

**OL3300N-05****1310 nm/0.5mW SMT Laser Diode Module with Single Mode Fiber****GENERAL DESCRIPTION**

The OL3300N-05 surface mount type LD module is a 1.3  $\mu\text{m}$ , InGaAsP/InP laser diode coupled to a single mode fiber with a pigtail. It is designed for STM-1 L-1.1 (OC-3 LR-1).

**ABSOLUTE MAXIMUM RATINGS**

(Ta = 25°C, unless otherwise noted)

Parameter	Symbol	Rating	Unit
Fiber Output Power	PF	2	mW
Laser Diode Reverse Voltage	VR (LD)	2	V
Photo Diode Forward Current	IF	10	mA
Photo Diode Forward Voltage	VR (PD)	15	V
Operating Temperature	Ta	-40 to +85	°C
Storage Temperature	Tstg	-40 to +85	°C
Lead Soldering Temperature (10 sec)	Tsid	260	°C

**OPTICAL AND ELECTRICAL CHARACTERISTICS**

(Ta = -40 to 85°C, unless otherwise specified)

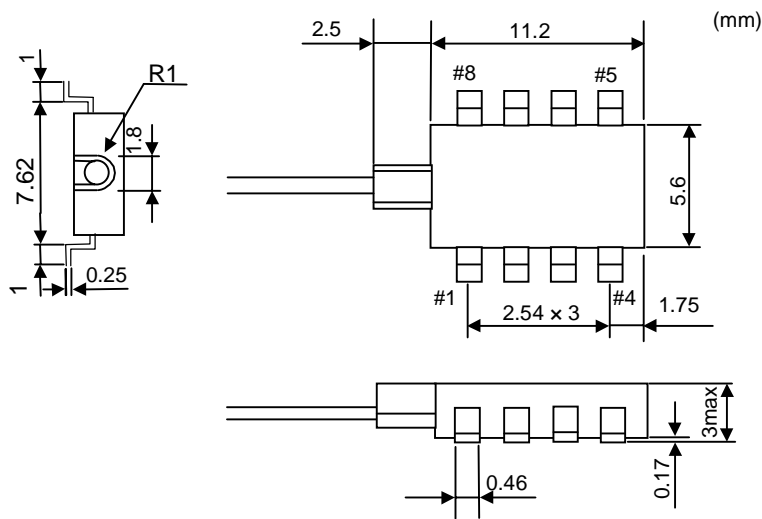
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Fiber Output Power	PF	CW	0.5	—	—	mW
Threshold Current	I <sub>th</sub>	—	—	—	40	mA
Center Wavelength	$\lambda_c$	Pf = 0.5 mW, RMS Ta = 0 to 85°C	1270	—	1360	nm
Spectral Width	$\sigma$	Pf = 0.5 mW, RMS ( $\sigma$ )	—	—	7.7	nm
LD Forward Voltage	V <sub>F</sub>	Pf = 0.5 mW	—	—	1.5	V
Rise and Fall Time	tr, tf	10 to 90%	—	—	0.5	ns
Monitor Current	I <sub>m</sub>	Pf = 0.5 mW (RT/SOL)	300	—	1000	$\mu\text{A}$
Tracking Error	Er	I <sub>m</sub> = const. @ Pf = 0.5 mW (25°C)	—	—	1.5	dB

**CONNECTOR AND FIBER SPECIFICATIONS**

Parameter	Specifications	Unit
Type	SM	—
Mode Field Diameter	9 ±1	μm
Code Diameter	0.9	mm
Bending Radius	20 (min)	mm
Length	Options	—
Connector	FC, SC, MUJ, etc.	—
Color	Yellow	—

**OUTLINE DRAWING**

All dimensions in millimeters  
 Package No. (Unit: mm)



**PIN DESCRIPTIONS**

No.	FUNCTION
1	NC
2	CASE GROUND
3	NC
4	PD CATHODE
5	PD ANODE
6	LD CATHODE
7	LD ANODE
8	CASE GROUND

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