

OD9601N**1310 nm SMT Photo Diode Module with Single Mode Fiber****GENERAL DESCRIPTION**

The surface mount type PD-Preamp module combined 1.3 μm InGaAs PIN photo diode and transimpedance amplifier is intended for application in Gigabit Ethernet system operating at 1.25G bps. It operates from a single +3.3V supply and provides a differential output signal.

ABSOLUTE MAXIMUM RATINGS

(Ta = 25°C, unless otherwise noted)

Parameter	Symbol	Rating	Unit
Supply Voltage	V _{cc}	+6	V
Maximum Input Power	P _{omax}	-3	dBm
Operating Case Temperature	T _{op}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C
Lead Soldering Temperature	—	260(10 sec.)	°C

OPTICAL AND ELECTRICAL CHARACTERISTICS(Ta = -40 to 85°C, V_{cc} = +3.3 V, λ = 1310nm, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Supply Current	I _{cc}	—	—	26	50	mA
Sensitivity		10 ⁻¹² BER (Note 1)	—	-28	—	dBm
Over Load			-3	—	—	dBm
Bandwidth	BW	-3 dB, Pin = -22 dBm, Fr = 3MHz	750	820	1100	MHz
Responsivity		Differential, Pin = -22dBm	1800	2240	—	V/W
Maximum Output Voltage		Differential	185	250	415	mVpp
Output Noise Voltage		BW =1100 MHz, RL= 50 ohm	—	—	0.75	mVrms

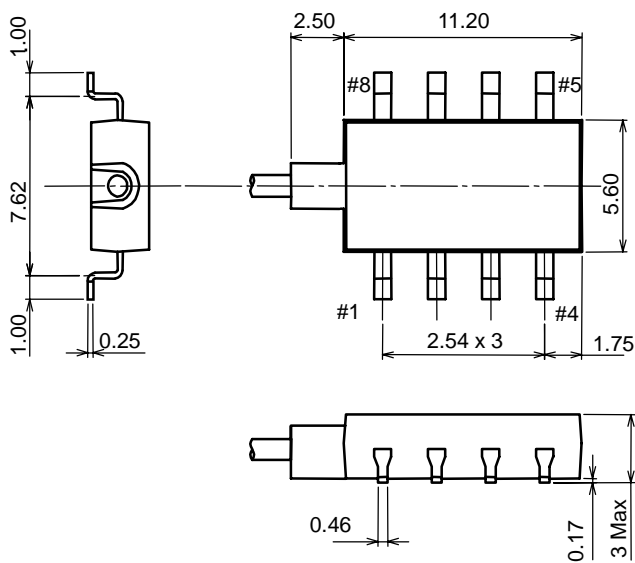
Note:1)Data rate:1.25G bps;data sequence:PRBS 2²³-1

CONNECTOR AND FIBER SPECIFICATIONS

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

OUTLINE DRAWING

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



Pin Description

No.	Function
1	V _{CC}
2	GND
3	GND
4	OUTP(+)
5	OUTN(-)
6	NC
7	GND
8	GND

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