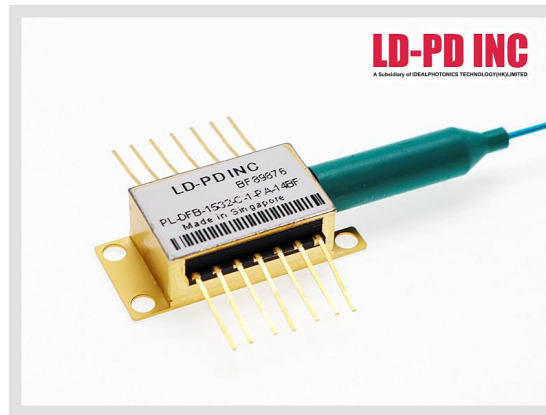


1532nm PM high power DFB Laser diodee (Type B)



Description

The PL-DFB-1532-C-1-PA-14BF 1532nm DFB laser diode module made by LD-PD is a cost effective, highly coherent laser source. The DFB laser diode chip is packaged in an industry standard hermetically sealed 14 pin butterfly package with TEC and PD Built in.

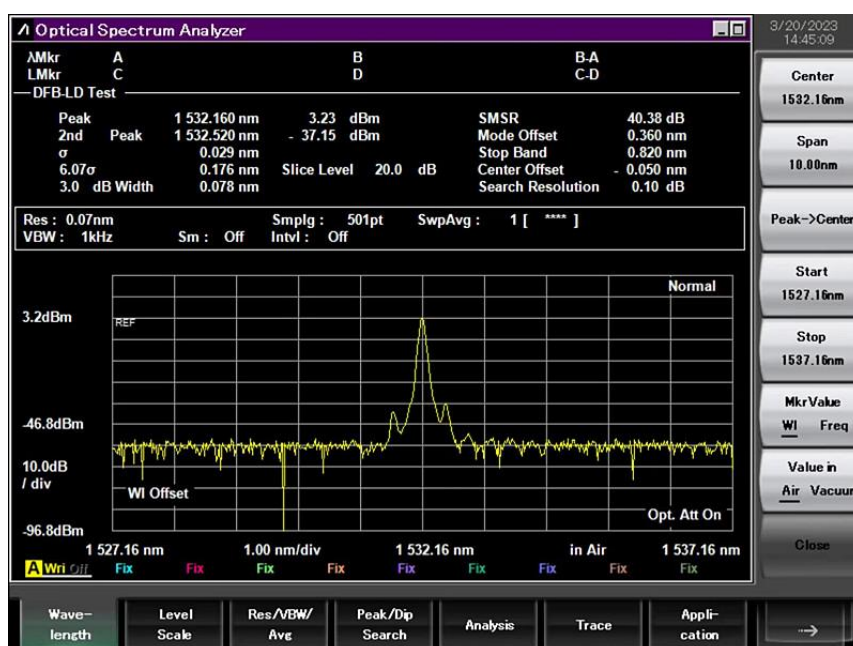
Features

- Narrow Linewidth < 2MHz
- Excellent wavelength control and stability
- Industry Standard 14 pin Butterfly package
- Mode-Hop free tuning
- Excellant reliability
- Customer specific wavelengths available

