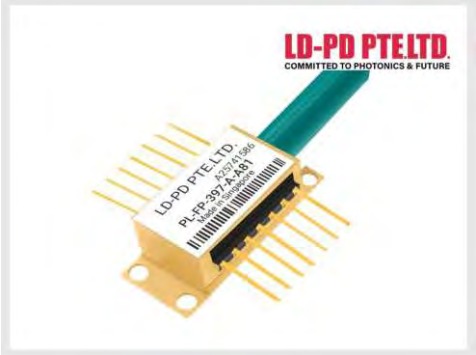
397nm FP Laser diode



Description

The PL-FP-397-A-A81 is single mode laser diode module designed for optical measurement and communication. The laser is packaged in 14-pin standard butterfly package with monitor photodiode and thermo-electric cooler (TEC).Coupled with Nufern HP460 fiber.This Module is pigtailed with 0.7-1.0 m of single mode polarization maintaining fiber and connectorized by FC/APC connector.

Features

- Optical output: 37.2mW
- FC-APC connector
- Efficient coupling into single mode fiber
- 14-pin butterfly package
- CW or pulsed operation
- Internal monitor PD and TEC
- SM or PM Fiber (ø0.9mm)

Laser Specifications

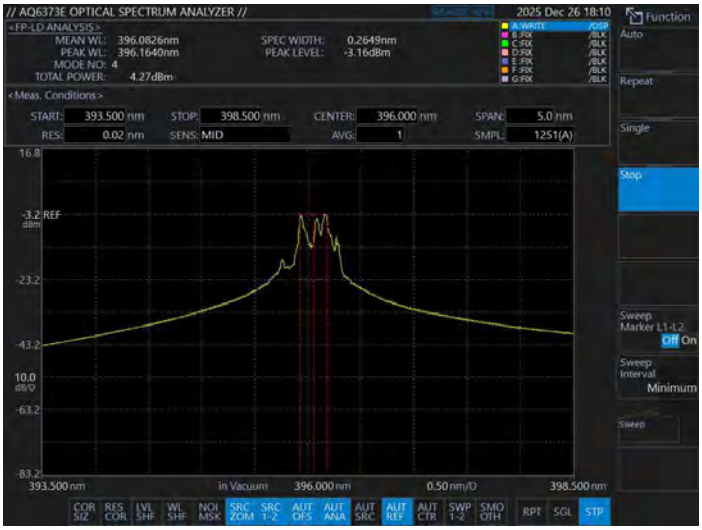
Tsub=25°C, CW bias unless stated otherwise

Parameter	Symbol	Min	Typ	Max	Unit
Centre Wavelength	λ	392	397	402	nm
Spectral Width	Δλ	0.6	0.8	1.2	nm
Threshold Current	Ith		50	60	mA
Operating Current	Iop		80	100	mA
Fiber output Power	Pf	25	30	37	mW

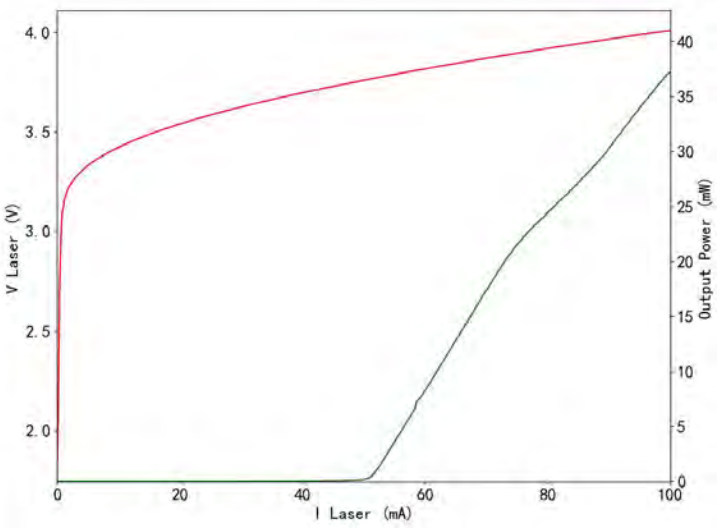
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PD Dark Current (VRD=5V)	Id			0.1	uA
Extinction Ratio（PM VERSION）	PER	17	20		dB
Coupled Fiber Type	Nufern HP460（NA=0.14）				
Forward Voltage	Vf		6	8	V
Thermistor Resistance	RT	9.5	10	10.5	KΩ
Thermistor Temp. Coefficient			-4.4		%/°C
Connector	FC/APC				

