



## SPL520-10-4-PD

- Green Pigtailed Laser Diode
- 520 nm, 10 mW
- 3  $\mu\text{m}$  Fiber
- single mode



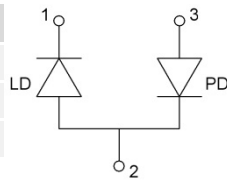
### Description

**SPL520-10-4-PD** is a green pigtailed single mode laser diode, typically emitting at 520nm with an output power of 10 mW. It comes in a coaxial package with **3  $\mu\text{m}$  single mode fiber** and FC/PC connector, integrated monitor photodiode, and **preinstalled heatsink** (see drawing on page 2).

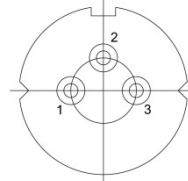
### Electrical Connection

Pin Configuration\*

Pin #	Function
Pin 1	LD cathode
Pin 2	LD anode, PD cathode
Pin 3	PD anode



Bottom View



\* subject to change

### Maximum Rating ( $T_{\text{CASE}} = 25^{\circ}\text{C}$ )

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	$V_R$		2.0	V
Operating Temperature	$T_{\text{OPR}}$	- 40	+ 60	$^{\circ}\text{C}$
Storage Temperature	$T_{\text{STG}}$	- 40	+ 85	$^{\circ}\text{C}$
Soldering Temperature (max. 3s)	$T_{\text{SOL}}$		+ 260	$^{\circ}\text{C}$

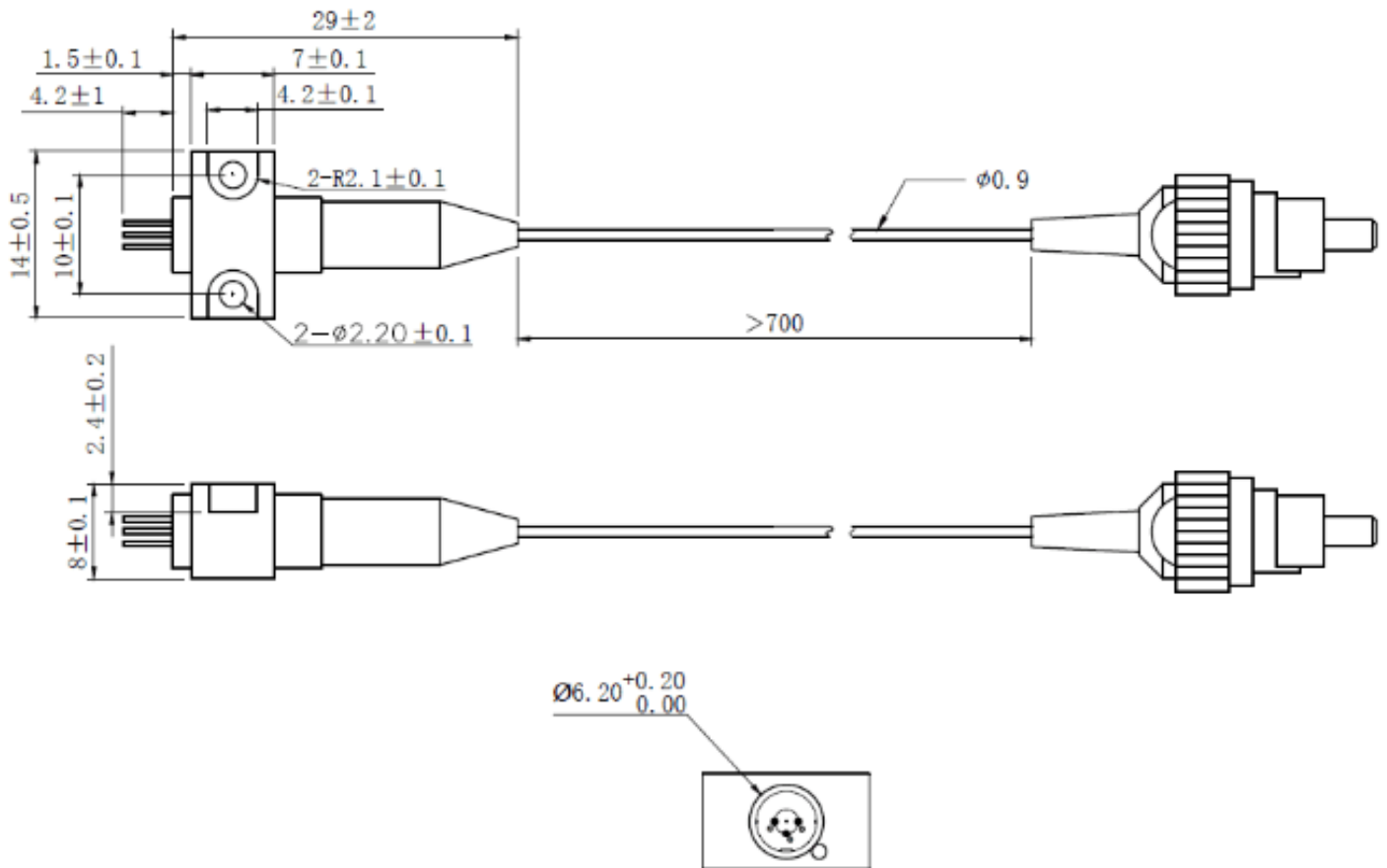


### Electro-Optical Characteristics ( $T_{\text{CASE}} = 25^{\circ}\text{C}$ )

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
<b>Peak Wavelength</b>	$\lambda_P$	<b>515</b>	<b>520</b>	<b>530</b>	<b>nm</b>
Spectral Width (FWHM)	$\Delta\lambda$		2.0		nm
Output Power	$P_O$		10		mW
Operating Voltage	$V_F$		7.5	8.0	V
Threshold Current	$I_{\text{th}}$		45	75	mA
Operating Current	$I_F$		150	160	mA
Photodiode Current	$I_{\text{PD}}$		100		$\mu\text{A}$
Fiber Specification	core		3		$\mu\text{m}$
	connector		FC/PC		
	length		80		cm



## Outline Dimensions



All dimensions in mm

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