

OL595N-40/P20**1550nm \pm 20nm 40mW Pulsed MQW Laser Diode Coaxial Module with SMF.****1. DESCRIPTION**

OL595N-40/P20 is a 1550nm Laser Diode in coaxial package with SMF.

2. FEATURES

- Fiber output: Po=40mW
- 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, 10 μ s pulse width and 1% duty)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Threshold Current	I _{th}	---	---	25	60	mA
Operation Current	I _{op}	Po=40mW	---	400	700	mA
LD Forward Voltage	V _f		---	2.0	3.0	V
Center Wavelength	λ_c		1530	1550	1570	nm
Spectral Width	σ	Po=40mW, RMS \times 1	---	5	10	nm

5.ABSOLUTE MAXIMUM RATING

(Tc = 25°C, unless otherwise specified)

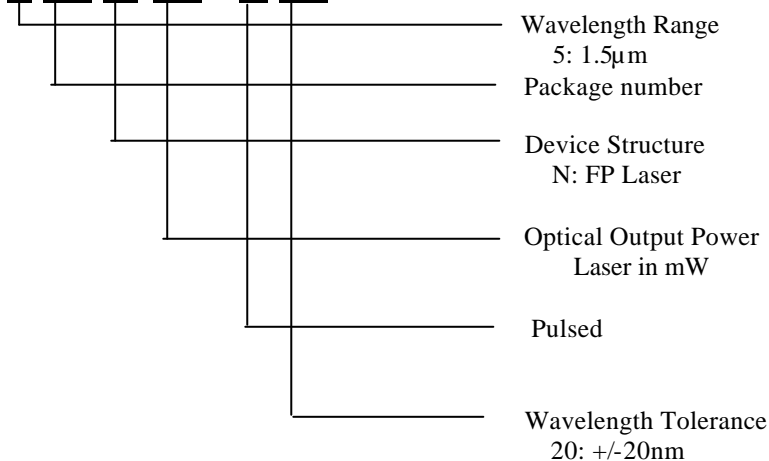
Parameter	Symbol	Rating	Unit
Fiber Output Power	P _o	48*	mW
LD Reverse Voltage	V _R (LD)	2.0	V
LD Forward Current	I _F (LD)	800*	mA
Operating Temperature	T _{opr}	-20 to +60	°C
Storage Temperature	T _{stg}	-40 to +85	°C

Pulse width ≤ 10μs , duty ≤ 1%

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

6. CONNECTOR AND FIBER SPECIFICATIONS

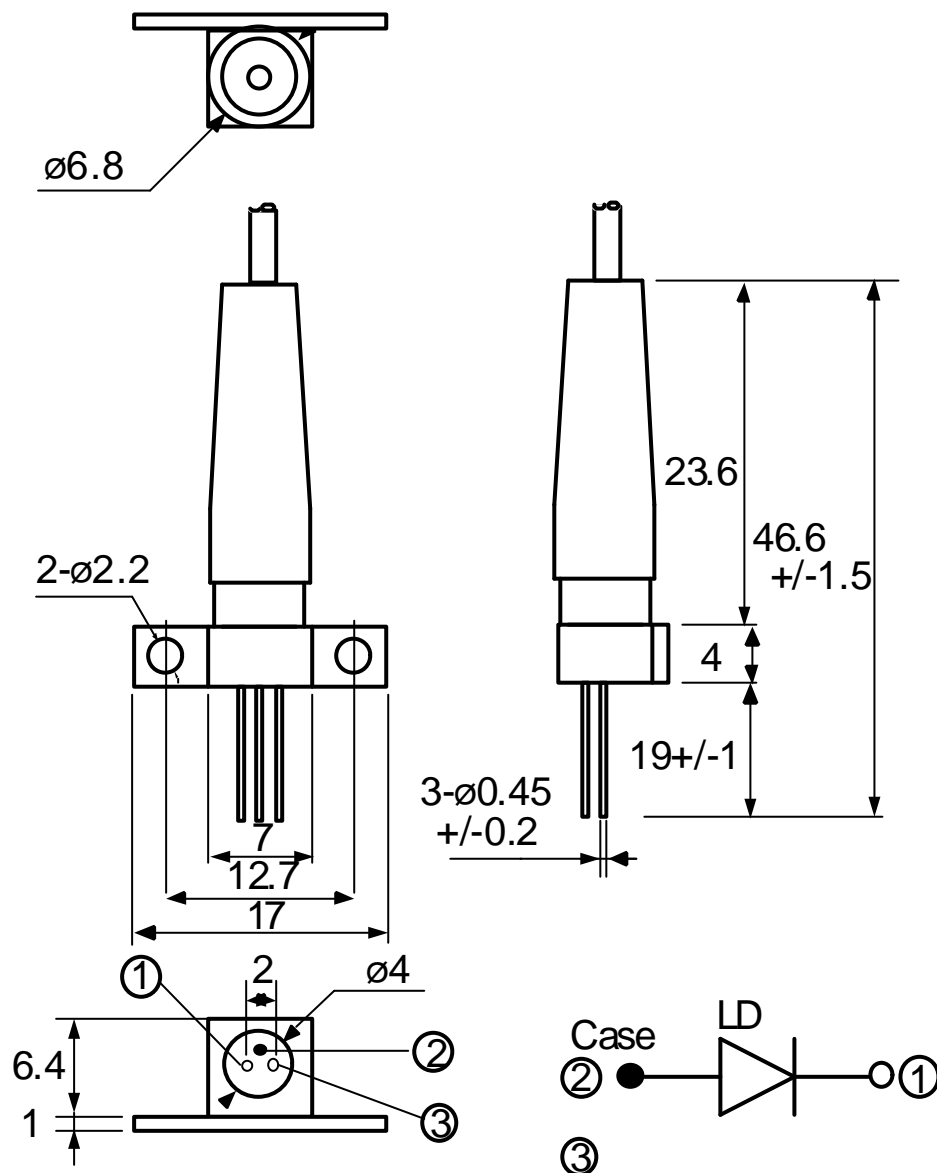
Parameter	Specifications	Unit
Type	SMF	---
Mode Field Diameter	10±1	μm
Cladding Diameter	125±2	μm
Jacket Diameter	900	μm
Length	1 (Min.)	m
Connector	FC/SPC	---

7.ORDERING INFORMATION**OL 5 95 N-40 / P 20****8.ATTACHED DATA** (at 25°C)

(1) If-Po graph (2) spectrum graph at Po=40mW (3) operating current (I_{op}) at Po=40mW (4) Center wavelength (λ_c) at Po=40mW (5) Spectral Width (σ) at Po=40mW (6) Threshold current (I_{th})

9.OUTLINE DRAWING

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



10. SAFETY INFORMATION ON THIS PRODUCT



Warning Laser Beam	<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>
Caution GaAs Product	<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>
Caution Optical Fiber	<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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