

**OL399N-150/P20****1300nm±20nm 150mW Pulsed MQW Laser Diode Coaxial Module with MMF.****1. DESCRIPTION**

OL399N-150/P20 is a 1300nm Laser Diode in coaxial package with 50μm MMF.

**2. FEATURES**

- Fiber output: Po=150mW
- Pulsed MQW FP Laser
- Coaxial package module
- Multi mode fiber (MMF) 50μm

**3. APPLICATION**

- OTDRs
- Optical measuring instruments

**4. OPTICAL AND ELECTRICAL CHARACTERISTICS**

(TLD= 25°C, 10μs pulse width and 1% duty)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Threshold Current	I <sub>th</sub>	---	---	20	50	mA
Operation Current	I <sub>op</sub>	Po=150mW	---	600	750	mA
LD Forward Voltage	V <sub>f</sub>		---	2.0	3.0	V
Center Wavelength	λ <sub>c</sub>		1280	1300	1320	nm
Spectral Width	σ	Po=150mW, RMS×1	---	5	10	nm

**5.ABSOLUTE MAXIMUM RATING**

(Tc = 25°C, unless otherwise specified)

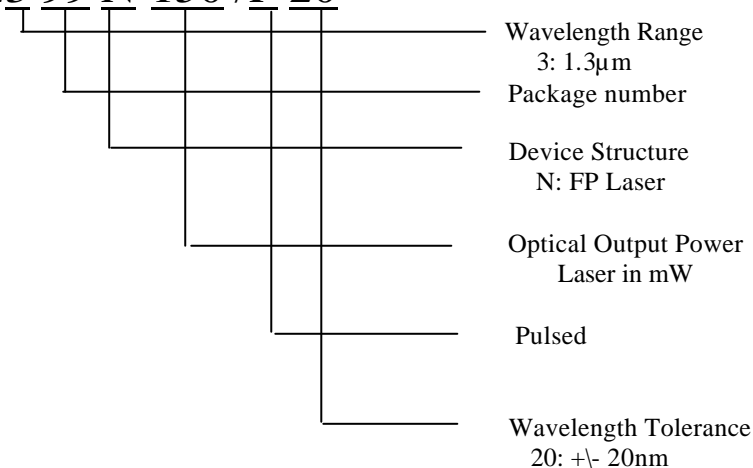
Parameter	Symbol	Rating	Unit
Fiber Output Power	P <sub>o</sub>	180*	mW
LD Reverse Voltage	V <sub>R(LD)</sub>	2.0	V
LD Forward Current	I <sub>F(LD)</sub>	1000*	mA
Operating Temperature	T <sub>opr</sub>	-20 to +60	°C
Storage Temperature	T <sub>stg</sub>	-40 to +85	°C

Pulse width ≤ 10μs , duty ≤ 1%

Exceeding these ratings may lead to immediate destruction or permanent deterioration of the device.

