SPL1064-30-PM-PD

- Fiber-Coupled Laser Diode
- 1064 nm, 30 mW
- 6 µm Polarization Maintaining Fiber
- Built-in Photodiode





Description

SPL1064-30-PM-PD is an infrared fiber-coupled laser diode, typically emitting at 1064 nm with an output power of 30 mW. It comes in a coaxial package with a mounting bracket, with 6 µm polarization maintaining fiber, FC/APC connector and built-in PD.

Additional options like closer peak wavelength selection are available on request.

Maximum Rating (TCASE = 25°C)

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Parameter	Symbol	Min.	Max.	Unit	
Reverse Voltage	V_{R}		2.0	V	
Operating Temperature	T_{OPR}	- 10	+ 50	°C	
Storage Temperature	T _{STG}	- 40	+ 85	°C	
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C	

Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			11.24
			Min.	Тур.	Max.	Unit
Peak Wavelength *1		λ _P	1054	1064	1074	nm
Output Power		Po		30		mW
Spectral Width (FWHM)		$\Delta \lambda$				nm
Threshold Current		<i>I</i> th		25	55	mA
Operating Current		I F		280	300	mA
Operating Voltage		VF		2.0	2.5	V
PD Current		<i>I</i> PD		0.2		mA
Fiber Specification	Type		Polarization Maintaining			
	Core		6			μm
	Connector *2		FC/APC			
	Length			80	100	Cm
Polarization Extinction Ratio		PER	13	15		dB

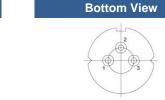
^{*1} optional: down to ±5 nm



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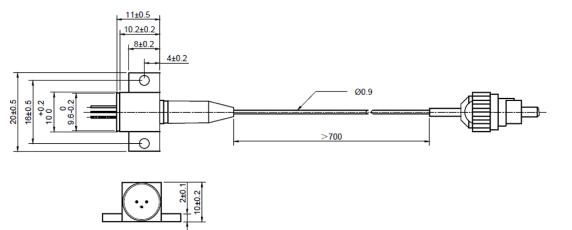
Electrical Connection

Pin Configuration*						
PIN#	Function	10	93			
1	LD Cathode	LD	PD			
2	LD Anode, PD Cathode					
3	PD Anode		2			





Outline Dimension



All dimensions in mm

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^{*} subject to change

Precautions

Safety

Caution: Laser light emitted from any laser diode may be harmful to the human eye. Avoid looking directly into the laser diode's aperture when the diode is in operation.

Note: The use of optical lenses with this laser diode will increase eye hazard

ESD Caution

Always do handle laser diodes with extreme care to **prevent electrostatic discharge**, the primary cause of unexpected diode failure. To prevent ESD related failures we strongly advise to always **wearing wrist straps**, and **grounding all applicable work surfaces**, when handling laser diodes

STATIC SENSITIVE DEVICES HANDLE ONLY AT STATIC WORK STATIONS

ATTENTION

Operating Considerations

We strongly advise to only operate this laser diode with a current source. The current of a laser diode is an exponential function of the voltage across it. **Usage of current regulated drive circuits is mandatory**.

Laser diodes may be damaged by excessive drive currents or switching transients

It is advised, to operate the laser diode at the lowest temperature possible, and to never exceed maximum specifications as outlined in the datasheet. Device degradation will accelerate with increased temperature. Proper heat sinking will greatly enhance stability and life-time of the laser diode.

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The above specifications are for reference purpose only and subjected to change without prior notice

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