

SPL850-120-105M-PD

- IR Pigtailed Laser Diode
- 850 nm, 120 mW
- 105 µm MM Fiber
- **FC/PC Connector**
- **Integrated Monitor PD**







Description

SPL850-120-105M-PD is a red pigtailed laser diode, typically emitting at 850 nm with an output power of 120 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.	Offic
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
			Min.	Тур.	Max.	Offic
Peak Wavelength		λ_{P}	840	850	860	nm
Output Power		Po		120		mW
Spectral Width		$\Delta \lambda$		2.0		nm
Operating Voltage		V _F		2.3	2.6	V
Threshold Current		<i>I</i> th		40	85	mA
Operating Current		lo		220	240	mA
Monitor Current		<i>I</i> _M		0.3		mA
Fiber Spec.	Type		N			
	Core diameter		105			μm
	Connector		FC/PC*			
	Length			80		cm

*SC / SMA905 available on request



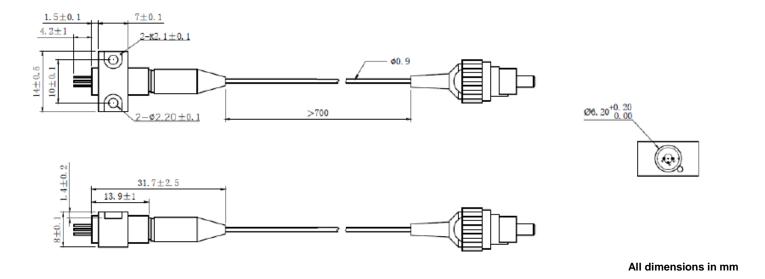
www.roithner-laser.com



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.



www.roithner-laser.com 2

[©] All Rights Reserved

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