

Optical Components OL495N-80-P20-W90

Rev.2 [Mar. 2009]

1490n m Pulsed MQW Laser Diode Coaxial Module with SMF.

1.DESCRIPTION

OL495N-80-P20-W90 is a 1490nm Laser Diode in coaxial package with SMF.

2. FEATURES

- · Fiber output: Pf=80mW
- · Pulsed MQW FP Laser
- · Coaxial package module
- · Single mode fiber (SMF)

3. APPLICATION

·OTDRs

4.OPTICAL AND ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Threshold Current	Ith			25	60	mA
Operation Current	Iop			500	640	mA
LD Forward Voltage	Vf	Pf=80mW		2.0	3.0	V
Center Wavelength	λc		1470	1490	1510	nm
Spectral Width	σ	Pf=80mW, RMS×1		5	10	nm

5.ABSOLUTE MAXIMUM RATING

(T_c= 25°C, unless otherwise specified)

Parameter	Symbol	Rating	Unit
Fiber Output Power	Pf	96*	mW
LD Reverse Voltage	Vrl	2.0	V
LD Forward Current	Ifl	840*	mA
Operating Temperature	Тор	-20 to +60	°C
Storage Temperature	Tstg	-40 to +85	°C

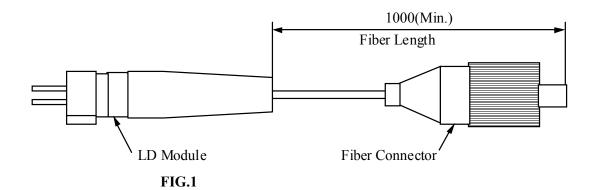
^{*}Pulse width≤10µs, duty≤ 1%.

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

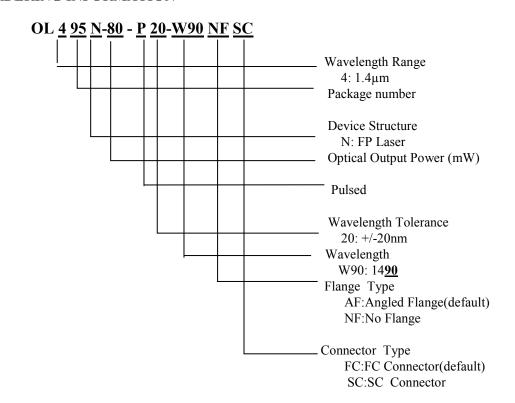
[·]Optical measuring instruments

6.	CONNEC'	TOR AND	FIBER	SPECIFIC	ATIONS

Parameter	Specifications	Unit
Type	SMF	
Mode Field Diameter	10±1	μm
Cladding Diameter	125±2	μm
Jacket Diameter	900	μm
Fiber Length	1000 (Min.) See Fig.1	mm



7.ORDERING INFORMATION

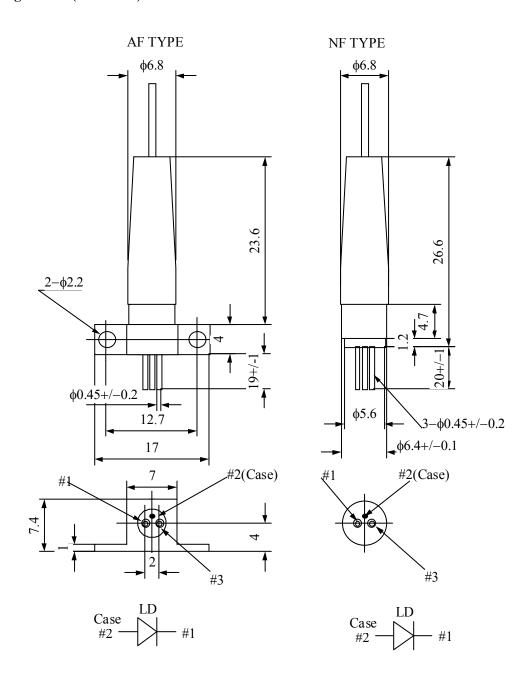


8.ATTACHED DATA (at 25°C)

- (1) If-Pf graph (2) spectrum graph at Pf=80mW (3) Threshold current (Ith)
- (4) operating current (Iop) at Pf=80mW (5) Center wavelength (λc) at Pf=80mW
- (6) Spectral Width (σ) at Pf=80mW

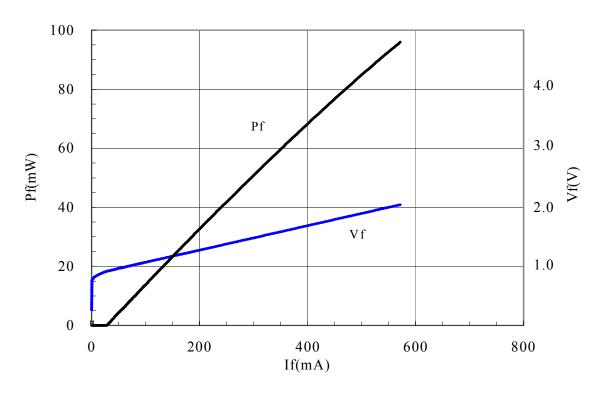
9.OUTLINE DRAWING

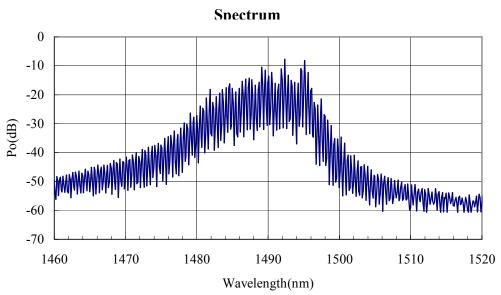
All dimensions in millimeters Tolerances unless noted +/-0.5 Package No. 95(Unit: mm)



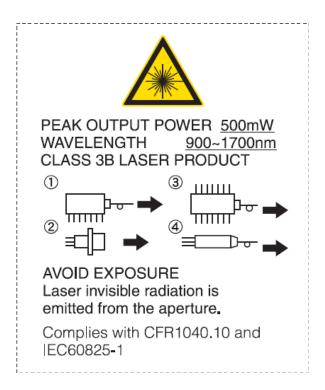
10.Typical Characteristics

Electrical and Ontical Characteristics





11. SAFETY INFORMATION ON THIS PRODUCT



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

All specifications described herein are subject to change without notice.

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