



SPL460-30-PM

- Blue Pigtailed Laser Diode
- 460 nm, 30 mW
- 3 μm PM Fiber
- FC/APC connector
- Heat Sink



Description

SPL460-30-PM is a blue pigtailed laser diode, typically emitting at 460 nm with an output power of 30 mW. It comes in a coaxial package with integrated heat sink, and **polarization maintaining fiber** with FC/APC connector. A Variant without heat sink is optionally available.

Maximum Rating

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V_R		2.0	V
Operating Temperature	T_{OPR}	- 10	+ 70	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	- 40	+ 85	$^{\circ}\text{C}$
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	$^{\circ}\text{C}$

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

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	λ_P	450	460	470	nm
Spectral Width	λ_{Δ}		2		nm
Output Power	P_O		30		mW
Operating Voltage	V_F		6.0	7.0	V
Threshold Current	I_{th}		25	60	mA
Operating Current	I_O		140	160	mA
Fiber Spec.	Type	Polarization Maintaining			
	Polarization Ext. Ratio	13	15		dB
	Core diameter		3		μm
	N.A.		0.12		
	Connector		FC/APC		
	Length			80	cm



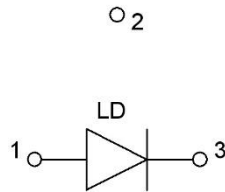


Electrical Connection

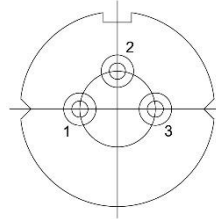
Pin Configuration*

Pin #	Function
Pin 1	LD anode
Pin 2	case
Pin 3	LD cathode

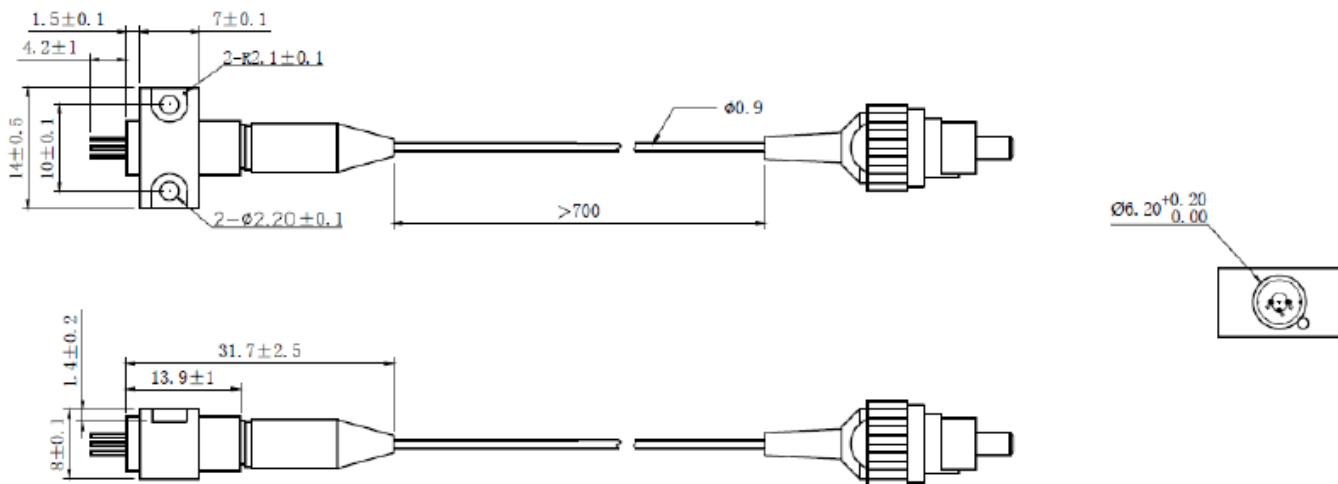
* subject to change



Bottom View



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.

