OKI Electronics Components

Rev.2. [Sep. 2001]

OL6201N-5-A10

5mW Laser Diode DIL Modules with Single Mode Fiber,Built in Cooler,.

1. DESCRIPTION

OL6201N-5-A10 is a Laser Diode in DIL package with single mode fiber.

2. FEATURES

· Single mode fiber output : Po=5mW
· Includes monitor PD for power control
· Multi-quantum-well (MQW) FP structure
· Thermo-electric cooler

3. APPLICATION

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

4.OPTICAL AND ELECTRICAL CHARACTERISTICS

(T_{LD}= 25°C, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Threshold Current	Ith	CW	---	---	30	mA
Operation current	Iop	Po=5mW, CW	---	---	115	mA
Forward Voltage	Vf	Po=5mW, CW	---	---	3	V
Center Wavelength	λc	Po=5mW, CW	1615	1625	1635	nm
Spectral width	Δλ	Po=5mW, CW, RMS, σ	---	---	5	nm
Rise Time	τr	Ibias = Ith Po=5mW,10-90%	---	---	0.5	ns
Fall Time	τf		---	---	0.5	ns
Photodiode Dark Current	I_D	Vr(PD)=5V	---	---	1	μA
Monitor Current	Im	Po=5mW,CW, Vr(PD)=5V	100	---	---	μA
PD Capacitance	Ct	V_R(PD)=5V,f=1MHz	---	15	---	pF
TEC Capacity	ΔT	Po=5mW	40	---	---	°C
TEC Current	Ic	ΔT=40°C,Po=5mW	---	---	1.0	A
TEC Voltage	Vc	ΔT=40°C,Po=5mW	---	---	2.2	V
Thermistor Resistance	Rth	Tthm = 25 °C	9.5	10.0	10.5	kΩ

5.ABSOLUTE MAXIMUM RATING

(Tc = 25°C, unless otherwise specified)

Parameter	Symbol	Rating	Unit
Fiber Output Power	Po	6	mW
LD Reverse Voltage	V_R	2	V
Photodiode Forward Current	I_F	10	mA
Photodiode Reverse Voltage	V_R(PD)	20	V
Cooler Curent	Ic	1.2	A
Operating Case	Tc	-20 to 65	°C
Storage Temperature	Tstg	-40 to 85	°C
Lead Soldering	-	260 (10sec)	°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	---

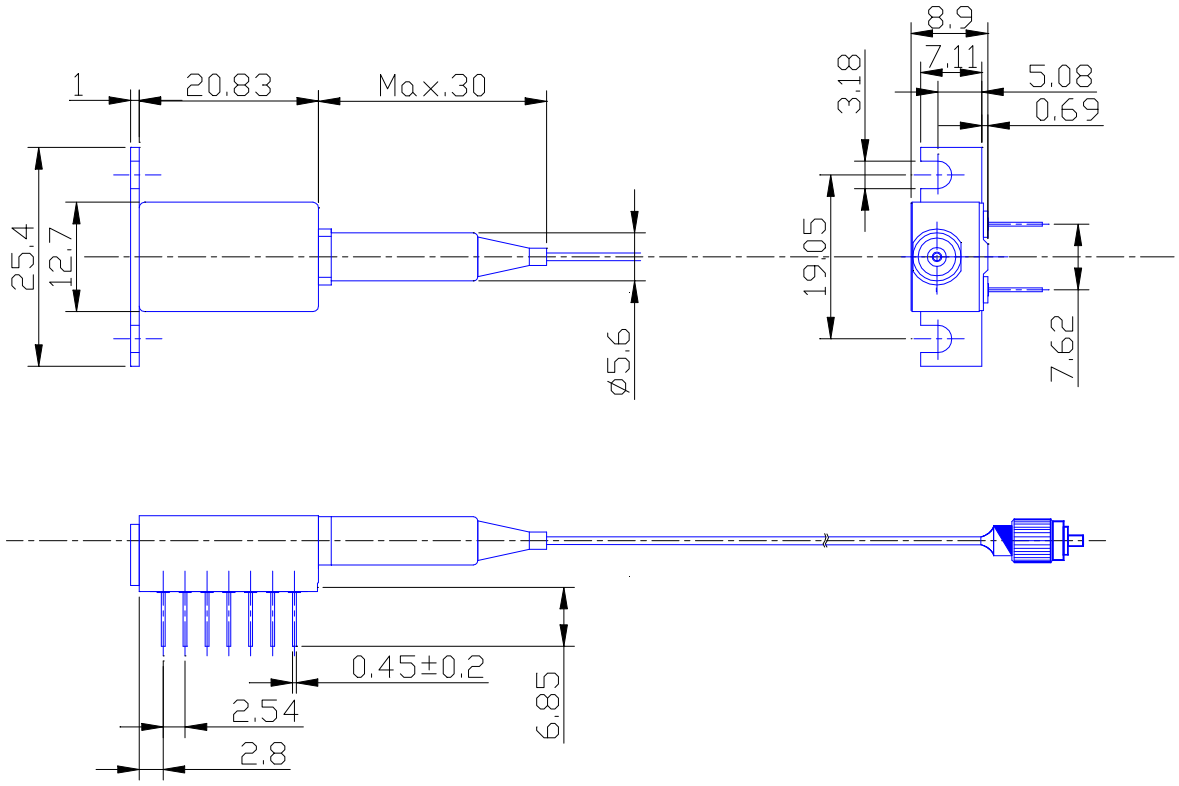
7.ORDERING INFORMATION

OL 6 201 N – 5 – A 10

- Wavelength
  3: 1.3µm ,4: 1.48µm, 5: 1.5µm, 6: 1.6µm
- Package Number
- Device Structure
  N: FP Laser L: DFB Laser
- Optical Output Power
  Laser in mW

8.OUTLINE DRAWING

All dimensions in millimeters
Tolerances unless noted +/-0.5
Package No. 201(Unit: mm)



TERMINAL CONNECTION
(BOTTOM VIEW)