OKI electronic components

OL395N-20/P20, OL395N-40/P20, OL395N-60/P20, OL395N-80/P20, OL395N-100/P20

1.3 μm High-Power Laser-Diode Coaxial Module

GENERAL DESCRIPTION

The OL395N-20/P20, OL395N-40/P20, OL395N-60/P20, OL395N-80/P20, and OL395N-100/P20 are extremely high-power 1.3 μm MQW laser-diode coaxial modules with single-mode fiber pigtails. The laser chips achieve a single-mode fiber output of over 20 mW. The modules are optimal light sources for optical measuring instruments and other systems that require high power.

FEATURES

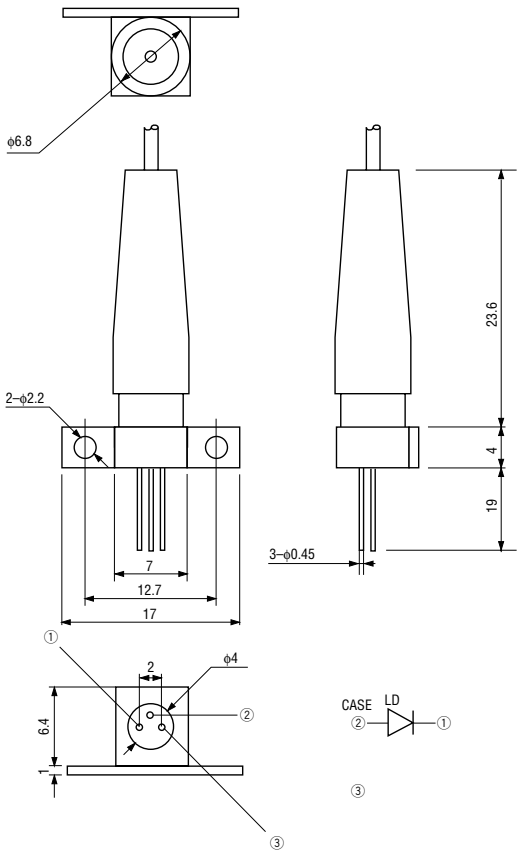
- High output power (Single-mode fiber output) : Pf=20 mW (Pulse) for OL395N-20/P20
  : Pf=40 mW (Pulse) for OL395N-40/P20
  : Pf=60 mW (Pulse) for OL395N-60/P20
  : Pf=80 mW (Pulse) for OL395N-80/P20
  : Pf=100 mW (Pulse) for OL395N-100/P20
- Single-mode fiber
- Multi-quantum-well (MQW) structure

APPLICATIONS

- Optical measuring instruments
- OTDRs

PACKAGE DIMENSIONS (Unit: mm)

- **OL395N-20/P20, OL395N-40/P20, OL395N-60/P20, OL395N-80/P20, OL395N-100/P20**



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Test Conditions	Ratings		Unit
Fiber Output Power	Pf	Ta=25°C	OL395N-20/P20	30	mW
			OL395N-40/P20	48	
			OL395N-60/P20	70	
			OL395N-80/P20	90	
			OL395N-100/P20	110	
LD Reverse Voltage	V_R (LD)		2		V
Operating Temperature	T_{opr}	—	–20 to +60		°C
Storage Temperature	T_{stg}	—	–40 to +85		°C

OPTICAL AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Threshold Current	Ith	—	—	40	70	mA
Center Wavelength	λc	—	1290	1310	1330	nm
Spectral Width	σ	RMS	—	—	10	nm

Optical Output Power (Pf)

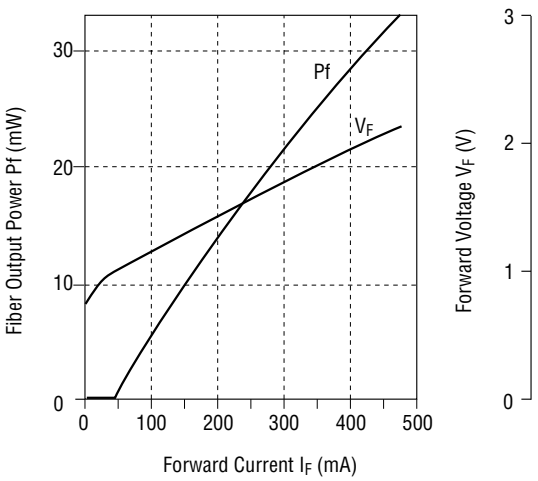
Model	Test Conditions	Min.	Typ.	Max.	Unit
OL395N-20/P20	I_F=400 mA (Pulse*)	20	—	—	mW
OL395N-40/P20	I_F=600 mA (Pulse*)	40	—	—	mW
OL395N-60/P20	I_F=800 mA (Pulse*)	60	—	—	mW
OL395N-80/P20	I_F=800 mA (Pulse*)	80	—	—	mW
OL395N-100/P20	I_F=800 mA (Pulse*)	100	—	—	mW

*Pulse Condition : Width 10 μs, duty ratio : 1%

TYPICAL CHARACTERISTICS

- **OL395N-20/P20**

Fiber Output Power vs. Forward Current



- **OL395N-100/P20**

Fiber Output Power vs. Forward Current

