

# SPL1310-10-PM-PD

- IR Pigtailed DFB Laser Diode
- 1310 nm, 10 mW
- 9 µm Pol. Maintaining Fiber
- FC/APC Connector
- Integrated Monitor PD



### Description

**SPL1310-10-PM-PD** is an infrared pigtailed DFB laser diode, typically emitting at 1310 nm with an output power of 10 mW and integrated monitor photodiode. It comes in a coaxial package with heat sink, and **9 \mum polarization maintaining fiber** with FC/APC connector. A variant without heat sink is optionally available.

# **Maximum Rating**

Devenuetor	Quarkal	Val	11		
Parameter	Symbol	Min.	Max.	Unit	
Reverse Voltage	V <sub>R</sub>		2.0	V	
PD Reverse Voltage	V <sub>RP</sub>		15	V	
Operating Temperature	TOPR	- 20	+ 50	°C	
Storage Temperature	TSTG	- 40	+ 85	°C	
Soldering Temperature (max. 3s)	T <sub>SOL</sub>		+ 260	°C	

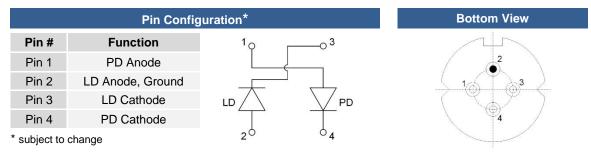
# Electro-Optical Characteristics (TCASE = 25°C)

Parameter		Symbol	Values			11
			Min.	Тур.	Max.	Unit
Peak Wavelength		$\lambda_{P}$	1300	1310	1320	nm
Output Power		Po		10		mW
Spectral Width		Δλ			3.0	nm
Operating Voltage		VF		1.4	1.7	V
Threshold Current		<i>I</i> th		5	15	mA
Operating Current		lo		70	80	mA
Monitor Current		Iм		/		mA
Fiber Spec.	Туре		Polariza			
	Pol. extinction ratio		13	15		dB
	Core diameter		9			μm
	Connector					
	Length			80		cm

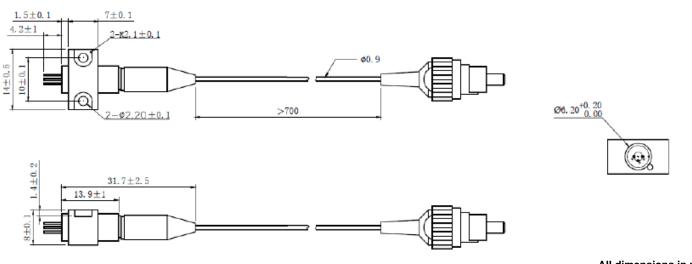




## **Electrical Connection**



# **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.





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