

OL395N-100-P20**1310nm±20nm 100mW Pulsed MQW Laser Diode Coaxial Module with SMF.****1. DESCRIPTION**

OL395N-100-P20 is a 1310nm Laser Diode in coaxial package with SMF.

2. FEATURES

- Fiber output: Po=100mW
- Pulsed MQW FP Laser
- Coaxial package module
- Single mode fiber (SMF)

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 _{th} | --- | --- | 20 | 50 | mA |
| Operation Current | I _{op} | Po=100mW | --- | 700 | 800 | mA |
| LD Forward Voltage | V _f | | --- | 2.0 | 3.0 | V |
| Center Wavelength | λ _c | | 1290 | 1310 | 1330 | nm |
| Spectral Width | σ | Po=100mW, RMS×1 | --- | 5 | 10 | nm |

5.ABSOLUTE MAXIMUM RATING

(Tc = 25°C, unless otherwise specified)

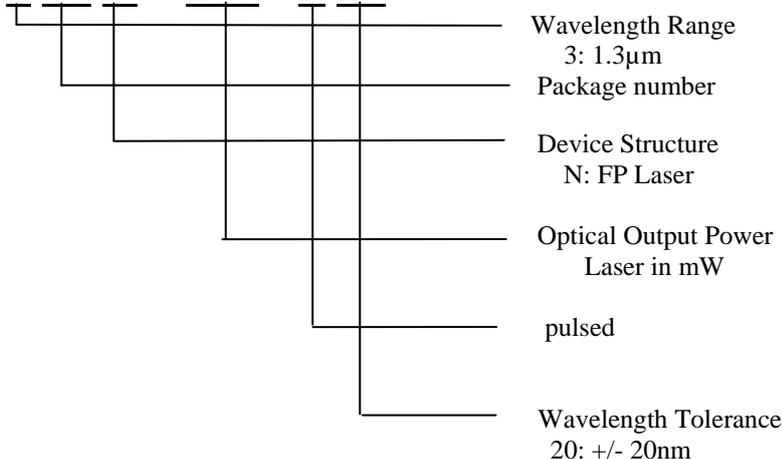
| Parameter | Symbol | Rating | Unit |
|-----------------------|--------|------------|------|
| Fiber Output Power | Po | 120* | mW |
| LD Reverse Voltage | VR(LD) | 2.0 | V |
| LD Forward Current | IF(LD) | 1000* | mA |
| Operating Temperature | Topr | -20 to +60 | °C |
| Storage Temperature | Tstg | -40 to +85 | °C |

