

OD8604N**1310 nm/ 52 Mbps SMT PIN Photo Diode Module with Single Mode Fiber****GENERAL DESCRIPTION**

The OD8604N surface mount type PD-Preamplifier module is a 1.3 μm , InGaAs PIN photo diode coupled to a single mode fiber with a pigtail. It is designed for SONET OC-1.

ABSOLUTE MAXIMUM RATINGS

(Ta = 25°C, unless otherwise noted)

Parameter	Symbol	Rating	Unit
TIA Supply Voltage	V _{cc}	4	V
Optical Input Power	P _{omax}	1	mW
Operating Temperature	T _a	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +85	°C
Lead Soldering Temperature (10 sec)	T _{sid}	260	°C

OPTICAL AND ELECTRICAL CHARACTERISTICS(Ta = -40 to 85°C, $\lambda = 1310$ nm, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
TIA supply Voltage	V _{cc}	—	3.1	3.3	3.5	V
Supply Current	I _{cc}	V _{cc} = 3.3 V, Pin = 0	—	4.3	5.6	mA
Sensitivity		10 ⁻¹¹ B.E.R. (Note1)	—	-40	—	dBm
Responsivity	R	V _{cc} = 3.3 V, Pin = -30 dBm	21.2	32	—	KV/W
Bandwidth	BW	-3 dB, Pin = -30 dBm	35	49	—	MHz
Return Loss	RI	—	—	—	-27	dB

Note1:) Data rate: 52M bps; data sequence: PRBS 2¹⁵-1

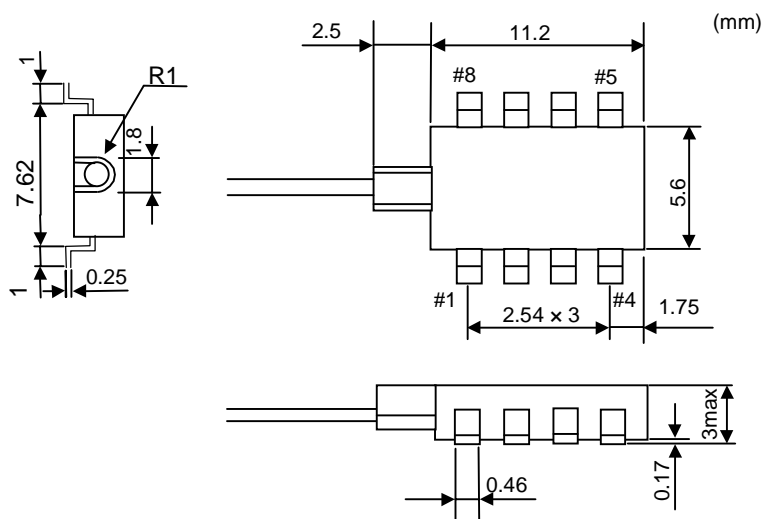
CONNECTOR AND FIBER SPECIFICATIONS

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	Dark Blue	—

OUTLINE DRAWING

All dimensions in millimeters

Package No. (Unit: mm)



PIN DESCRIPTIONS

No.	FUNCTION
1	NC
2	CASE GROUND
3	CASE GROUND
4	OUT
5	NC
6	NC
7	Vcc
8	CASE GROUND

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