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## SPL980-15-9-PD

- IR Pigtailed Laser Diode
- 976 nm, 15 mW
- 9 µm SM Fiber
- FC/PC connector
- Built-in PD
- Heat Sink



### Description

**SPL980-15-9-PD** is an infrared pigtailed laser diode with **built-in monitor photodiode**, typically emitting at 976 nm with an output power of 15 mW. It comes in a coaxial package with integrated heat sink, and **9 µm single mode fiber** with FC/PC connector. Variants without heat sink and different types of connectors are optionally available.

### Maximum Ratings\*

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	$V_R$		2.0	V
PD Reverse Voltage	$V_{RPD}$		30	V
Operating Temperature	$T_{OPR}$	- 10	+ 40	°C
Storage Temperature	$T_{STG}$	- 40	+ 85	°C
Soldering Temperature ( $t_{max.}$ 3s)	$T_{SOL}$		+ 260	°C

\* Operating close to or exceeding these parameters may damage the device

### Electro-Optical Characteristics (T<sub>CASE</sub> = 25°C)

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	$\lambda_P$	960	976	990	nm
Spectral Width	$\lambda_\Delta$		/		nm
Output Power	$P_O$		15		mW
Operating Voltage	$V_F$		1.7	2.2	V
Threshold Current	$I_{th}$		10	30	mA
Operating Current	$I_O$		60	70	mA
PD Monitor Current	$I_{PD}$		0.2		mA
Fiber Spec.	Type	SMF-28			
	Core diameter		9		µm
	N.A.		0.12		
	Connector		FC/PC*		
	Length		80		cm

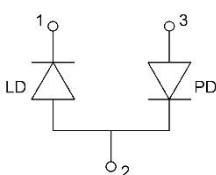
\* FC/APC, SC, SMA905 available on request



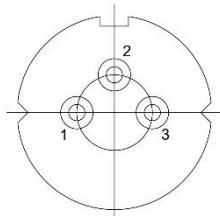
## Electrical Connection

### Pin Configuration\*

Pin #	Function
Pin 1	LD cathode
Pin 2 [case]	LD anode, PD cathode
Pin 3	PD anode

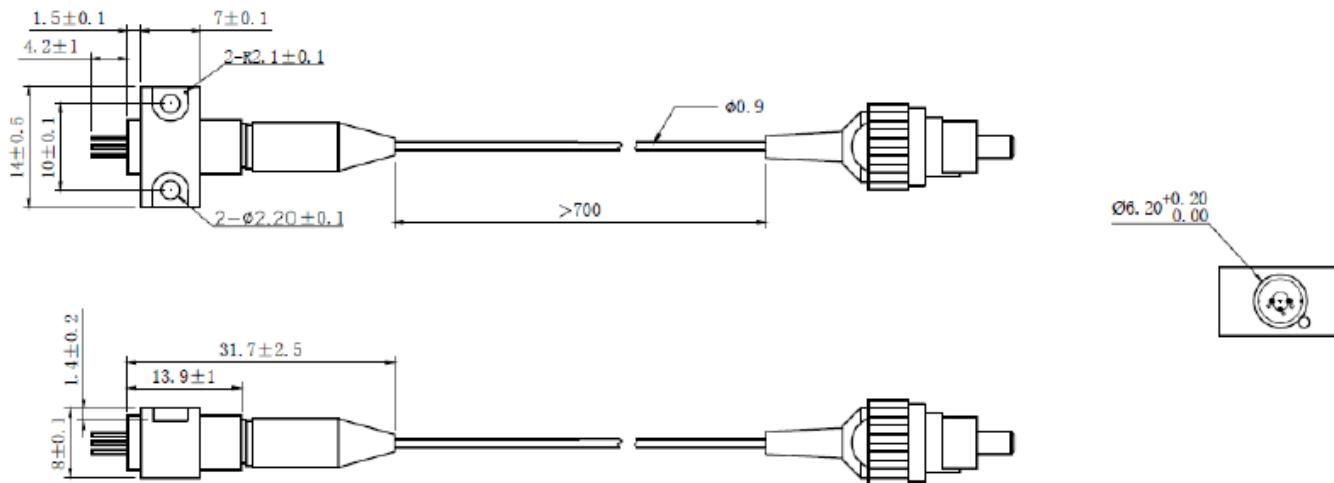


### Bottom View



\* subject to change

## Outline Dimension



All dimensions in mm

## Precautions

### Safety

Laser light emitted from any laser diode may be harmful to the human eye. **Avoid looking directly into the laser diode's aperture.** The use of optical lenses will increase eye hazard



### ESD Caution

Always do handle laser diodes with care to **prevent electrostatic discharge**. We advise to **wearing wrist straps, and grounding all applicable work surfaces**, when handling laser diodes



### Operating Considerations

**Usage of current regulated drive circuits is mandatory** We advise to operate this laser diode with a current source and heat sink, and to never exceed the maximum specifications as outlined in this datasheet.