**6. CONNECTOR AND FIBER SPECIFICATIONS**

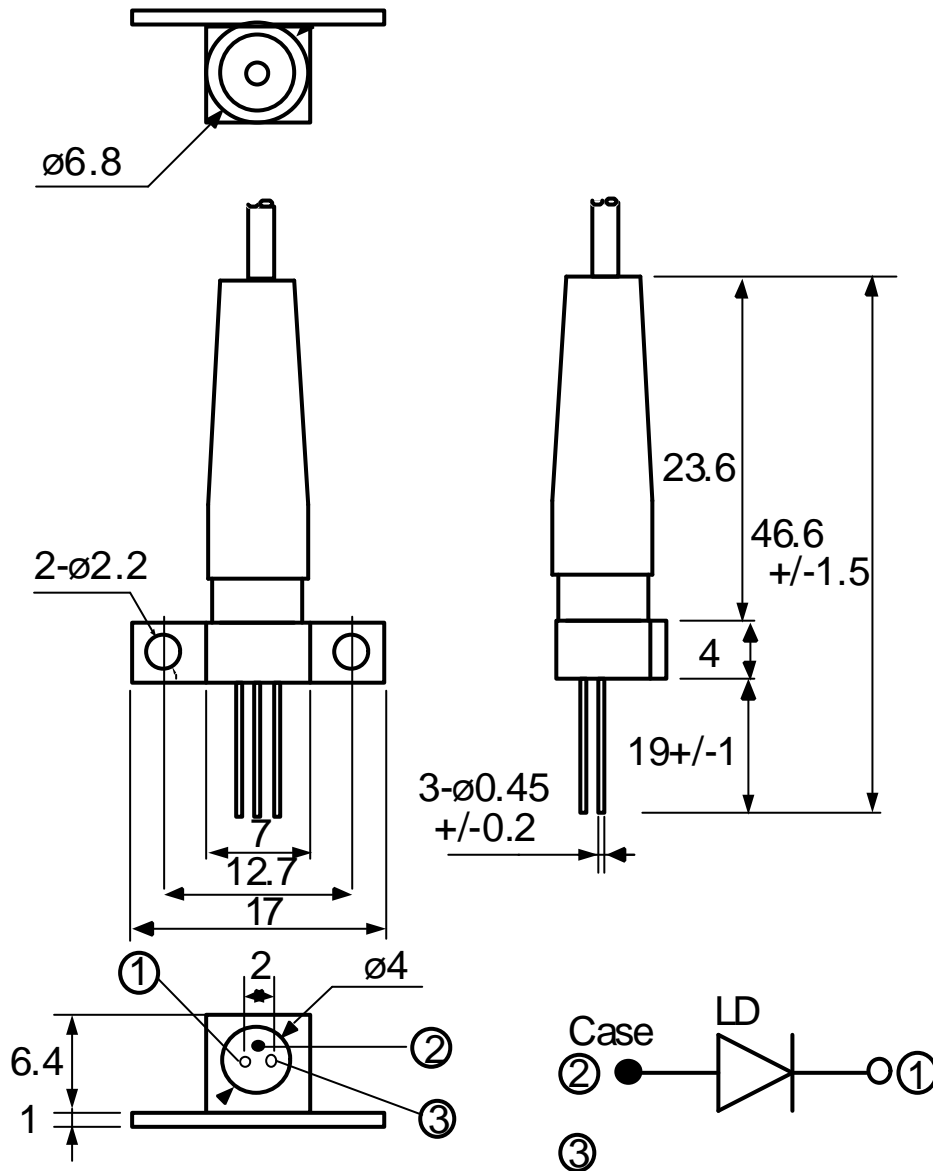
Parameter	Specifications	Unit
Type	MMF	---
Mode Field Diameter	50 ± 3	μm
Cladding Diameter	125 ± 3	μm
Jacket Diameter	900	μm
Length	1 (Min.)	m
Connector	FC/PC	---

**7.ORDERING INFORMATION****OL3 99 N-150 /P 20****8.ATTACHED DATA** (at 25°C)

(1) I<sub>f</sub>-P<sub>o</sub> graph (2) spectrum graph at P<sub>o</sub>=150mW (3) operating current (I<sub>op</sub>) at P<sub>o</sub>=150mW (4) Center wavelength (λ<sub>c</sub>) at P<sub>o</sub>=150mW (5) Spectral Width (σ) at P<sub>o</sub>=150mW (6) Threshold current (I<sub>th</sub>)

9.OUTLINE DRAWING

All dimensions in millimeters  
 Tolerances unless noted +/-0.5  
 Package No. 99(Unit: mm)



## 10. SAFETY INFORMATION ON THIS PRODUCT



<p><b>Warning</b></p> <p>Laser Beam</p>	<p>A laser beam is emitted from this laser diode during operation. The invisible or visible laser beam, directly or indirectly, may cause injury to the eye or loss of eyesight.</p> <p>Do not look directly into the laser beam.</p> <p>Avoid exposure to the laser beam, any reflected or collimated beam.</p>
<p><b>Caution</b></p> <p>GaAs Product</p>	<p>The product contains gallium arsenide, GaAs. GaAs vapor and powder are hazardous to human health if inhaled, ingested or swallowed.</p> <p>Do not destroy or burn the product.</p> <p>Do not crush or chemically dissolve the product.</p> <p>Do not put the product in the mouth.</p> <p>Observe related laws and company regulations when discarding this product. The product should be excluded from general industrial waste or household garbage.</p>
<p><b>Caution</b></p> <p>Optical Fiber</p>	<p>A glass-fiber is attached on the product. Handle with care.</p> <p>When the fiber is broken or damaged, handle carefully to avoid injury from the damaged part or fragments.</p>

All specifications described herein are subject to change without notice.

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