Pulse width $\leq 10\mu\text{s}$, duty $\leq 1\%$

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

6. CONNECTOR AND FIBER SPECIFICATIONS

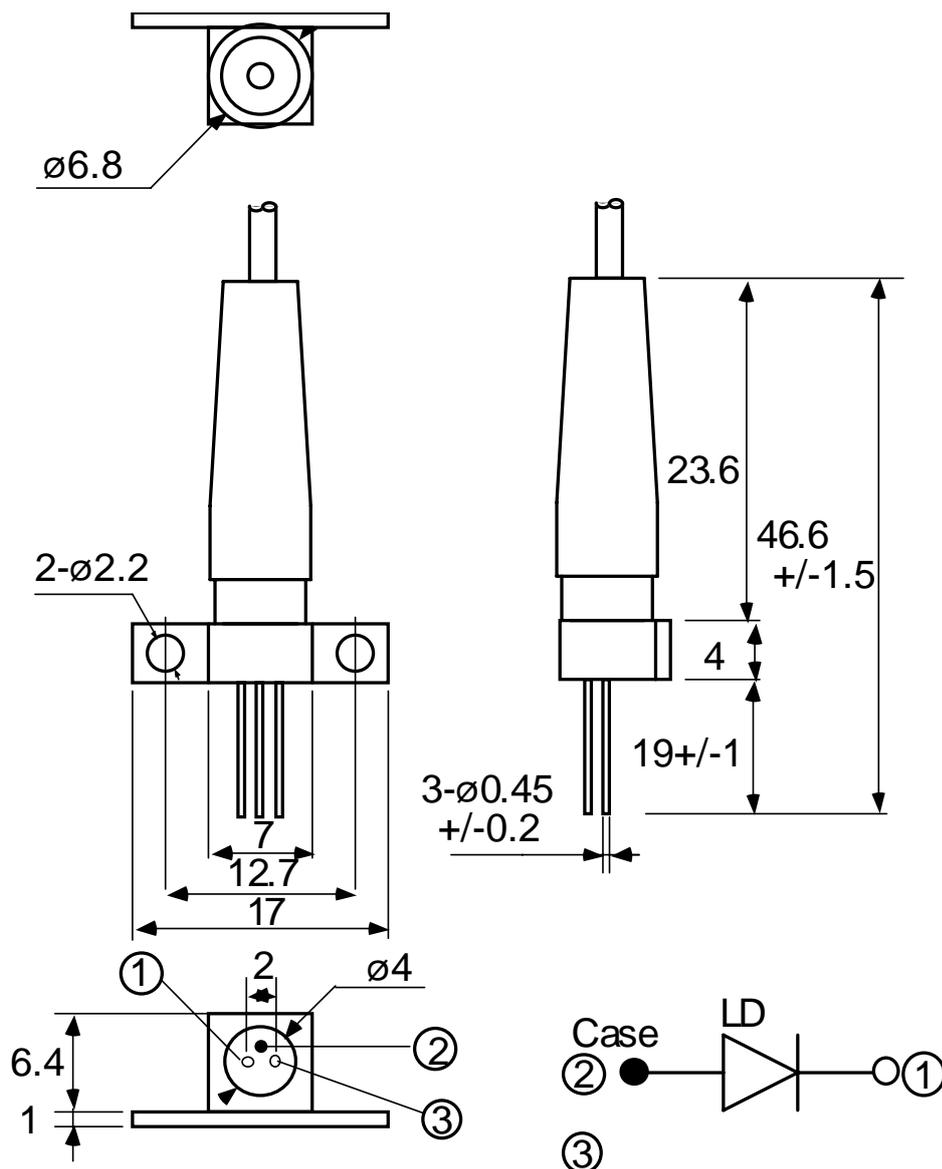
| Parameter | Specifications | Unit |
|---------------------|----------------|---------------|
| Type | SMF | --- |
| Mode Field Diameter | 10 \pm 1 | μm |
| Cladding Diameter | 125 \pm 2 | μm |
| Jacket Diameter | 900 | μm |
| Length | 1 (Min.) | m |
| Connector | FC/SPC | --- |

7.ORDERING INFORMATION**OL3 95 N – 100 - P 20****8.ATTACHED DATA** (at 25°C)

(1) If-Po graph (2) spectrum graph at Po=100mW (3) operating current (Iop) at Po=100mW (4) Center wavelength (λ_c) at Po=100mW (5) Spectral Width (σ) at Po=100mW (6) Threshold current (Ith)

9.OUTLINE DRAWING

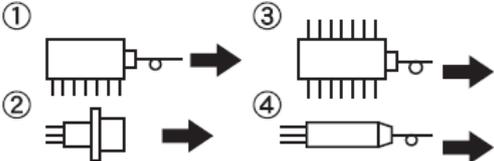
All dimensions in millimeters
 Tolerances unless noted +/-0.5
 Package No. 95(Unit: mm)



10. SAFETY INFORMATION ON THIS PRODUCT



PEAK OUTPUT POWER 500mW
 WAVELENGTH 900~1700nm
 CLASS 3B LASER PRODUCT



AVOID EXPOSURE
 Laser invisible radiation is emitted from the aperture.

Complies with CFR1040.10 and IEC60825-1

| | |
|--|--|
| <p>Warning</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>Caution</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>Caution</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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