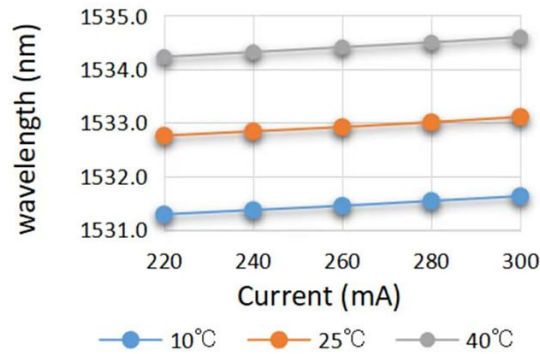
Application

- Tunable diode laser absorption spectroscopy
- C2H2 Monitoring

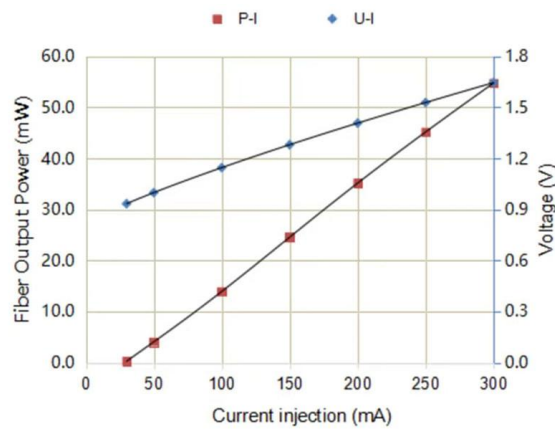
Tsub=25°C, CW bias unless stated otherwise



