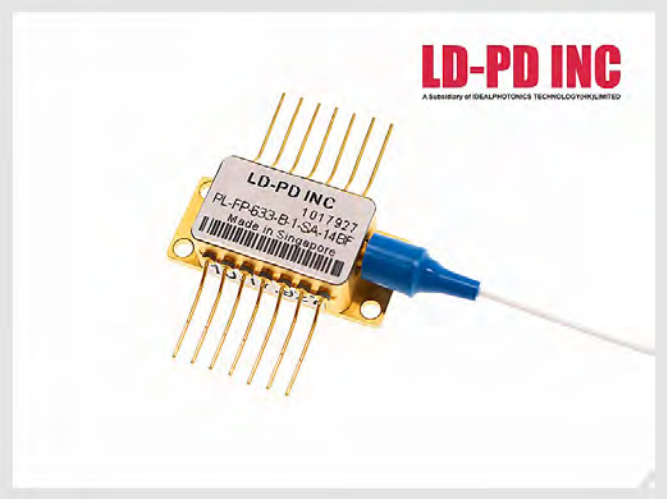
633nm FP Laser Diode



Description:

The PL-FP-633-A-1-SA-14BF 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 Fibercore SM600 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: 30mW
- 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)

Optional:

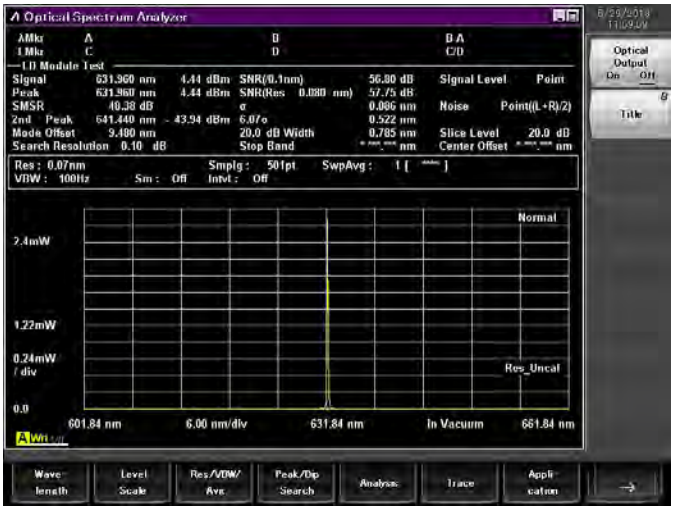
- Fiber transmission systems
- Laser interferometric
- Laser indication
- Testing Light source

Laser Specifications:

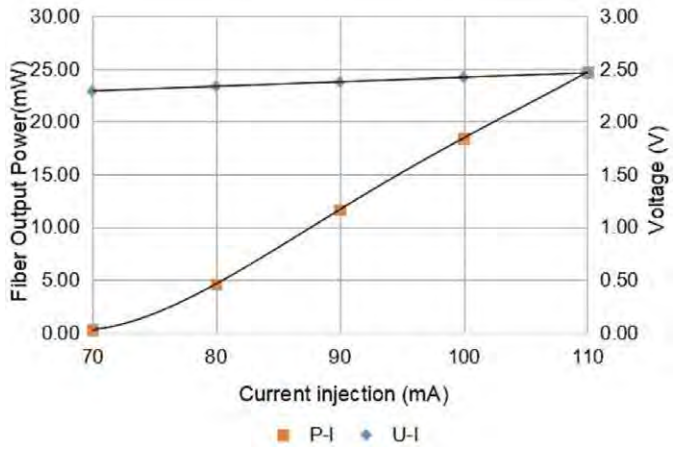
Tsub=25°C, CW bias unless stated otherwise

Parameter	Symbol	Min	Typ	Max	Unit
Centre Wavelength	λ	630	633	635	nm
Spectral Width	Δλ	0.6	0.8	1.2	nm
Threshold Current	Ith			70	mA
Operating Current	Iop		120	150	mA
Fiber output Power	Pf	10	20	30	mW
PD Dark Current (VRD=5V)	Id			0.1	uA
Extinction Ratio PM VERSION	PER	17	20		dB
Coupled Fiber Type	Fibercore SM600 (NA=0.14)				
Forward Voltage	Vf		1.8	2.5	V
Thermistor Resistance	RT	9.5	10	10.5	KΩ
Thermistor Temp. Coefficient			-4.4		%/°C
Connector	FC/APC				

