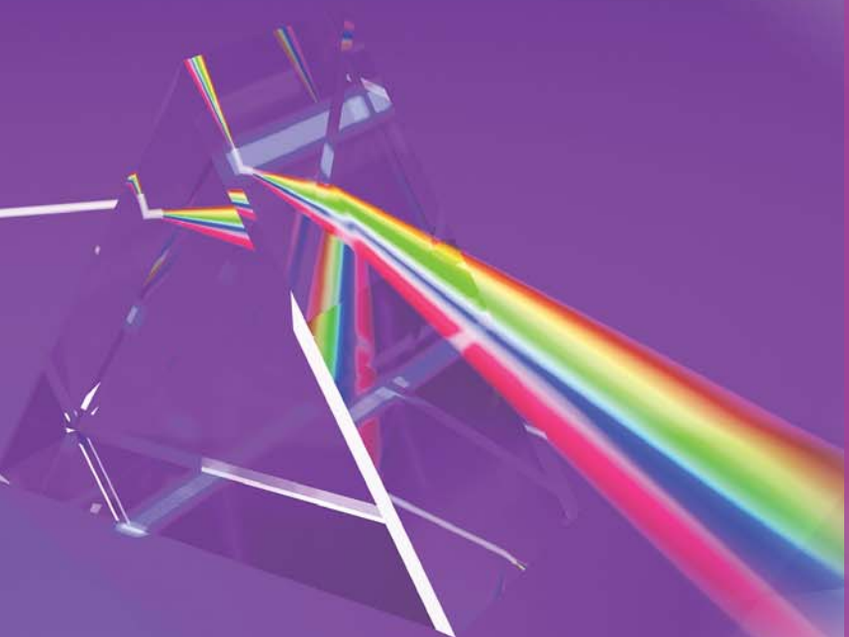
PHOTONIS
Scientific Detectors

Fast Precise Efficient



Optical Receiver Module

Fast Optical Signals

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.

High Data Rate

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

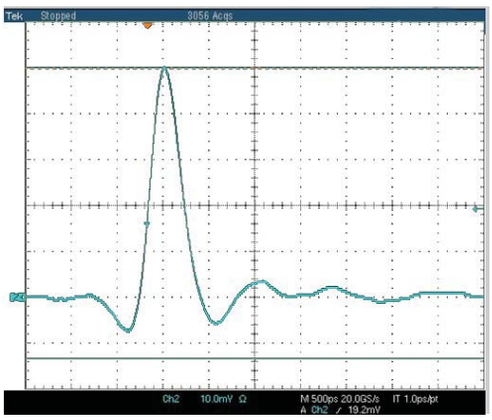
Low Power Module

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.

PRISM AWARD WINNER

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

PRISM AWARDS WINNER



Time response 350 pS rise time,
470 pS FWHM with 2.5 GHz scope

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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