ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44 OFFICE@ROITHNER-LASER.COM

SPL1064-10-PM-PD

- **IR Pigtailed Laser Diode**
- **1064 nm, 10 mW**
- **6 µm Pol. Maintaining Fiber**
- **FC/APC Connector**
- **Integrated Monitor PD**

RoHS COMPLIANT Pb Pb-Free

Description

SPL1064-10-PM-PD is an infrared pigtailed laser diode, typically emitting at 1064 nm with an output power of 10 mW and integrated monitor photodiode. It comes in a coaxial package with heat sink, and **6 µm polarization maintaining fiber** with FC/APC connector. A variant without heat sink is optionally available.

Maximum Rating

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V_R		2.0	V
PD Reverse Voltage	V_{RP}		30	V
Operating Temperature	T_{OPR}	- 10	+ 50	°C
Storage Temperature	T_{STG}	- 40	+ 85	°C
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	°C

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

Parameter		Symbol	Values			Unit
			Min.	Typ.	Max.	
Peak Wavelength		λ_P	1059	1064	1069	nm
Output Power		P_O		10		mW
Spectral Width		$\Delta\lambda$		2.0		nm
Operating Voltage		V_F		1.8	2.5	V
Threshold Current		I_{th}		20	45	mA
Operating Current		I_O		100	120	mA
Monitor Current		I_M		0.2		mA
Fiber Spec.	Type		Polarization Maintaining			
	Pol. extinction ratio		13	15		dB
	Core diameter			6		µm
	Connector			FC/APC		
	Length			80		cm

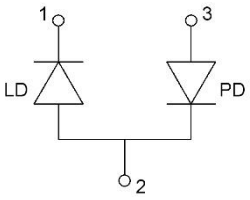
ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44 OFFICE@ROITHNER-LASER.COM

Electrical Connection

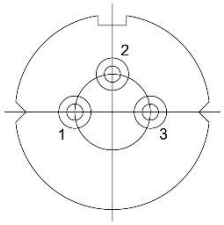
Pin Configuration*

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

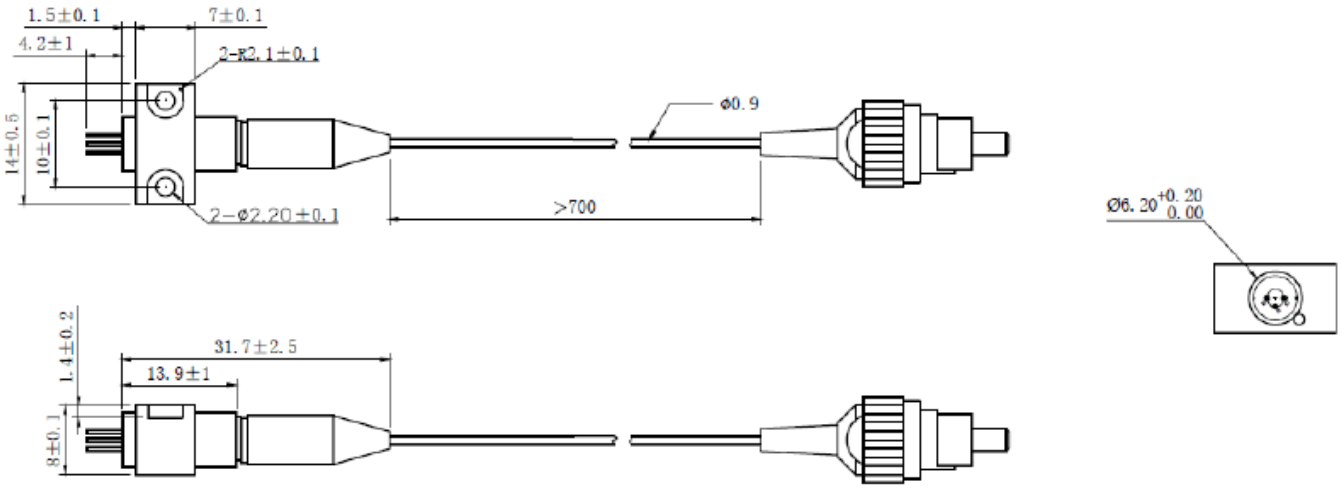
* subject to change



Bottom View



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.