

PD1300-1A OECA-E2000HRL

Description

The PD1300-1A OECA-E2000HRL is a PIN photodiode with low capacitance in a E2000 receptacle. The device is designed for connector LSH-APC 8° (E2000HRL). The assembled TO-device is electrical isolated from the E2000 receptacle (maximum voltage 20V) to protect the diode against ESD-damaging.

Features

- Wavelength $\lambda = 1310/1550$ nm
- Bandwidth 2 GHz

Applications

- General analog and digital application
- CATV



Device can differ from picture.
For details and pin out please refer to the drawing.

Absolute Maximum Ratings

($T_C = 25^\circ\text{C} \pm 2^\circ\text{C}$)

Parameter	Symbol	min.	max.	Unit
Reverse Voltage	V_R		20	V
Operating Temperature	$T_{OP} = T_C$	-40	+85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40	+85	$^\circ\text{C}$
Forward Current	I_F		10	mA
Optical Power input	P_O		10	mW

Optical and Electrical Characteristics

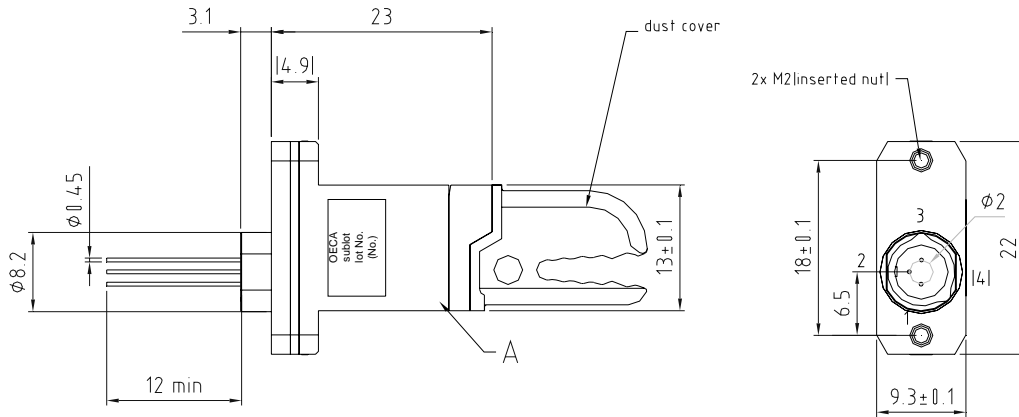
($T_C = 25^\circ\text{C} \pm 2^\circ\text{C}$)

Parameter	Symbol	Condition	min.	typ.	max.	Unit
Responsivity	R	$\lambda = 1310\text{nm}$ ^{note 1} $\lambda = 1550\text{nm}$ ^{note 1} $V_R = 5\text{V}$	0.8 0.9			A/W
Bandwidth	f_C		2			GHz
Capacitance	C	$f = 1\text{MHz}$		0.95	1.10	pF
Dark Current	I_d	$V_R = 5\text{V}$		15	160	pA
Intermodulation Distortion (second order)	IMD_2	$V_R = 5\text{V}$ ^{Note 1 / Note 2}			-70	dBc
Intermodulation Distortion (third order)	IMD_3	^{Note 1 / Note 2}			-80	dBc

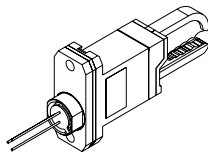
Note 1: Fiber single mode 10/125 μm ; NA=0.11, connector LSH-APC 8°

Note 2: Two tone two laser, 250MHz and 244MHz, OMI = 71%, $P_{in} = 0\text{dBm}$

Drawing



A - receptacle for connector LSH/ LSH-HRL,
ferrule sleeve tolerance grade 3,
acc. to IEC 61754-15/ Ed. 1, table 7B



Accessories:

dust cover
2x screw M2x8 ISO7045

color code: green RAL 6029

tolerances acc. to DIN ISO 2768mH

Pinout according to specification

All dimensions in mm.

Pin-Out

Pin	PD1300-1A
1	Cathode (-)
2	Case
3	Anode (+)

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