

**Specifications
for Surface Mount Type APD-Preamplifier Module
with Single Mode Fiber**

**2.488Gbps
OF3604N-F5**

Receipt



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Drawing Number:JOG-00833

1st edition

OF3604N-F5

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OF3604N-F5 PD-Preamplifier Module

1. DESCRIPTION

The surface mount type APD-Preamplifier module is an avalanche photo diode coupled to a single mode fiber with a pigtail. It is designed for STM16/OC48.

2. ABSOLUTE MAXIMUM RATINGS

(Ta=25 Deg.C, unless otherwise specified)

Parameter	Ratings	Unit
Supply Voltage	6	V
Optical Input Power	6	dBm
Forward Current(I _F)	5	mA
Reverse Current(I _R)	0.5	mA
Operating Temperature(Ta)	-40 to 85	Deg.C
Storage Temperature	-40 to 85	Deg.C
Lead Soldering Temperature (10s)	260	Deg.C

3. SPECIFICATION

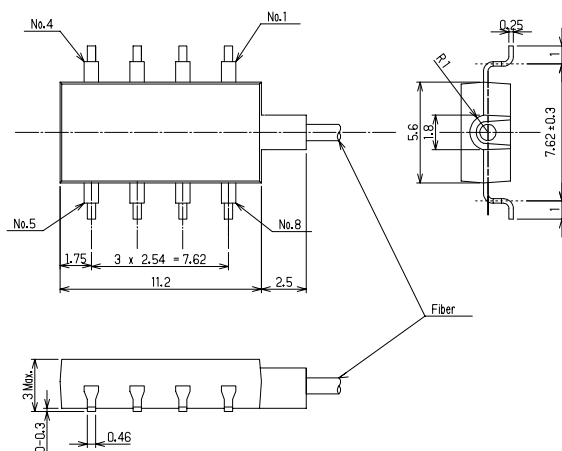
(Ta=25 Deg.C, Wavelength=1310nm)

Parameter	Conditions	Min	Typ	Max	Unit
TIA Supply Voltage	-	+3.0	+3.3	+3.6	V
TIA Supply Current	-	-	26	50	mA
Reverse breakdown Voltage(V _{BR})	I _D =100nA	-	70	-	V
Temperature Efficiency of V _{BR}	-40 to 85 Deg.C	0.15	-	0.22	%/Deg.C
Dark Current	V _R =V _{BR} ×0.9	-	5	-	nA
Bandwidth	f _{3dB}	-	1600	-	MHz
Responsivity	Differential ,measured with -30dBm signal. M=10	12.3	-	18.6	KV/W
Sensitivity	BER<10 ⁻¹⁰ (Note1)	-28.0	-31.0	-	dBm
Input Power before clipping	-	-26	-	-	dBm
Maximum Differential Output Voltage	-	185	250	415	mVp-p
Optical Overload	AC Input	-12.0	-	-	dBm
Low Frequency Cutoff	f _{3dB}	-	44	-	KHz

Note1: Data rate: 2.5Gbps; data sequence: PRBS 2²³-1

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4.OUTLINE DRAWING (unit : mm)



No.	Function
1	Vcc
2	GND
3	GND
4	OUTP(+)
5	OUTN(-)
6	NC
7	APD-Bias
8	GND

5.CONNECTOR AND FIBER SPECIFICATIONS

Connector	SC-PC
Fiber	1.31μm Single Mode Fiber Diameter : 0.9mm Color : Dark Blue Bending Radius : 20mm(min) Heat-resistant Length : 1000mm

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