

SPL670-50-SM

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





Description

SPL670-50-SM 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 $4 \mu m$ single mode fiber with FC/PC connector. Variants without heat sink and different types of connectors are optionally available.

Maximum Rating

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Parameter	Symbol	Min.	Max.	Unit	
Reverse Voltage	V_{R}		2.0	V	
Operating Temperature	T_{OPR}	- 10	+ 60	°C	
Storage Temperature	$T_{ extsf{STG}}$	- 40	+ 85	°C	
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C	

Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			Unit
			Min.	Тур.	Max.	Unit
Peak Wavelength		λ_{P}	660	670	680	nm
Spectral Width		λ_{Δ}	2.0			nm
Output Power		Po		50		mW
Operating Voltage		VF		2.8	3.5	V
Threshold Current		<i>I</i> th		55	75	mA
Operating Current		lo		200	220	mA
Fiber Spec.	Туре		Single Mode			
	Core diameter		4			μm
	N.A.		0.12			
	Connector		FC/PC*			
	Length			80		cm

^{*} SC / SMA905 con. available on request



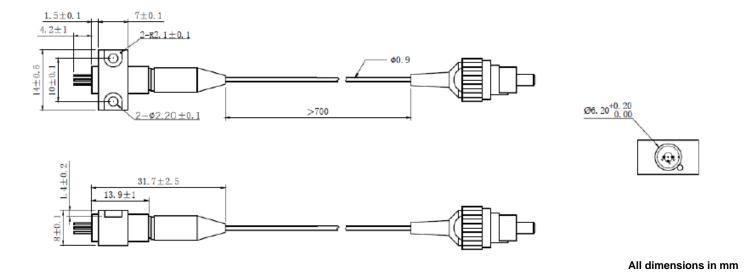
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Electrical Connection

Pin Configuration*			Bottom View		
Pin#	Function	1 ₀ 03			
Pin 1	LD anode		2		
Pin 2	LD cathode	LD			
Pin 3	NC		(1 93)		
* subject to	change	02			

Outline Dimension



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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