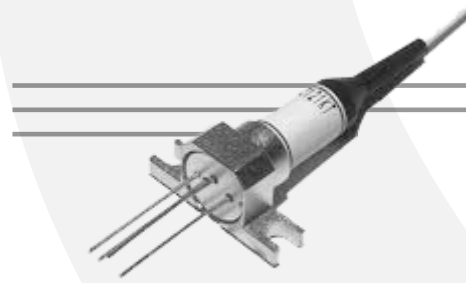


PR-3



DEVICE

InGaAs PIN Photoreceiver, 3 GHz

OVERVIEW

The Optilab PR-3 PIN preamplifiers use an InGaAs PIN chip with GaAs IC preamplifier. The package is designed for a horizontal PC board mount. Each package is connected with multi-mode fiber and it provides data rate up to 2.5 Gb/s. The detector preamplifier is DC coupled and has a low electrical output when the PIN is illuminated. Contact Optilab for more details

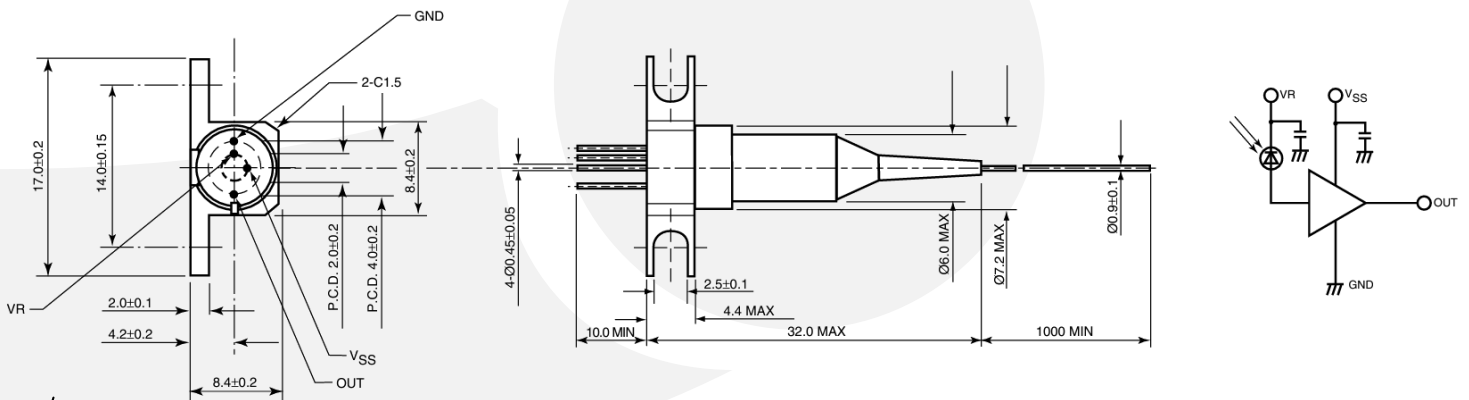
FEATURES

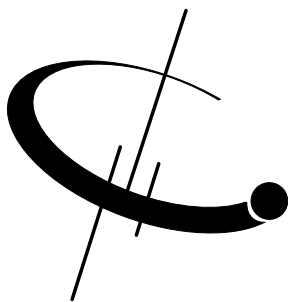
- 3 GHz Bandwidth
- High Responsivity : 0.85A/W @1550nm
- InGaAs PIN Pre Amplifier

USE IN

- Optical Transmission Systems
- Optical Communication
- Test and Measurement

MECHANICAL DRAWING (unit : mm)





PR-3

SPECIFICATIONS

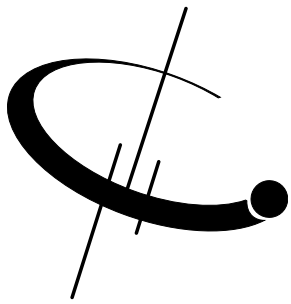
GENERAL

| | |
|---|--|
| Responsivity | 0.85 A/W min @ 1310nm 0.85 A/W min @ 1550nm |
| Sensitivity | -23 dBm typ. |
| Bandwidth | 3 GHz typ. |
| AC Transimpedance | 600 Ω |
| Equivalent Input Noise Current Density | 7 pA/Sqrt(Hz) typ. |
| Sensitivity | -23 dBm typ. |
| Maximum Overload | -3 dBm min. |
| PIN Reverse Voltage Vr | 5 V typ. |
| Power Supply Current Iss | 35 mA typ. |
| Power Supply Voltage Vss | -5.2 V typ. |
| Fiber | OM2 Multimode |
| Connector | LC/UPC or FC/APC |

