



ROITHNER LASERTECHNIK GmbH

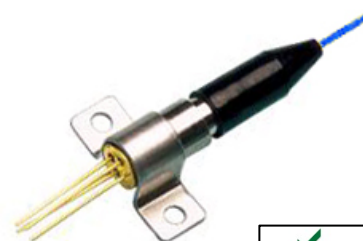
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SPL405-15-3

- Violet Pigtailed Laser Diode
- 405 nm, 15 mW
- 3 μm Fiber
- single mode



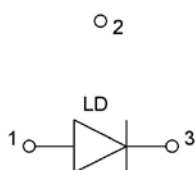
Description

SPL405-15-3 is a violet pigtailed single mode laser diode, typically emitting at 405 nm with an output power of 15 mW. It comes in a coaxial package with **3 μm single mode fiber** and FC/PC connector, and **preinstalled heatsink** (see drawing on page 2).

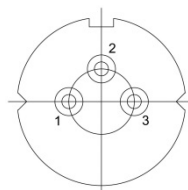
Electrical Connection

Pin Configuration*

Pin #	Function
Pin 1	LD anode
Pin 2	GND
Pin 3	LD cathode



Bottom View



* subject to change

Maximum Rating ($T_{\text{CASE}} = 25^{\circ}\text{C}$)

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V_R		5.0	V
Operating Temperature	T_{OPR}	0	+ 70	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	- 40	+ 85	$^{\circ}\text{C}$
Soldering Temperature (max. 3s)	T_{SOL}		+ 260	$^{\circ}\text{C}$

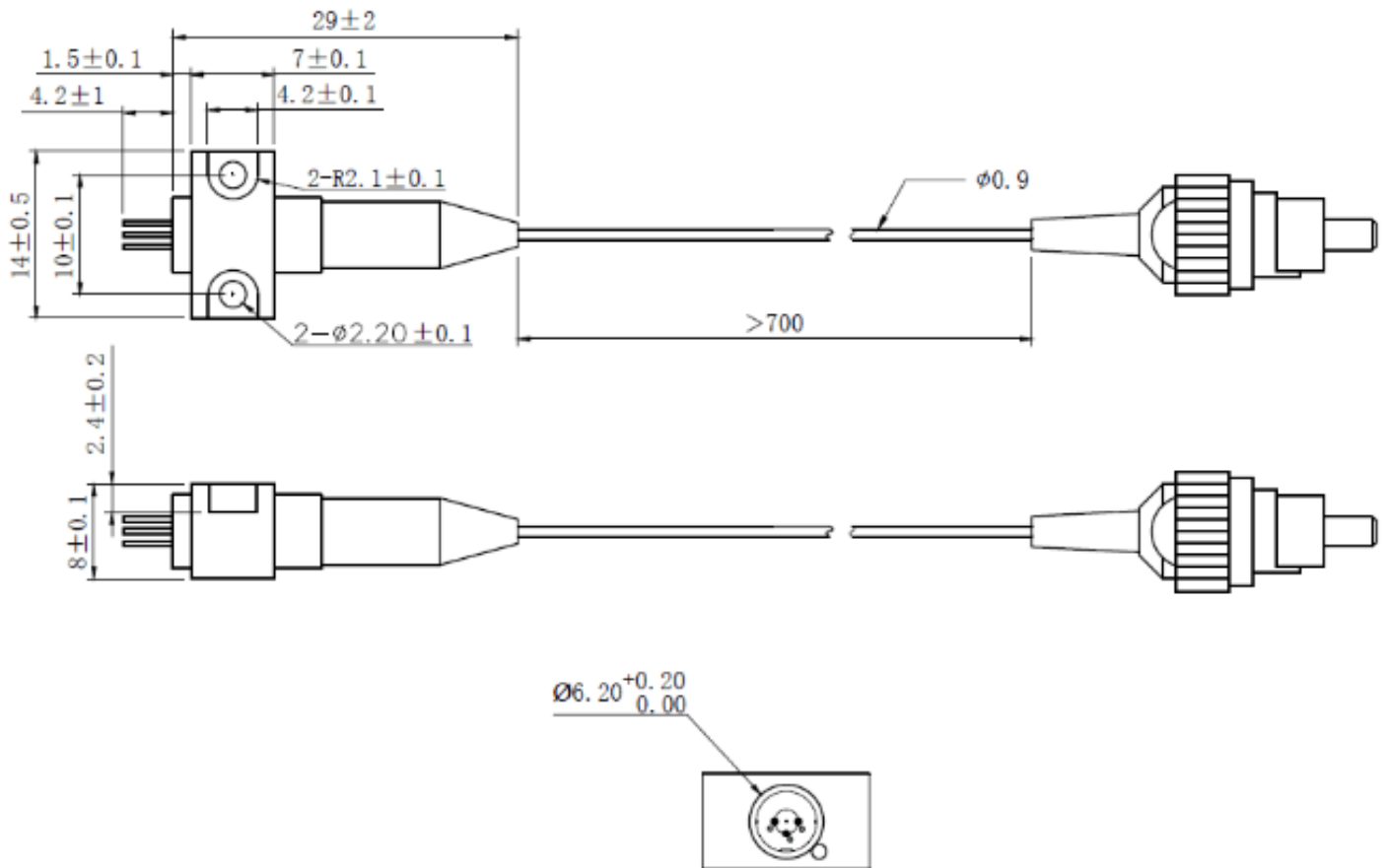


Electro-Optical Characteristics ($T_{\text{CASE}} = 25^{\circ}\text{C}$)

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	λ_P	400	405	410	nm
Spectral Width (FWHM)	$\Delta\lambda$		2.0		nm
Output Power	P_O	10	15		mW
Operating Voltage	V_F		4.6	5.5	V
Threshold Current	I_{th}		35	55	mA
Operating Current	I_F		125	140	mA
Fiber Specification	core		3		μm
	connector		FC/PC		
	length		80	100	cm



Outline Dimensions



All dimensions in mm

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