



ROITHNER LASERTECHNIK GmbH

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SPL850-50-5-PD

- IR Pigtailed Laser Diode
- 850 nm, 50 mW
- 5 μ m Single Mode Fiber
- FC/PC connector
- Heat Sink (optional)



Description

SPL850-50-5-PD is an infrared pigtailed laser diode, typically emitting at 850nm with an output power of 50 mW, with an integrated monitor photodiode. It comes in a coaxial package with **5 μ m single mode fiber** and FC/PC connector. **SPL850-50-5-PD** is also available with an optional heat sink.

Maximum Rating (T_{CASE} = 25°C)

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V _R		2.0	V
Operating Temperature	T _{OPR}	- 40	+ 60	°C
Storage Temperature	T _{STG}	- 40	+ 80	°C
Soldering Temperature (max. 3s)	T _{SOL}		+ 250	°C



Electro-Optical Characteristics (T_{CASE} = 25°C)

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	λ_p	840	850	860	nm
Output Power	P _O		50		mW
Operating Voltage	V _F		2.3	2.6	V
Threshold Current	I _{th}		40	85	mA
Operating Current	I _F		220	240	mA
Monitor Current	I _{PD}		0.5		mA
PD Reverse Voltage	V _{PDR}		30V		
Fiber Specification	type	single mode			
	core	5			μ m
	connector	FC/PC			
	length	80			cm



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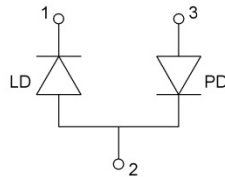
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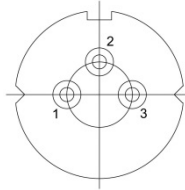
Electrical Connection

Pin Configuration*

Pin #	Function
Pin 1	LD cathode
Pin 2	LD anode, PD cathode
Pin 3	PD anode

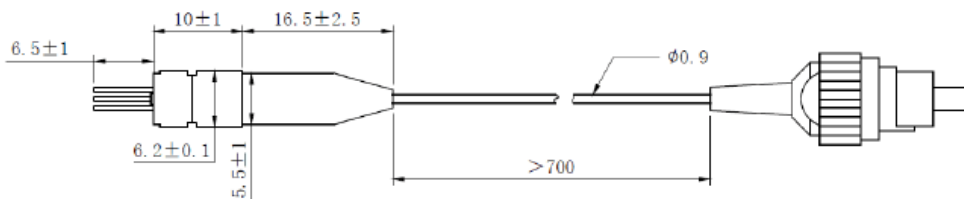


Bottom View



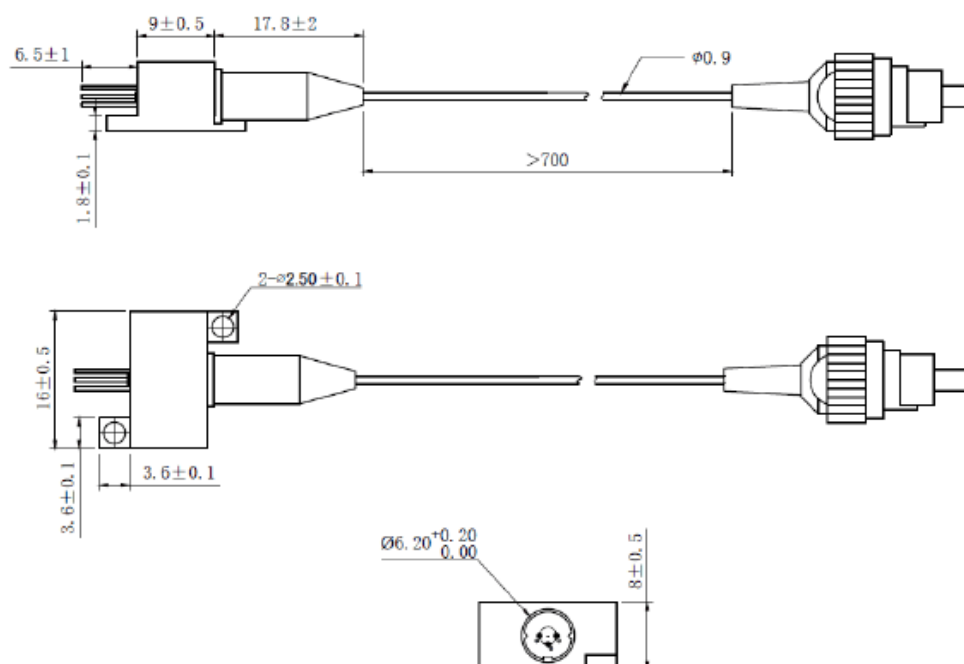
* subject to change

Coaxial Package



All dimensions in mm

B1 Package (optional)



All dimensions in mm