

OKI electronic components

OL392N-2, OL397N-2 OL3942N-2, OL3497N-2

1.3 μ m 2 mW Coaxial Module

GENERAL DESCRIPTION

The OL392N-2, OL397N-2, OL3492N-2, and OL3497N-2 are 1.3 μ m MQW InGaAsP/InP laser-diode coaxial modules with 2 mW output, pigtailed with single-mode fibers. These modules are optimal light sources for optical subscriber loops and LAN systems.

FEATURES

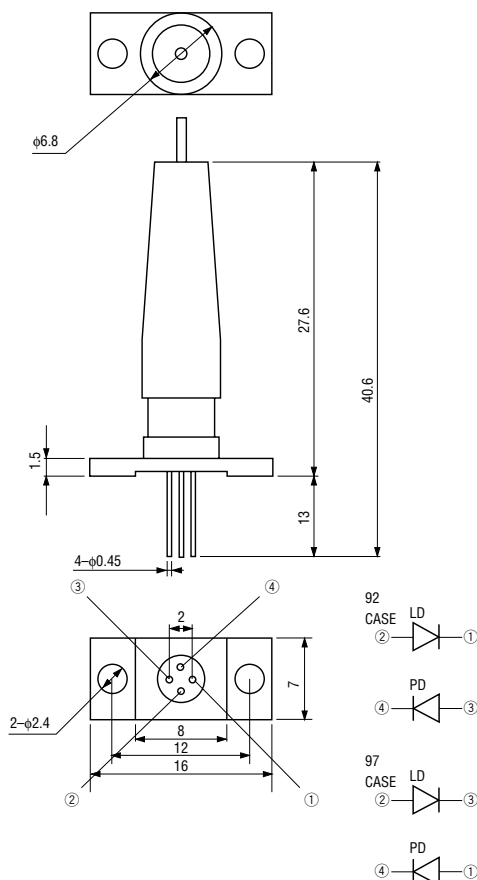
- Single-mode fiber output: $P_f=2$ mW
- Wide operating temperature range
- Includes monitor photodiode for power control
- Multi-quantum-well (MQW) structure

APPLICATIONS

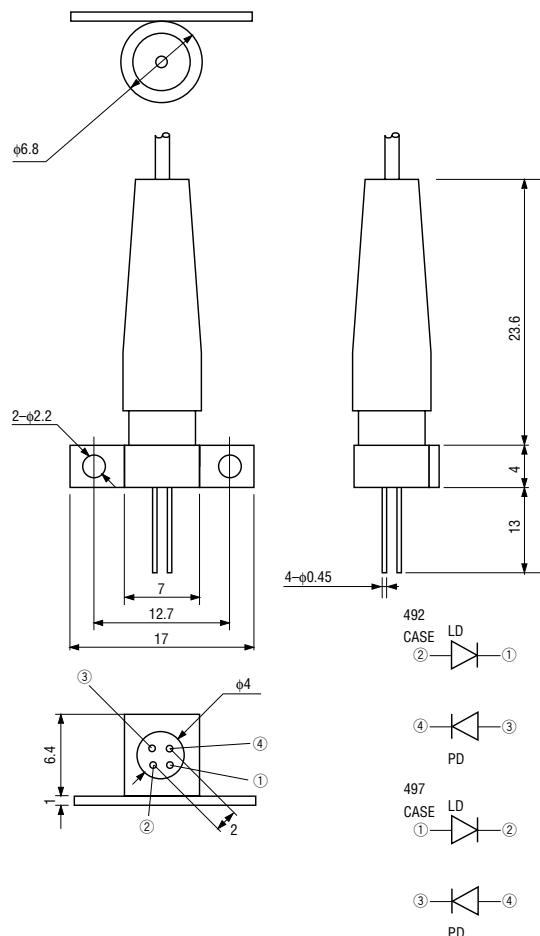
- Subscriber loops
- LAN systems

PACKAGE DIMENSIONS (Unit: mm)

• OL392N-2, OL397N-2



• OL3492N-2, OL3497N-2



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Test Conditions	Ratings	Unit
Fiber Output	Pf	Ta=25°C	3.0	mW
LD Reverse Voltage	V _R (LD)		2	V
PD Reverse Voltage	V _R (PD)		20	V
PD Forward Current	I _F (PD)		10	mA
Operating Temperature	T _{opr}	—	−40 to +85	°C
Storage Temperature	T _{stg}	—	−40 to +85	°C

OPTICAL AND ELECTRICAL CHARACTERISTICS

(Ta=25°C)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Threshold Current	I _{th}	—	—	10	25	mA
Fiber Output Power	Pf	I _F =I _{th} +35 mA	2	—	—	mW
Center Wavelength	λ _c	Pf=2 mW	1280	1310	1340	nm
Spectral Width	σ	Pf=2 mW, RMS	—	—	5	nm
Rise Time	t _r	I _{bias} =I _{th}	—	—	0.5	ns
Fall Time	t _f	Pf=2 mW, 10% to 90%	—	—	0.5	ns
Forward Voltage	V _F	Pf=2 mW	—	1.1	1.5	V
PD Dark Current	I _{DARK}	V _F (PD)=5V	—	0.5	20	nA
Monitor Current	I _m	V _R (PD)=5 V, Pf=2 mW	75	300	—	μA