OKI Electronic Components **OL3300N-02**

1310 nm/0.2mW SMT Laser Diode Module with Single Mode Fiber

GENERAL DESCRIPTION

The OL3300N-02 surface mount type LD module is a 1.3 μ 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	Та	-40 to +85	°C	
Storage Temperature	Tstg	-40 to +85	°C	
Lead Soldering Temperature (10 sec)	Tsid	260	°C	

OPTICAL AND ELECTRICAL CHARACTERISTICS

	$(Ta = -40 \text{ to } 85^{\circ}C, \text{ unless otherwise specified})$					specified)
Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Fiber Output Power	PF	CW	0.2	_	_	mW
Threshold Current	lth	—	_	_	40	mA
Center Wavelength	λς	Pf = 1 mW, RMS Ta =0 to 85°C	1270	_	1360	nm
Spectral Width	σ	Pf = 0.2 mW, RMS (σ)	_	_	7.7	nm
LD Forward Voltage	VF	Pf = 0.2 mW	_	_	1.5	V
Rise and Fall Time	tr, tf	10 to 90%	_	—	0.5	ns
Monitor Current	Im	Pf = 0.2 mW(RT/SOL)	300	_	1000	μΑ
Tracking Error	Er	lm = const. @ Pf = 0.2 mW (25°C)	_	_	1.5	dB

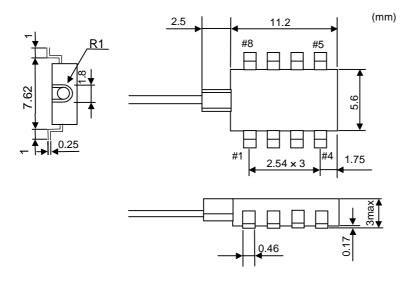
OL3300N-02

CONNECTOR AND FIBER SPECIFICATIONS

Parameter	Specifications	Unit
Туре	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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