



SPL445-30-PM

- Blue Pigtailed Laser Diode
- 450 nm, 30 mW
- 3 μm PM Fiber
- FC/APC connector
- Heat Sink



Description

SPL445-30-PM is a blue pigtailed laser diode, typically emitting at 450 nm with an output power of 30 mW. It comes in a coaxial package with integrated heat sink, and **3 μm polarization maintaining fiber** with FC/APC connector.

Maximum Rating

Parameter	Symbol	Values		Unit
		Min.	Max.	
Reverse Voltage	V_R		2.0	V
Operating Temperature	T_{OPR}	- 10	+ 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 ($T_{CASE} = 25^{\circ}\text{C}$)

Parameter	Symbol	Values			Unit
		Min.	Typ.	Max.	
Peak Wavelength	λ_P	440	450	460	nm
Spectral Width (FWHM)	$\Delta\lambda$		2		nm
Output Power	P_O		30		mW
Operating Voltage	V_F		6.0	7.0	V
Threshold Current	I_{th}		25	60	mA
Operating Current	I_o		140	160	mA
Fiber Spec.	Type	Polarization Maintaining			
	Pol. Extinction Ratio	13	15		dB
	Core diameter		4		μm
	Connector		FC/APC		
	Length		80		cm



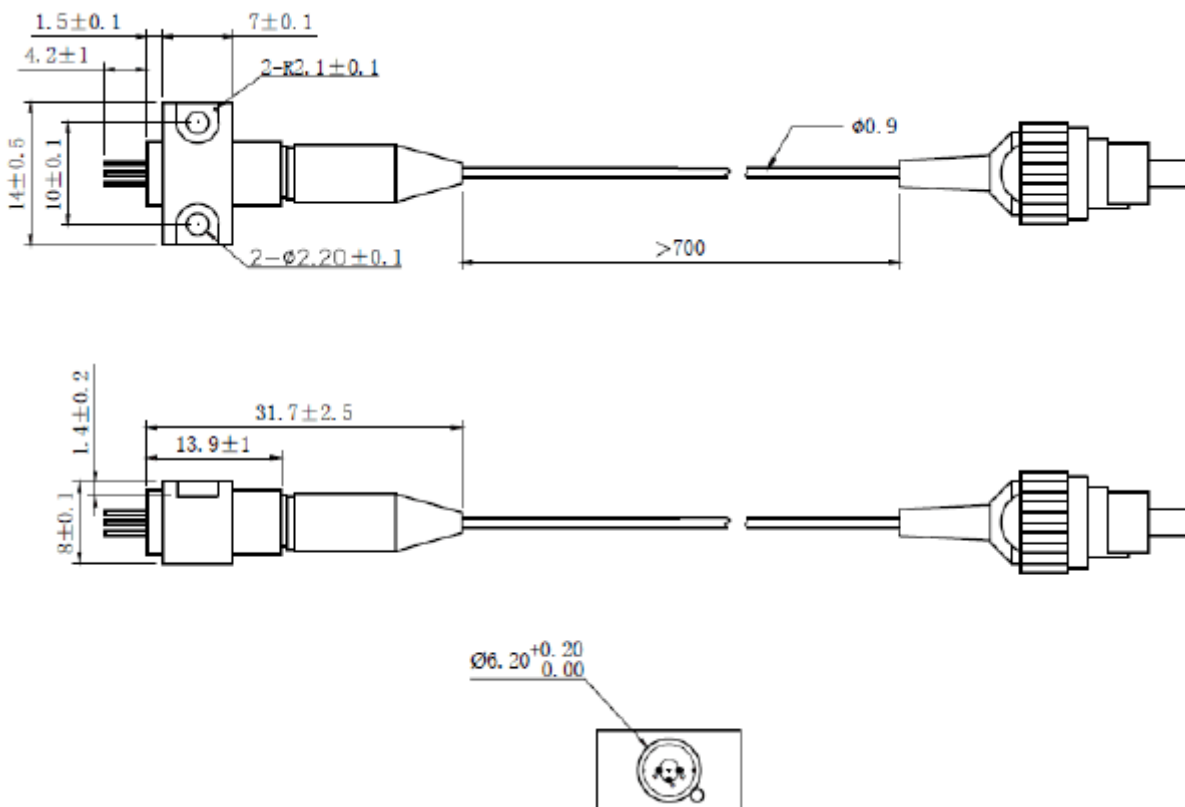


Electrical Connection

Pin Configuration*		Bottom View	
Pin #	Function		
Pin 1	LD anode		
Pin 2	GND		
Pin 3	LD cathode		

* subject to change

Outline Dimension



All dimensions in mm