

OD9603N**1310 nm SMT Photo Diode Module with Single Mode Fiber****GENERAL DESCRIPTION**

The surface mount type PD-Preamp module is a 1.3 μm InGaAs PIN photo diode coupled to a single mode fiber with a pigtail. It is designed for STM16/OC48.

ABSOLUTE MAXIMUM RATINGS

(Ta = 25°C, unless otherwise noted)

Parameter	Symbol	Rating	Unit
Supply Voltage	V_{cc}	+6	V
Maximum Input Power	Pomax	+2	dBm
Operating Case Temperature	Top	-40 to +85	°C
Storage Temperature	Tstg	-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 = 1310 nm, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Supply Current	Icc	—	—	41	—	mA
Sensitivity		10^{-10} BER (Note 1)	—	-23	—	dBm
Over Load			+1	—	—	dBm
Bandwidth	BW	-3 dB, Pin = -22 dBm, Fr = 3 MHz	—	1.6	—	GHz
Responsivity		Differential, Pin = -22 dBm	—	21	—	kV/W
Maximum Output Voltage		Differential	—	300	—	mV _{pp}

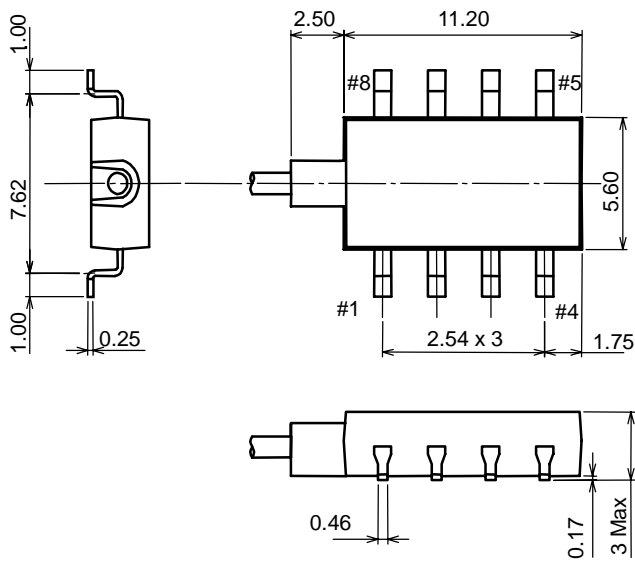
Note:1)Data rate:2.5G bps;data sequence:PRBS $2^{23}-1$

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	PD Bias
8	GND

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