

OL592L-A,OL592L-B,OL692L-A**2mW Coaxial DFB Laser Diode Modules with Single Mode Fiber, Built in Isolator.****1. DESCRIPTION**

OL592L-A,OL592L-B,OL692L-A are laser diode coaxial modules with optical isolator and single mode fiber pigtails.

2. FEATURES

- Single mode fiber output : Po=2mW
- Includes monitor PD for power control
- Multi-quantum-well (MQW) DFB structure
- Side mode suppression ratio : 30dB
- Wide operation temperature range
- Built-in Isolator

3. APPLICATION

- WDM supervisory channel in SDH system with optical in-line amplifier

4.OPTICAL AND ELECTRICAL CHARACTERISTICS

(Ta= 25°C, unless otherwise specified)

Parameter	Symbol	Test Conditions		Min.	Typ.	Max.	Unit
Fiber Output Power	Po	CW		2	---	---	mW
Threshold Current	Ith	CW		---	---	40	mA
Operation current	Iop	Po=2mW, CW		---	---	120	mA
Forward Voltage	Vf	Po=2mW, CW		---	1.1	1.5	V
Peak Wavelength	λ_p	Po=2mW , CW	OL592L-A	1500	---	1520	nm
			OL592L-B	1510	---	1530	nm
			OL692L-A	1620	---	1640	nm
Side Mode Suppression Ratio	SMSR	Po=2mW, CW		30	---	---	dB
Rise Time	τ_r	Ibias = Ith		---	---	0.5	ns
Fall Time	τ_f	Po=2mW, 10-90%		---	---	0.5	ns
Photodiode Dark Current	ID	VR(PD)=5V		---	---	20	nA
Monitor Current	Im	Po=2mW,CW, VR(PD)=5V		50	---	---	μ A

5.ABSOLUTE MAXIMUM RATING

(Ta = 25°C, unless otherwise specified)

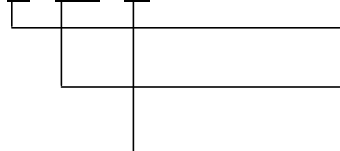
Parameter	Symbol	Rating	Unit
Fiber Output Power	Po	3	mW
LD Forward Current	IF(LD)	150	mA
Photodiode Forward Current	IF	10	mA
Photodiode Reverse Voltage	VR(PD)	20	V
Operating Temperature	Ta	0 to 65	°C
Storage Temperature	Tstg	-40 to 85	°C

6. CONNECTOR AND FIBER SPECIFICATIONS

Parameter	Specifications	Unit
Type	SM	---
Mode Field Diameter	9+/-1	μm
Cladding Diameter	125+/-2	μm
Jacket Diameter	900	μm
Length	1 (Min.)	m
Connector	FC/SPC	---

7.ORDERING INFORMATION

OL 5 92 L - A



Wavelength

3: 1.3μm ,4: 1.48μm, 5: 1.5μm, 6: 1.6μm

Package Number

Device Structure

N: FP Laser L: DFB Laser

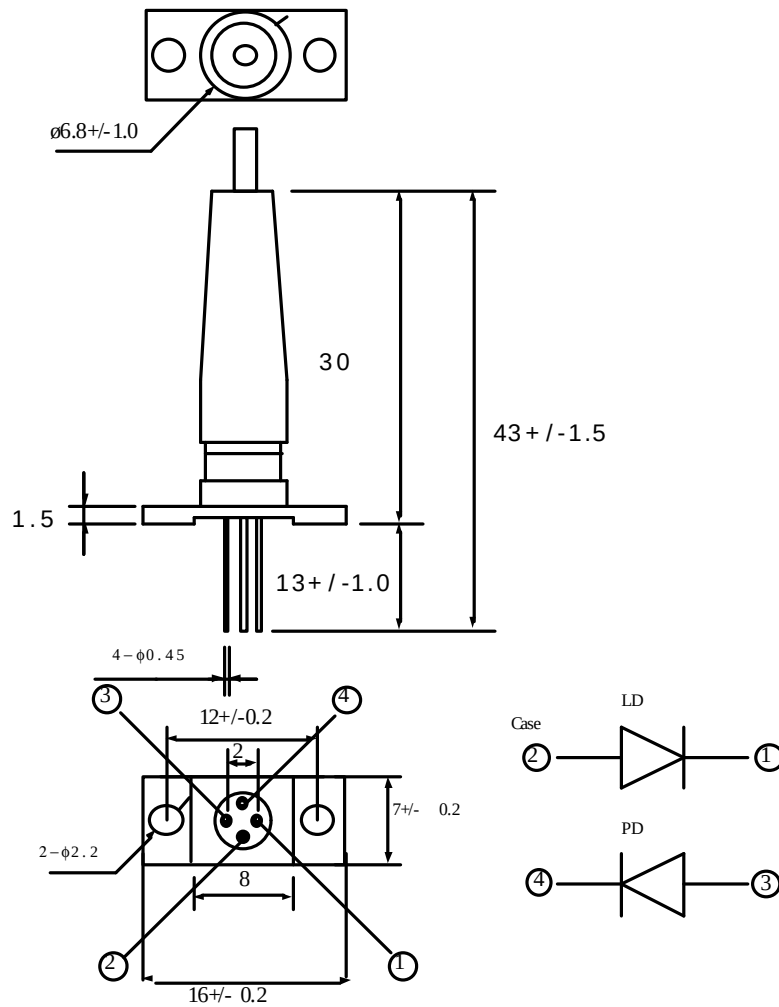
Peak Wavelength(Typ.)	Oki Part Number
1510nm	OL592L-A
1520nm	OL592L-B
1625nm	OL692L-A

8. OUTLINE DRAWING

All dimensions in millimeters

Tolerances unless noted ± 0.5

Package No. 92-2 (with Isolator)



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