Photonis’ Optical Receiver is a high speed optical detector that is suitable for fast optical signals in the green to ultra-violet spectral range. The Optical Receiver module is also suitable for operation in vacuum environments.

**Fast Optical Signals**

The number of gain stages is set to provide output levels suitable for communication signals at very high data rates.

**High Data Rate**

The inclusion of a high voltage power supply allows operation by application of only 5 volts input. High speed signal output is supplied by 50 ohm cable with an SMA connector.

**Low Power Module**

Photonis’ Optical Receiver won the 2010 Prism Award for Photonic Innovation in the Communications and Information category.
Applications

- High-speed optical communications
- Through the air, line-of-sight
- Analytical instruments

Features

- High-speed, <350 pS rise time
- Large 22 mm active input diameter
- Low power, high voltage supply
- Flexible, modular configuration

Description

Photocathode Type: K Cs Sb
Wavelength of Maximum Response: 390 nm
Multiplier Structure: Circular cage

Physical Characteristics

Spectral Response: 300 to 600 nm
Wavelength of Maximum Response: 390 nm
Active Area: 22 mm (12 mm for best time response)
Dynode Number: 5 stage Sb
Output Connector: SMA male

Electrical Characteristics

Supply Voltage: +5 volts +/- 0.5 volts
Supply Current: 50 mA maximum
Gain: 36000 nominal
Rise Time: < 350 pS
Full width at half max: <470 pS

Maximum Ratings

Operating Temperature: +5 to +50 °C
Storage Temperature: -20 to +50 °C

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