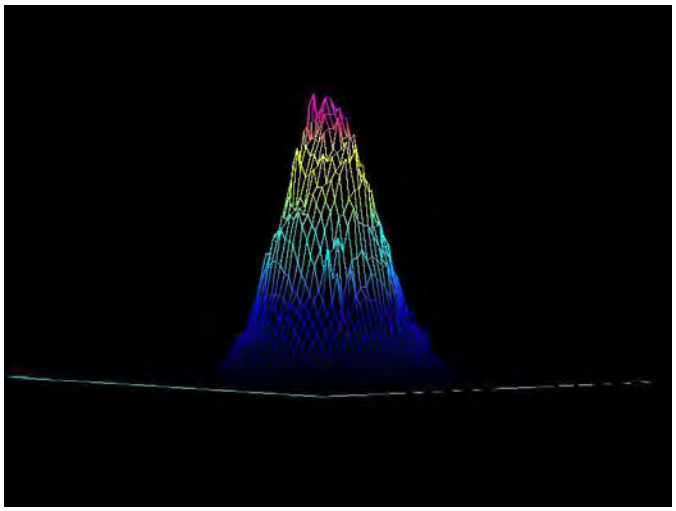
Spectrum:



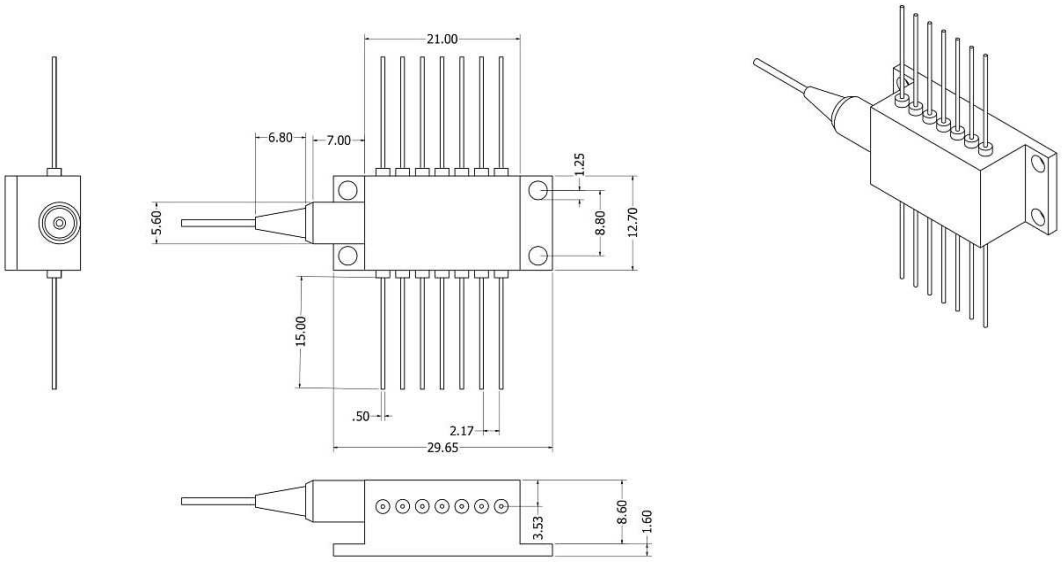
L-I Curve:



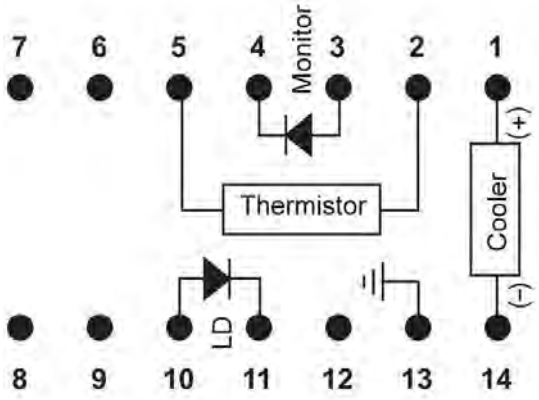
Beam Quality:



Package Size:



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	0	100	150
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-FP-□□□□-☆-▽-XX-14BF

□□□□: Wavelength

405: 405nm

633: 633nm

680: 680nm

850: 850nm

*****

1550: 1550nm

☆: Output Power

A: 20mW

B: 30mW

▽: Wavelength Tolerance

1: ±1nm

2: ±2nm

XX: Fiber and Connector Type

SA=SM600+ FC/APC

SP=SM600+ FC/PC

PP=PM Fiber+ FC/PC

PA=PM Fiber+ FC/APC