Spectrum



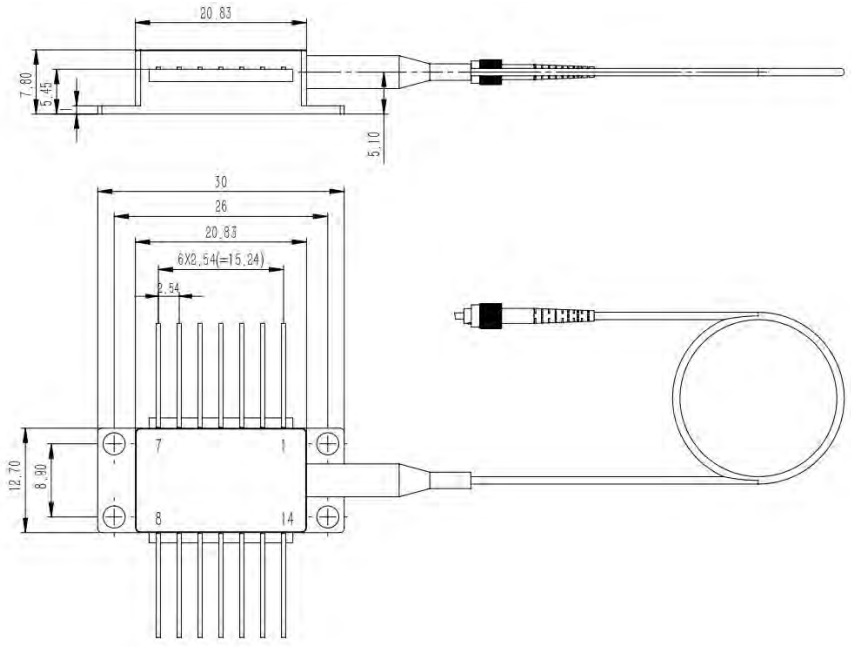
L-I Curve



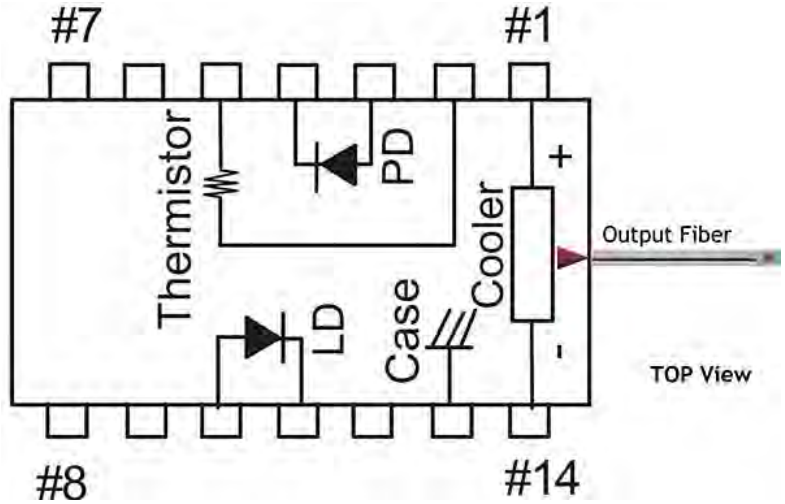
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Package Size

Unit： mm



Pin definition



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	80	100	150
Forward Voltage	V	0.8	1.2	1.8
TEC Current	A	-	1.2	1.4
Reverse Voltage（LD）	V	-	-	1.8
Reverse Voltage(PD)	V	-	-	10

Application

- Fiber transmission systems,
- Laser interferometric
- Laser indication
- Testing Light source

Ordering Info

PL-FP-□□□□-☆-A8▽-XX

□□□□: Wavelength

397:397nm

520:520nm

633:633nm

680:680nm

850:850nm

*****

1550：1550nm

☆ ： Output Power

A：20mW

B：30mW

▽： Wavelength Tolerance

1：±5nm

2：±10nm

XX: Fiber and Connector Type

SA=HP460+ FC/APC

SP=HP460+ FC/PC

PP=PM Fiber+ FC/PC

PA=PM Fiber+ FC/APC