LT-520050-PM-FC

520nm/50mW/ Polarization Maintaining /Fiber Coupled Laser Diode

■ Features

- 520nm Green Diode Laser
- 3.5um PM Fiber
- Coaxial Package

■ Applications

- Bio & Medical
- Measurement

■ Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Reverse Voltage	V_r (LD)	2.0	V
Operating Temperature	T_{opr}	-10 ~ +60	°C
Storage Temperature	T_{stg}	-40 ~ +85	°C
Lead soldering temperature (10 sec.)	T_{sld}	260	°C

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■ Optical and Electrical Characteristics (Tc=25℃)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Center Wavelength	λc	515	520	530	nm	Po=50mW
Spectral Width (FWHM)	△λ	—	2	—	nm	Po=50mW
Optical Output Power	Po	—	50	—	mW	Iop=320mA
Fiber Type	—	Polarization Maintaining Fiber			—	—
Fiber Core	—	3.5			um	—
Numerical Aperture	NA	0.12			—	—
Fiber Connector	—	FC，SMA905，FC/APC selectable			—	—
Fiber Length	—	90	100	110	cm	—
Threshold Current	Ith	—	70	95	mA	—
Operating Current	Iop	—	270	320	mA	Po=50mW
Operating Voltage	Vop	—	6.7	8	V	Po=50mW
Package Type	—	Coaxial			—	—

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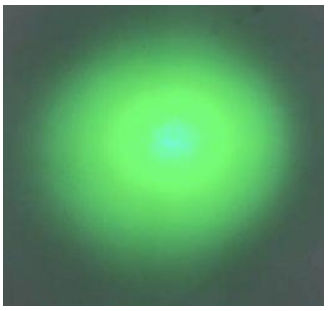
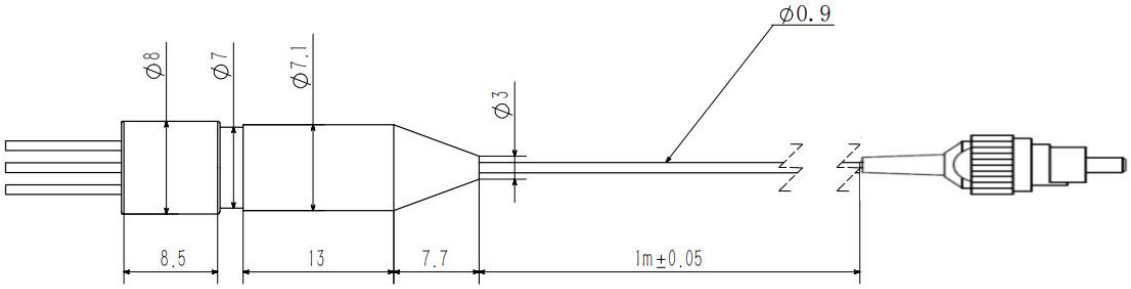
■ Beam Pattern

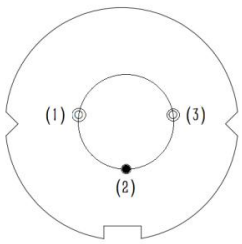


■ Coaxial Package View

Unit:mm



■ PIN Bottom View



1	**LD(+)**
2	—
3	**LD(-)**

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■ Cautions

1. Laser light can damage the human eye and skin. Do not expose the eye and skin to any laser light directly or through optical lenses. Focused laser beam through optical instruments will increase the chance of eye hazard.
2. The laser needs a stable driver to avoid surges. The instantaneous reverse current and reverse voltage should not exceed the absolute maximum ratings, otherwise it will damage the laser diode.
3. Semiconductor lasers are sensitive to temperature, working at high temperatures will reduce the photoelectric conversion efficiency and accelerate the aging of laser diode. It should be used under adequate heat dissipation or cooling conditions.
4. The laser should be used at the rated current and rated power, the output power is too high will accelerate the aging of laser diode.
5. Semiconductor lasers are electrostatic sensitive devices, anti-static measures should be taken during storage and transportation.
6. Lasers should be stored or work in a dry, ventilated environment to prevent damage to the laser from condensation.
7. The light emitting surface (cavity surface) is the key parts of the laser diode, any handling to damage the cavity surface should be strictly prohibited. It should be ensured that the laser diode is not contaminated, and damaged in mechanical.
8. The fiber should not be bent at large angles, it should be ensured that the diameter of the bend should be more than 300 times the diameter of the fiber.

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