

## CWDM PM Pigtailed DFB Laser Diode

CWDM PM Pigtailed DFB (Distributed Feedback) Laser Diode is a semiconductor optoelectronic product which can output stable laser light by the pigtailed polarization maintaining fiber. the Laser Diode with PD built in to monitor the optical signal power. It features low threshold current and high quality laser output, it's widely used in Laser imaging, fiber optic sensor and WDM System. Higher Power output type is available.

### Application:

Data Transmission  
Fiber Optic Sensor  
Laser Imaging  
Testing System

### Features:

Low Threshold Current  
High Output Power  
PD Built In  
High Reliability



### Absolute Maximum Ratings:

Parameter	Symbol	Value	Unit
LD Forward Current	If	100	mA
LD Reverse Voltage	Vr	2	V
PD Forward Current	If(PD)	2	mA
PD Reverse Voltage	Vr(PD)	15	V
Operating Temperature	T	-10~+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:

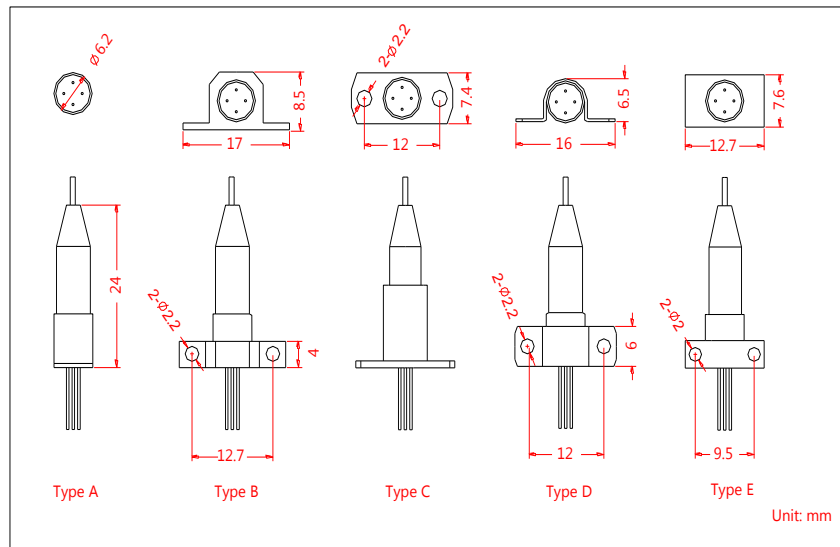
Parameter	Symbol	Min.	Tpy.	Max.	Unit	Test Condition
Center Wavelength	$\lambda_0$	$\lambda-20$	$\lambda$	$\lambda+20$	nm	
Optical Power	Po		4		mW	CW
Spectral Width @20dB	$\Delta\lambda$		0.2		nm	CW
Threshold Current	I <sub>th</sub>		12		mA	CW
LD Operating Current	If		65		mA	CW, Po=4mW
LD Forward Voltage	Vf		1.4		V	
PD Dark Current	Id			1000	nA	Vr(PD)=5V
PD Monitor Current	Im	0.1			mA	
Fiber Type	PM Panda Fiber					

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

Slow axis is default aligned to the connector key.

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):**

PMDPLD- <b>WWW</b> - <b>OO</b> - <b>S</b> - <b>P</b> - <b>J</b> - <b>LL</b> - <b>CC</b>						
<b>WWW</b>	<b>OO</b>	<b>S</b>	<b>P</b>	<b>J</b>	<b>LL</b>	<b>CC</b>
Wavelength	Optical Power	Saddle Type	Pin Assingment	Fiber Jacket	Fiber Length	Connector
1270 - 1270nm	01 - 1mW	A - Type A	A - Type A	B - 250um Bare Fiber	05 - 0.5m	NE - None
1290 - 1290nm	02 - 2mW	B - Type B	B - Type B	L - 900um Loose Tube	10 - 1.0m	FA - FC/APC
.	04 - 4mW	C - Type C	C - Type C		15 - 1.5m	FU - FC/UPC
.	SS - Specify	D - Type D			20 - 2.0m	LA - LC/APC
.		E - Type E			SS - Specify	LU - LC/UPC
1590 - 1590nm						SA - SC/APC
1610 - 1610nm						SU - SC/UPC
						SS - Specify

**Notification:**

1. The Semiconductor Optoelectronic products are particulary 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.