ABSOLUTE MAXIMUM

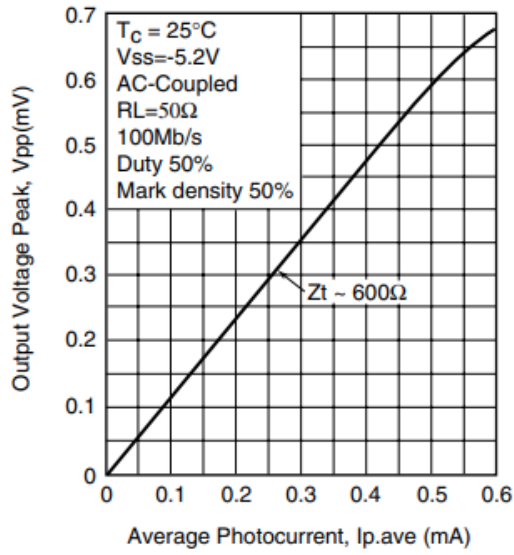
| | |
|-----------------------------|----------------|
| Storage Temperature | -40°C to +85°C |
| Operating Temperature | -40°C to +85°C |
| Minimum Supply Voltage | -7V |
| Maximum Supply Voltage | 0V |
| Minimum PIN Reverse Voltage | 0V |
| Maximum PIN Reverse Voltage | 20V |
| PIN Reverse Current | 2 mA |



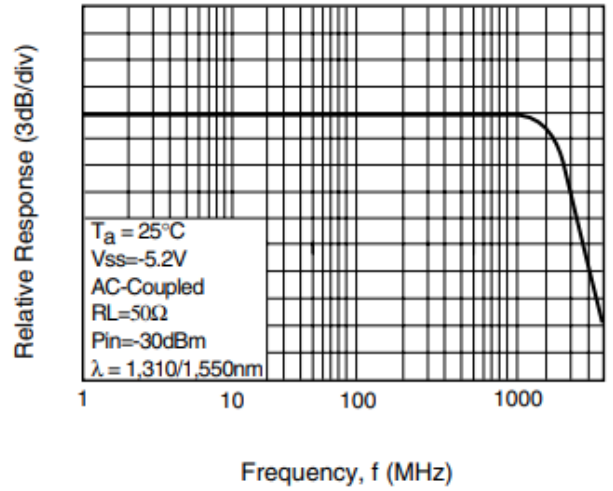


PR-3

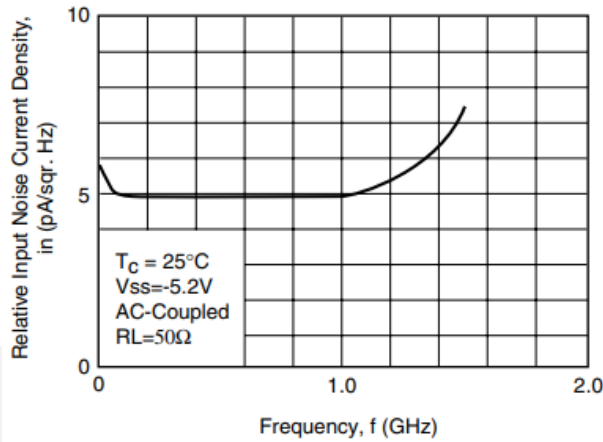
TEST DATA



[Output Characteristics]

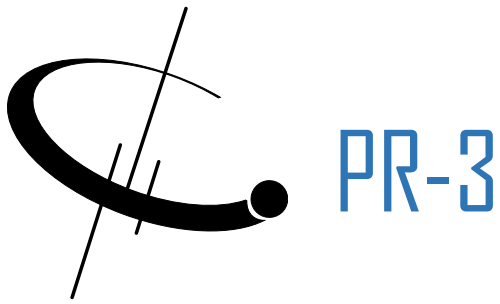


[Relative Frequency Response]



[Equivalent Input Noise Current Density]





RELATED PHOTODIODE

- PD-3



The Optilab PD-3 is an Linear InGaAs PIN photodiode with a multimode fiber pigtail with bandwidth of 3 GHz. Contact Optilab for more detail.

RELATED MODULE

- PR-3-M



The Optilab PR-3-M is a 3 GHz photodiode module designed for RF over Fiber application with RS232 remote control. Contact Optilab for more detail

