

OL6492N-A, OL692N-A**Preliminary**

1625 ± 10nm, 1mW MQW Laser Diode Uncooled Coax Module with SMF.

1. DESCRIPTION

OL6492N-A is a 1625nm MQW FP Laser Diode in a PCB Mountable coaxial package with single mode fiber. OL692N-A is a 1625nm MQW FP Laser Diode in a panel Mountable coaxial package with single mode fiber.

2. FEATURES

- Fiber output : Pf=1mW
- FP Laser
- Uncooled PCB or panel mountable coaxial module
- Single mode fiber(SMF)

3. APPLICATION

- OSC

4.OPTICAL AND ELECTRICAL CHARACTERISTICS

(Tc= 25°C)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Threshold Current	I _{th}	---	---	---	40	mA
Fiber Output Power	Pf	If=I _{th} +40mA	1	---	---	mW
Forward Voltage	V _f	Pf=1mW	---	1.1	1.5	V
Peak Wavelength	λ _c		1615	---	1635	nm
Spectral Width*	σ		---	---	10	nm
Monitor Current	I _μ		50	---	---	μA
PD Dark Current	I _{dark}	V _r (PD)=5V	---	---	20	nA
Rise Time	τ _r	I _{bias} =I _{th} , Pf=1mW,10-90%	---	---	0.5	ns
Fall Time	τ _f		---	---	0.5	ns

* Spectral Width : RMS ×1

5. ABSOLUTE MAXIMUM RATING

(Tc= 25°C, unless otherwise specified)

Parameter	Symbol	Rating	Unit
Fiber Output Power	Pf	2	mW
LD Forward Current	If(LD)	150	mA
LD Reverse Voltage	VR(LD)	2.0	V
PD Reverse Voltage	VR(PD)	15	V
Operating Temperature	Tc	0 to +65	°C
Storage Temperature	Tstg	-40 to +85	°C
Soldering	Tsld	260(10sec)	°C

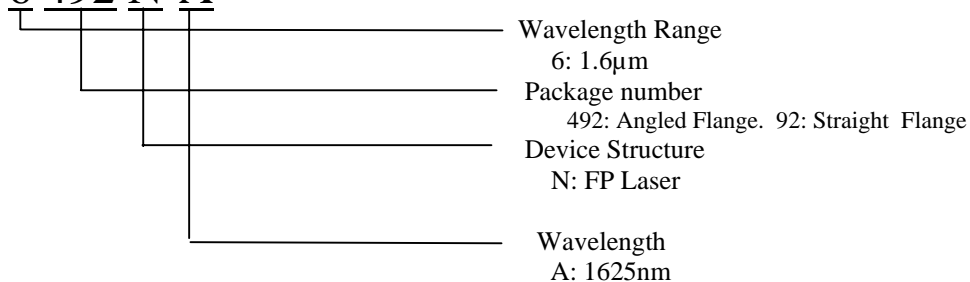
Exceeding these ratings may lead to immediate destruction or permanent deterioration of the device.

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 6 492 N-A



8.Attached Data

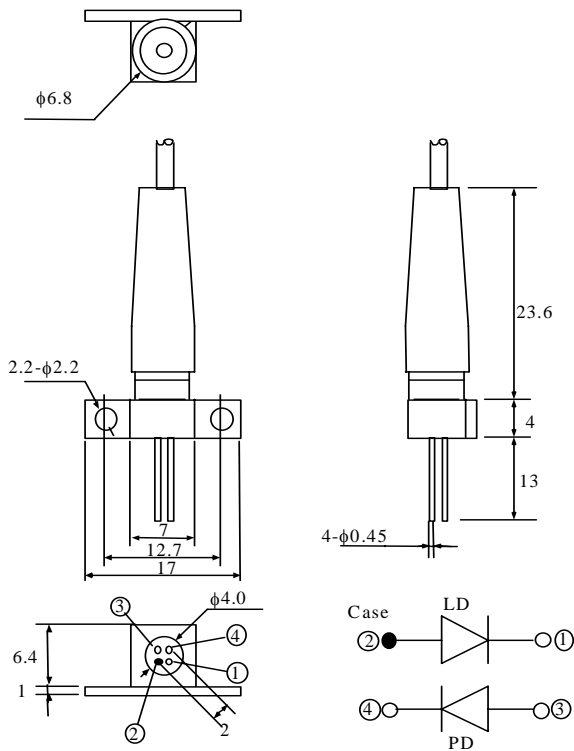
- a. Threshold current(I_{th}) at T_c =25/0/65°C
- b. Operating current(I_{op}) at P_f=1mW, T_c=25/0/65°C
- c. Monitor current(I_m) at P_f=1mW, T_c=25/0/65°C
- d. Peak Wavelength(λ_p) at P_f=1mW, T_c=25/0/65°C
- e. Spectral width at T_c=25/0/65°C
- f. Po-If,Im-If Graph at T_c=25/0/65°C
- g. Spectral Graph at T_c=25°C

