

G9801-22

Board

FC

(1)

The G9801 series may be damaged by electrostatic discharge, etc. Be careful when using the G9801 series.

G9801-32

Panel

FC

(2)

Symbol	Condition	Min.	Тур.	Max.	Unit
λ		-	0.9 to 1.7	-	μm
λρ		-	1.55	-	μm
S*2	λ=1.3 μm	0.75	0.9	-	A/W
	λ=1.55 μm	0.8	0.95	-	A/W
ID	VR=5 V	-	0.02	0.4	nA
fc	VR=5 V, RL=50 Ω λ=1.3 μm, -3 dB	-	2	-	GHz
Ct	VR=5 V, f=1 MHz	-	1	1.5	pF
NEP	VR=5 V, λ=1.55 μm	-	3 × 10 ⁻¹⁵	-	W/Hz ^{1/2}
	λ λp S*2 ID fc Ct	$\begin{array}{c c} \lambda & \\ \lambda p & \\ \hline \lambda p & \\ S^{\star 2} & \frac{\lambda = 1.3 \ \mu m}{\lambda = 1.55 \ \mu m} \\ \hline ID & VR = 5 \ V & \\ \hline fc & VR = 5 \ V, \ RL = 50 \ \Omega \\ \lambda = 1.3 \ \mu m, \ -3 \ dB \\ \hline Ct & VR = 5 \ V, \ f = 1 \ MHz \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	Value	Unit
Reverse voltage	V _R max		20	V
Operating temperature	Topr	No dew condensation*1	-20 to +70	°C
Storage temperature	Tstg	No dew condensation*1	-40 to +85	°C
*1. When there is a temperature difference between a product and the surrounding area in high humidity environment, dow condensation				

1: When there is a temperature difference between a product and the surrounding area in high humidity environment, dew condensation

may occur on the product surface. Dew condensation on the product may cause deterioration in characteristics and reliability. Note: Exceeding the absolute maximum ratings even momentarily may cause a drop in product quality. Always be sure to use the

product within the absolute maximum ratings.

Package lineup

Dimensional outline

Mount type

Connector

Parameter

Absolute maximum ratings (Ta=25 °C)

Low dark current: 20 pA typ.		
High sensitivity: 0.9 A/W typ	o. (λ=1.31 μm)	
Low terminal capacitance: 1	pF typ.	

Receptacle type, 1.3/1.55 µm, 2 GHz

The G9801 series are high-speed receivers specifically developed for 1.3/1.55 µm band power monitor in optical fiber communications. These devices incorporate a high-speed, high-sensitivity InGaAs PIN photodiode integrated in a receptacle module. Packages are available with various connectors and mount types.

Features

Applications

Power monitor in optical fiber communications

InGaAs PIN photodiodes

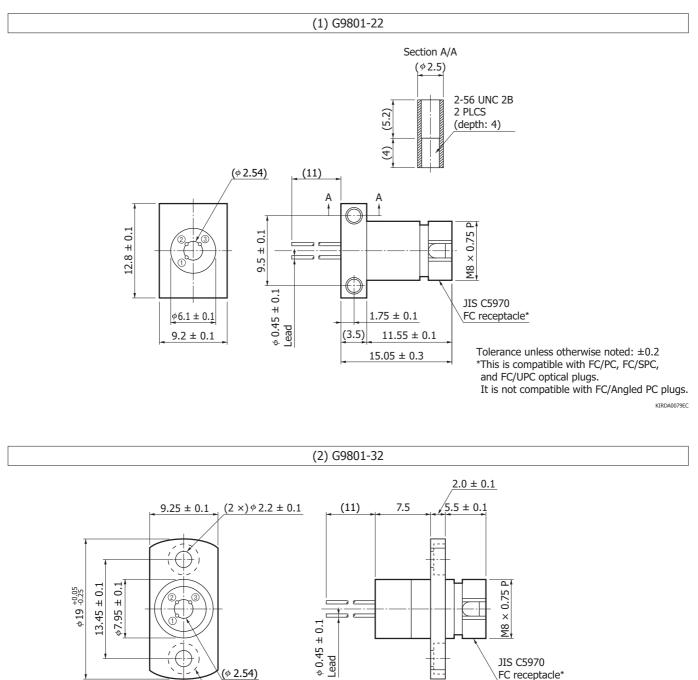
G9801 series





High-speed response: 2 GHz typ.

Dimensional outlines (unit: mm)



Pin connections

1	Anode	
2	Cathode	
3	Case	



 1.57 ± 0.1

(\$ 2.54)

 $(2 \times) \phi 4.2 \pm 0.1$

KIRDA0080EC

JIS C5970

FC receptacle*

and FC/UPC optical plugs.

Tolerance unless otherwise noted: ±0.2 *This is compatible with FC/PC, FC/SPC,

It is not compatible with FC/Angled PC plugs.

Related information

www.hamamatsu.com/sp/ssd/doc_en.html

- Precautions
 - Disclaimer
 - · Metal, ceramic, plastic products
- Technical information
 - Infrared detectors

Information described in this material is current as of August, 2015.

Product specifications are subject to change without prior notice due to improvements or other reasons. This document has been carefully prepared and the information contained is believed to be accurate. In rare cases, however, there may be inaccuracies such as text errors. Before using these products, always contact us for the delivery specification sheet to check the latest specifications.

The product warranty is valid for one year after delivery and is limited to product repair or replacement for defects discovered and reported to us within that one year period. However, even if within the warranty period we accept absolutely no liability for any loss caused by natural disasters or improper product use. Copying or reprinting the contents described in this material in whole or in part is prohibited without our prior permission.



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