

SPL460-50-PM

- Blue Pigtailed Laser Diode
- 460 nm, 50 mW
- 3 µm PM Fiber
- FC/APC connector
- Heat Sink



Description

SPL460-50-PM is a blue pigtailed laser diode, typically emitting at 460 nm with an output power of 50 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

Deremeter	Symbol	Val	l lmit	
Parameter		Min.	Max.	Unit
Reverse Voltage	VR		2.0	V
Operating Temperature	TOPR	- 10	+ 70	°C
Storage Temperature	TSTG	- 40	+ 85	°C
Soldering Temperature (max. 3s)	$T_{\rm SOL}$		+ 260	°C

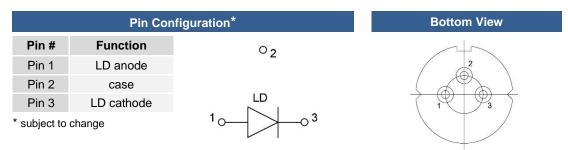
Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	Onit
Peak Wavelength		λ_{P}	450	460	470	nm
Spectral Width		λ_{Δ}		2		nm
Output Power		Po		50		mW
Operating Voltage		VF		6.0	7.0	V
Threshold Current		<i>I</i> th		25	65	mA
Operating Current		lo		150	170	mA
Fiber Spec.	Туре		Polariza			
	Polarization Ext. Ratio		13	15		dB
	Core diameter			μm		
	N.A.					
	Connector					
	Length			80		cm

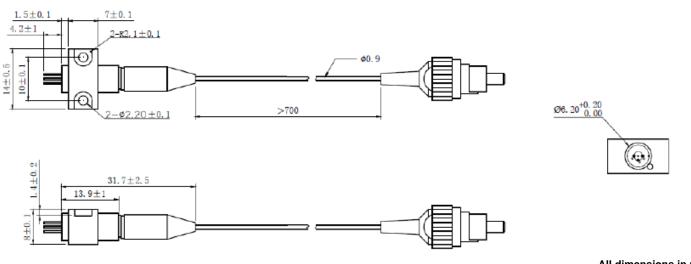




Electrical Connection



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.





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