

1310nm SM Pigtailed FP Laser Diode

1310nm SM Pigtailed FP (Fabry-Perot) Laser Diode is a semiconductor optoelectronic product which can output stable laser light. It features low threshold current and high quality laser output, it's widely used in Laser imaging, fiber optic sensor and Testing System, the Laser Diode also with PD built in to monitor the optical signal power, isolator built in to avoid back reflection laser, the pigtail also can be customized to MM, PM type upon request.

Application:

Data Transmission
Fiber Optic Sensor
Laser Imaging
Testing System

Features:

Low Threshold Current
High Output Power
PD and Isolator Built In
High Reliability



Absolute Maximum Ratings:

Parameter	Symbol	Value	Unit
LD Forward Current	If	80	mA
LD Reverse Voltage	Vr	2	V
PD Forward Current	If(PD)	2	mA
PD Reverse Voltage	Vr(PD)	15	V
Operating Temperature	T	-40~+85	°C
Storage Temperature	T	-40~+85	°C
Solder Temperature	T	260	°C
Lead Solder Time		10	S

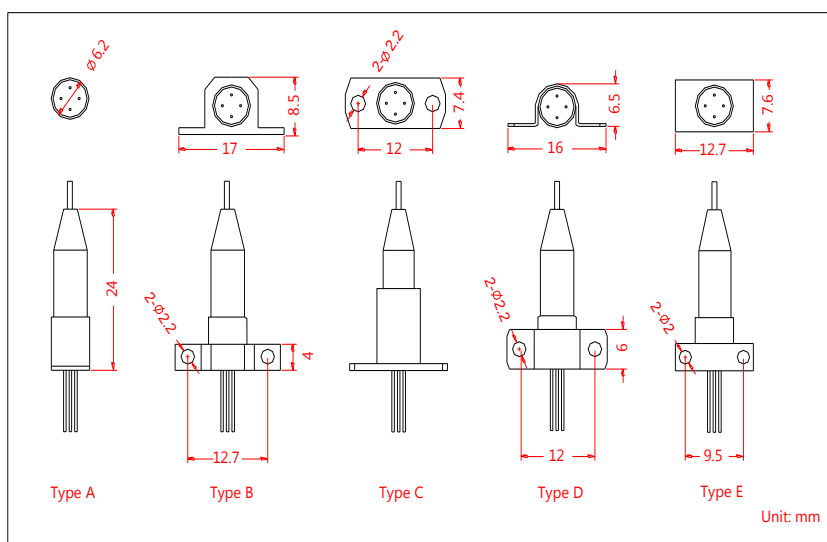
Notice: Above specifications should not be exceeded, or the LD will be seriously damaged.

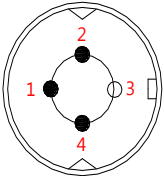
Optical and Electrical Specification:

Parameter	Symbol	Min.	Tpy.	Max.	Unit	Test Condition
Center Wavelength	λ_c	1290	1310	1330	nm	
Optical Power	Po	0.5	2	4	mW	CW
Spectral Width @-20dB	$\Delta\lambda$		2	4	nm	CW
Optical Isolation	For Single Stage	ISO	30	35	dB	
	For Dual Stage	ISO	50	55	dB	
Threshold Current	Ith		10	15	mA	CW
LD Operating Current	Iop		35	40	mA	CW, Po=2mW
LD Forward Voltage	Vf		1.2	1.5	V	
Response Time (Raise/Fall)	Tr/Tf		0.3	0.7	ns	
Monitor Dark Current	Id			1000	nA	Vr(PD)=5V
PD Monitor Current	Im	0.1		1.0	mA	CW
Fiber Type	SMF-28e Fiber					

Notice: Above specifications are tested in room temperature at 23°C.

Specifications may change without notice.

Drawing:**Pin Information:**

	Type A		Type B		Type C	
	Pin 1	PD (+)	Pin 1	PD (-)	Pin 1	PD (-)
	Pin 2	LD (+), PD (-)	Pin 2	PD (+)	Pin 2	LD (-)
	Pin 3	Case	Pin 3	LD (+), Case	Pin 3	LD (+), Case
	Pin 4	LD (-)	Pin 4	LD (-)	Pin 4	PD (+)

Ordering Information (Part Number):SMFPLD-**WWW**-**OO**-**I**-**S**-**P**-**FF**-**J**-**LL**-**CC**

WWW	OO	I	S	P	FF	J	LL	CC
Wavelength	Optical Power	Isolator	Saddle Type	Pin Assignment	Fiber Type	Fiber Jacket	Fiber Length	Connector
1310 - 1310nm	Z5 - 0.5mW 01 - 1mW 02 - 2mW 03 - 3mW SS - Specify	N - None S - Single D - Dual	A - Type A B - Type B C - Type C D - Type D E - Type E	A - Type A B - Type B C - Type C	S2 - SMF-28e	B - 250um Bare Fiber L - 900um Loose Tube	05 - 0.5m 10 - 1.0m 15 - 1.5m 20 - 2.0m SS - Specify	NE - None FA - FC/APC FU - FC/UPC LA - LC/APC LU - LC/UPC SA - SC/APC SU - SC/UPC SS - Specify

Notification:

1. The Semiconductor Optoelectronic products are particularly sensitive of ESD (electro-static discharge), it's recommended to use grounded anti-static wrist straps and grounded anti-static mats before handling the products.
2. Never plug or unplug the products under a living circuit, setting the current supply to zero before switching on or switching off the laser diode.
3. Always take anti-static measures to storage the products when not in use.