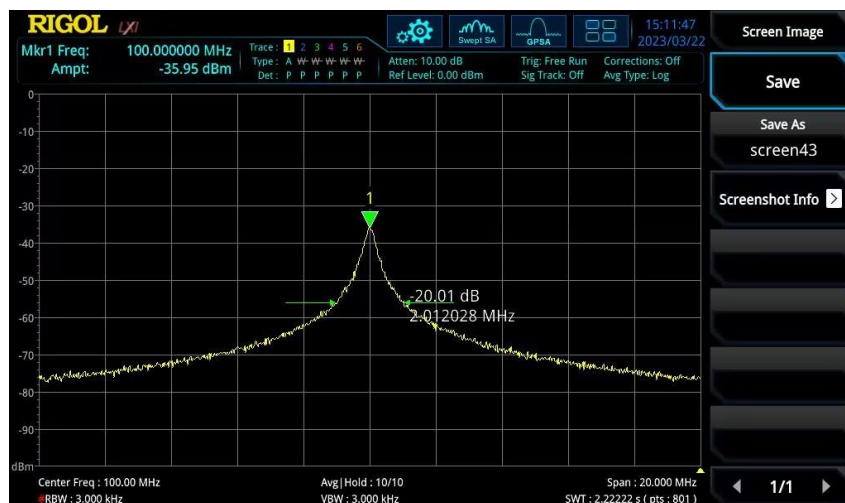
Tuning Characteristics



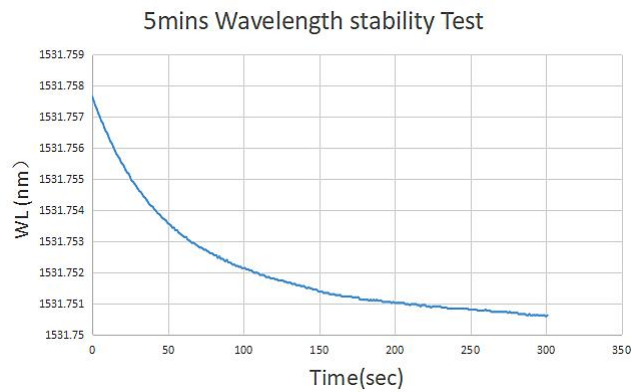
L-I Curve



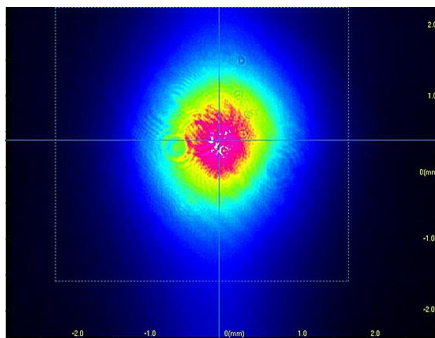
DFB Linewidth Testing Result



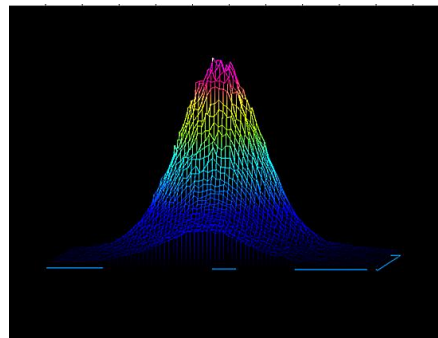
Wavelength Stability



Beam Quality



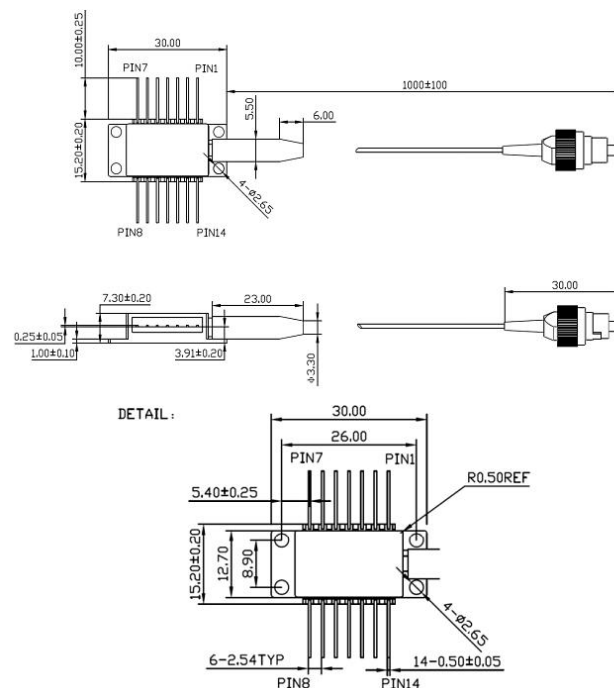
2D

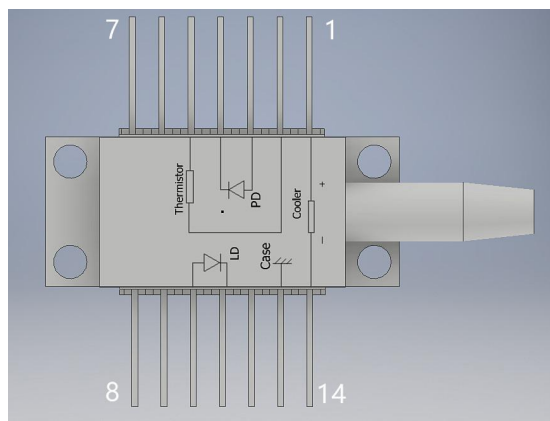


3D

Dimensions and Pin definitions

TYPE B





TYPE B Pin Connection

1	Thermoelectric Cooler (+)	8	N/C
2	Thermistor	9	N/C
3	PD Monitor Anode (-)	10	Laser Anode (+)
4	PD Monitor Cathode (+)	11	Laser Cathode (-)
5	Thermistor	12	N/C
6	N/C	13	Case Ground
7	N/C	14	Thermoelectric Cooler (-)

Absolute Maximum Ratings

Item	Unit	Min	Typ	Max
Case Temperature	°C	-5	25	70
Chip Temperature	°C	+10	25	40
Operating Current	mA	0	200	300
Forward Voltage	V	0.8	1.2	1.8
TEC Current	A	-	-	1.2
Reverse Voltage (LD)	V	-	-	2.0
Reverse Voltage(PD)	V	-	-	20

Ordering Info

PL-DFB-□□□□-☆-A8▽-xx-14BF

□□□□: Wavelength

1270: 1270nm

1532: 1532nm

1392: 1392nm

1512: 1512nm

1567: 1567nm

1653.7: 1653.7nm

☆ : Output Power

A: 10mW

B: 20mW

C: 40mW

▽: Wavelength Tolerance

1: ±1nm

2: ±2nm

XX: Fiber and Connector Type

SA=SMF-28E+ FC/APC

SP=SMF-28E+ FC/PC

PP=PM Fiber+ FC/PC

PA=PM Fiber+ FC/APC