



## SPL940-50-PM-PD

- IR Pigtailed Laser Diode
- 940 nm, 50 mW
- 5  $\mu\text{m}$  Single Mode PM Fiber
- FC/APC connector



### Description

**SPL940-50-PM-PD** is a green pigtailed laser diode, typically emitting at 940nm with an output power of 50 mW, with an integrated monitor photodiode. It comes in a coaxial package with heatsink, **5  $\mu\text{m}$  single mode polarization maintaining fiber**, FC/APC connector, and integrated monitor PD. **Different packaging options** and fiber configurations are available on request.

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

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	$V_R$		2.0	V
Operating Temperature	$T_{\text{OPR}}$	- 10	+ 60	$^{\circ}\text{C}$
Storage Temperature	$T_{\text{STG}}$	- 40	+ 85	$^{\circ}\text{C}$
Soldering Temperature (max. 3s)	$T_{\text{SOL}}$		+ 250	$^{\circ}\text{C}$

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

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
<b>Peak Wavelength</b>	$\lambda_P$	<b>925</b>	<b>940</b>	<b>955</b>	<b>nm</b>
Spectral Width (FWHM)	$\Delta\lambda$		/		nm
Output Power	$P_O$		50		mW
Operating Voltage	$V_F$		2.2	2.8	V
Threshold Current	$I_{\text{th}}$		20	50	mA
Operating Current	$I_F$		270	290	mA
Monitor Current	$I_{\text{PD}}$		0.3		mA
Polarization Extinction Ratio		13	15		dB
Fiber Specification	core		5		$\mu\text{m}$
	connector		FC/APC		
	length		80		cm

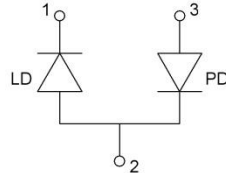




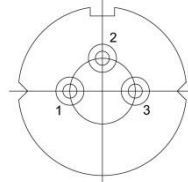
## Electrical Connection

### Pin Configuration\*

Pin #	Function
Pin 1	LD Cathode
Pin 2	LD Anode, PD cathode
Pin 3	PD Anode

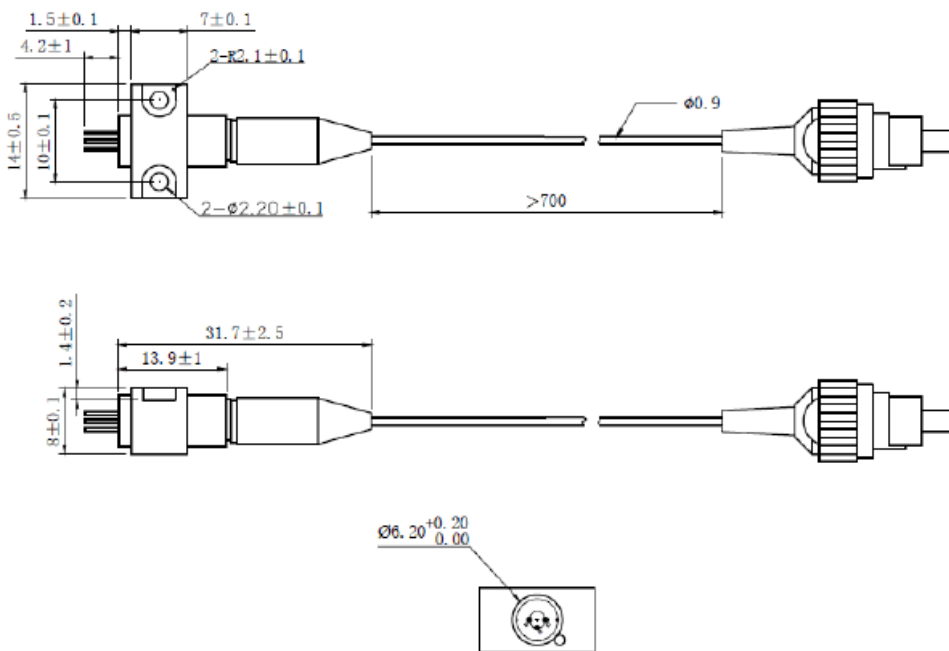


### Bottom View



\* subject to change

## Outline Dimensions



All dimensions in mm