

SPL670-50-PM

- Red Pigtailed Laser Diode
- 670 nm, 50 mW
- 4 µm PM Fiber
- FC/APC connector
- Heat Sink



Description

SPL670-50-PM is a red pigtailed laser diode, typically emitting at 670 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

Devenuetor	Symbol	Val	l locit	
Parameter		Min.	Max.	Unit
Reverse Voltage	VR		2.0	V
Operating Temperature	$T_{\rm OPR}$	- 10	+ 60	°C
Storage Temperature	TSTG	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C

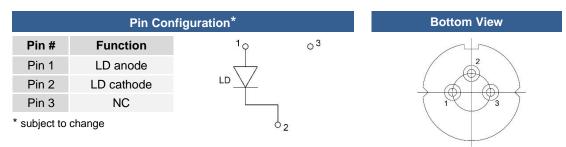
Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			11
			Min.	Тур.	Max.	Unit
Peak Wavelength		λ_{P}	660	670	680	nm
Output Power		Po		50		mW
Operating Voltage		VF		2.8	3.5	V
Threshold Current		<i>I</i> _{th}		55	80	mA
Operating Current		lo		210	230	mA
Fiber Spec.	Туре		Polarization Maintaining			
	Polarization Ext. Ratio		13	15		dB
	Core diameter		4			μm
	N.A.		0.12			
	Connector		FC/APC			
	Length			80		cm

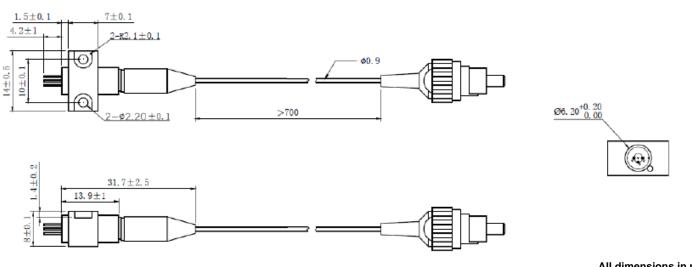




Electrical Connection



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.





© All Rights Reserved

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