

SPL635-150-105M-PD

- Red Pigtailed Laser Diode
- 638 nm, 150 mW
- 105 µm MM Fiber
- FC/PC connector
- Integrated Monitor PD





Description

SPL635-150-105M-PD is a red pigtailed laser diode, typically emitting at 638 nm with an output power of 150 mW and integrated monitor photodiode. It comes in a coaxial package with heat sink, and **105 μm multi mode fiber** with FC/PC connector. Variants without heat sink and different types of connectors are optionally available.

Maximum Rating

Parameter	Symbol	Val	Unit	
raiailletei	Symbol	Min.	Max.	Ullit
Reverse Voltage	V_{R}		2.0	V
PD Reverse Voltage	V_{RP}		30	V
Operating Temperature	T_{OPR}	- 10	+ 60	°C
Storage Temperature	T _{STG}	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C

Electro-Optical Characteristics (TCASE = 25°C)

Parameter	Symbol	Values			Unit	
Parameter		Min.	Тур.	Max.	Unit	
Peak Wavelength		λ_{P}	630	638	645	nm
Output Power		Po		150		mW
Operating Vo	ltage	VF		2.8	3.5	V
Threshold Current		<i>I</i> th		70	100	mA
Operating Current		lo		280	300	mA
Monitor Current		<i>I</i> _M		0.3		mA
Fiber Spec.	Туре		Multi Mode			
	Core diameter		105			μm
	Connector		FC/PC*			
	Length			80		cm

*SC / SMA905 available on request



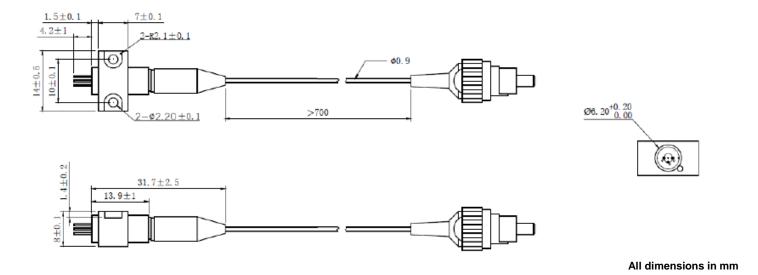
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Electrical Connection

Pin Configuration* Pin # Function Pin 1 LD cathode Pin 2 LD anode, PD cathode Pin 3 PD anode * subject to change

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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