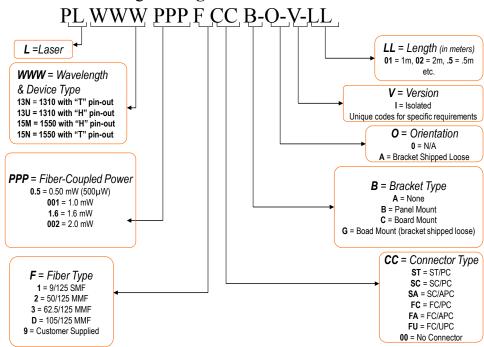
Coaxial-Pigtailed Laser Diode Package Consult PD-LD for Available Board Mount (10181 or



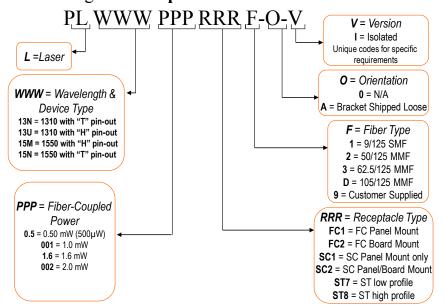
¹Examples only; most device/packaging combinations available.



Data Legend: Pigtailed Isolated DFB Lasers



Data Legend: Receptacle Isolated DFB Laser Diodes



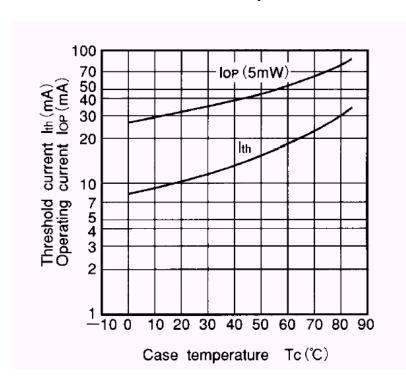
¹Examples only; most device/packaging combinations available.

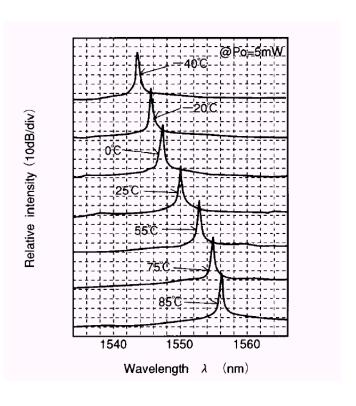
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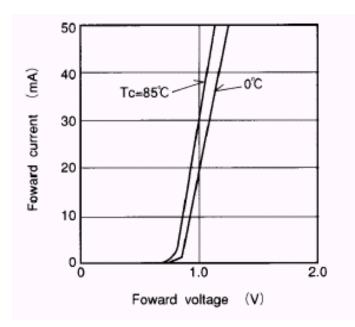
2-11 Isolated DFB. Rev.2

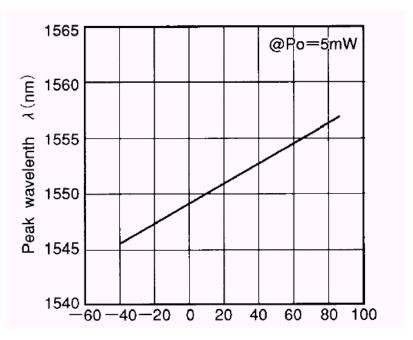


Optical Characteristics for 1550nm DFB Lasers









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