

OKI electronic components

OL592N-2, OL597N-2, OL5492N-2, OL5497N-2

1.55 μm 2 mW Coaxial Module

GENERAL DESCRIPTION

The OL592N-2, OL597N-2, OL5492N-2, and OL5497N-2 are 1.55 μm , MQW InGaAsP/InP laser-diode modules with a 2mW output, pigtailed with single mode fibers. These modules are optimal light sources for high-capacity long-haul optical transmission systems.

FEATURES

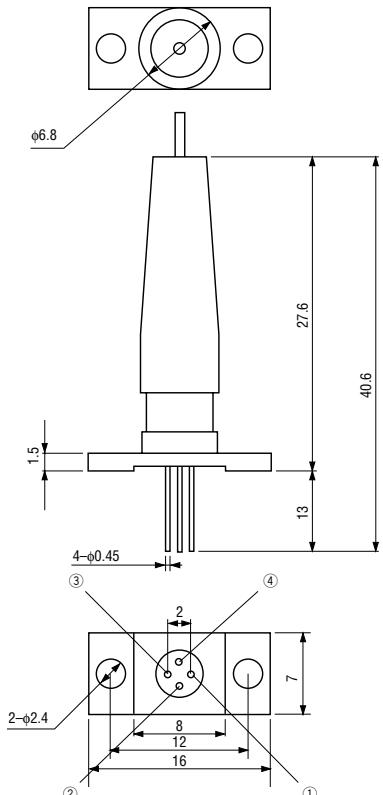
- Single-mode fiber output: Pf=2 mW
- Includes monitor photodiode for power control
- Wide operating temperature range
- Multi-quantum-well (MQW) structure

APPLICATIONS

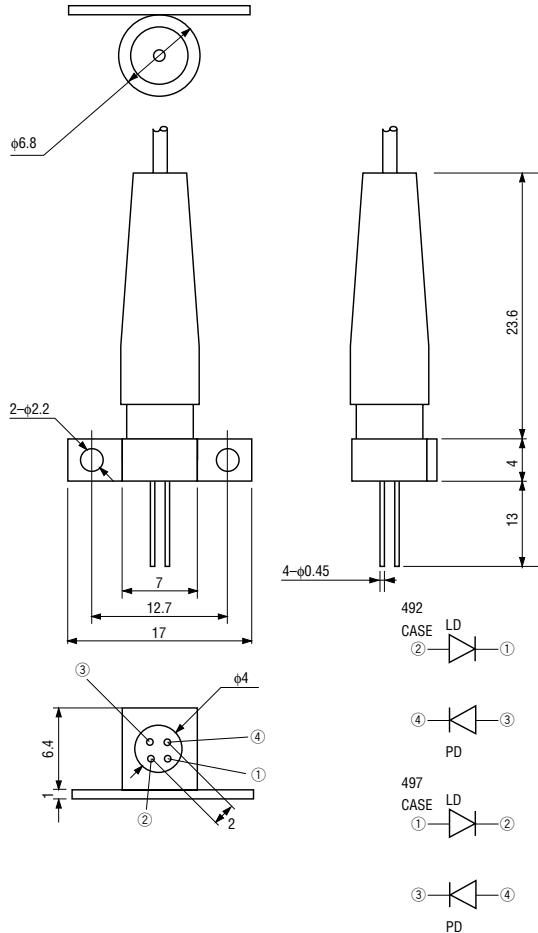
- Optical transmission systems
- Subscriber loops
- Optical measuring equipment

PACKAGE DIMENSIONS (Unit: mm)

• OL592N-2, OL597N-2



• OL5492N-2, OL5497N-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}	—	-20 to +65	°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	P _f	I _F =I _{th} +40 mA	2	—	—	mW
Center Wavelength	λ _c	P _f =2 mW	1520	1550	1580	nm
Spectral Width	σ	P _f =2 mW, RMS	—	—	5	nm
Rise Time	t _r	I _{bias} =I _{th}	—	—	0.5	ns
Fall Time	t _f	P _f =2 mW, 10% to 90%	—	—	0.5	ns
Forward Voltage	V _F	P _f =2 mW	—	1.1	1.5	V
PD Dark Current	I _{DARK}	V _R (PD)=5 V	—	0.5	20	nA
Monitor Current	I _m	V _R (PD)=5 V, P _f =2 mW	75	300	—	μA