9.Outline Drawing

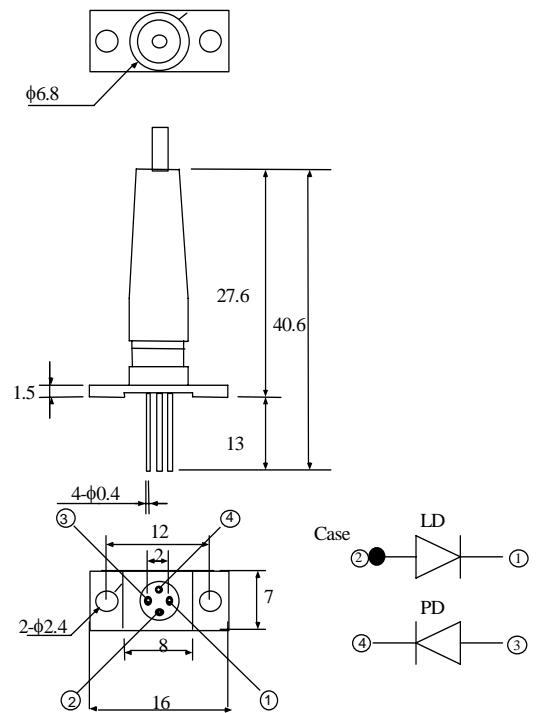
All dimensions in millimeters

Tolerances unless noted +/-0.5

(Unit: mm)



Package No.492(Angled Flange)

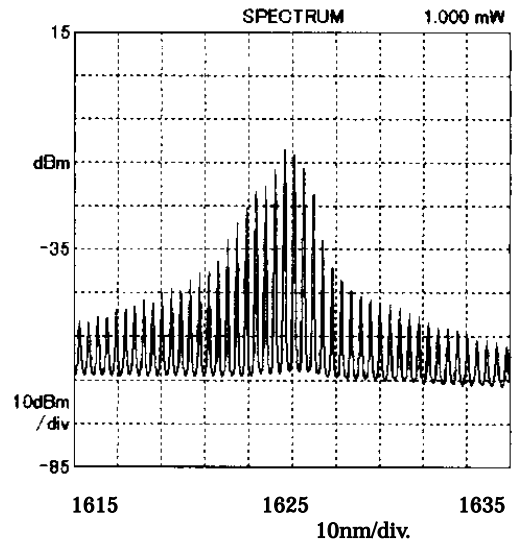
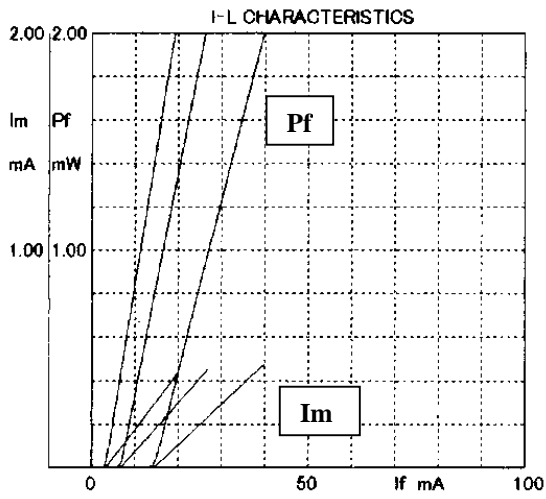


PackageNo.92(Straight Flange)

10. Typical characteristics

Test Sample:OL6492N-A

OKI OPTO ELECTRONIC COMPONENT TEST DATA



For LD**SAFETY INFORMATION ON THIS PRODUCT**

<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>

OKI Electronics Components

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