FEDF3300W-01 OKI Semiconductor OL3300W

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1310 nm/1 mW SMT Laser Diode Module with Single Mode Fiber

GENERAL DESCRIPTION

The OL3300W 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 oth	erwise noted)
Parameter	Symbol	Rating	Unit
Fiber Output Power	PF	7	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	to 85°C,	unless ot	herwise s	specified)
Parameter	Symbol	Test Conditions	Min.	Тур.	Max.	Unit
Fiber Output Power	PF	CW	1		_	mW
Threshold Current	lth	—	_	_	40	mA
Center Wavelength	λς	Pf = 1 mW, RMS Ta = 0 to 85°C	1280	_	1335	nm
Spectral Width	σ	$Pf = 1 mW, RMS (\sigma)$			4	nm
LD Forward Voltage	Vf	Pf = 1 mW			1.5	V
Rise and Fall Time	tr, tf	10 to 90%			0.5	ns
Monitor Current	Im	Pf = 1 mW	100		400	μA
Tracking Error	Er	Im = const. @ Pf = 1 mW (25°C)	_	_	1.0	dB

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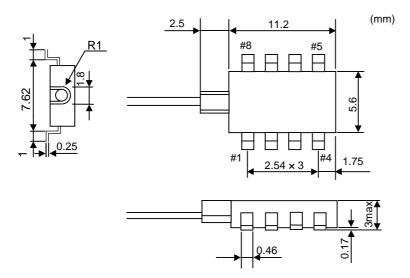
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CONNECTOR AND FIBER SPECIFICATIONS

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	CASE GROUND
2	CASE GROUND
3	CASE GROUND
4	PD CATHODE
5	PD ANODE
6	LD CATHODE
7	LD ANODE
8	CASE GROUND

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