High-precision inventory of optical receivers

Overview

The SPIE Digital Library offers a comprehensive range of content on receivers, encompassing various aspects of their design, function, and application across multiple fields, particularly in optics and photonics. Our optical receivers and detectors make photodetection easy and provide the lowest noise and cleanest response possible. Our broad offering spans wavelength ranges from UV to short-wave IR for free-space and fiber-coupled configurations in many versions: high-speed, general-purpose, balanced. For over 30 years, MACOM has developed and manufactured the fastest, most sensitive and broadest wavelength photoreceivers available. Our experience in leading-edge technology allows us to provide products that easily integrate within customers' systems. Precision OT offers the widest variety of cost-effective OEM-compatible optical transceivers and related optical networking equipment. Different jobs require different receivers. We have a reputation for building high quality, robust receivers that incorporate innovative patented technology to help. Spurious emissions created by today's direct RF sampling receivers can potentially cripple the system's ability to detect and precisely analyze signals of interest.

Article Content

Optical Transceivers | The widest variety of cost-effective transceivers

Precision OT offers the widest variety of cost-effective OEM-compatible optical transceivers and related optical networking equipment. Our extensive inventory allows for short lead times and same day …

Precision Receivers

Monitoring signals in today''s densely-pack frequencies requires receivers that provide a clear view of the spectral environment, which can range from HF through millimeter wavelengths.

Receivers

The library includes research articles, conference proceedings, and technical papers that delve into different types of receivers, such as optical, radiofrequency, and infrared receivers.

Optical Receivers: Structures, Performance, and Optimization

Before comparing different optical receiver concepts and discussing the most relevant receiver design trade-offs, we introduce some important receiver performance measures.

Optical Receiver Selection Guide

With a wide variety of standard, custom, and OEM versions, we have the broadest selection of plug-& -play photoreceivers and photodetectors available anywhere.

Accurate Standard Laser Receivers By Spectra Precision

Tough, accurate and reliable sums up our laser receiver line of products. We have a reputation for building high quality, robust receivers that incorporate innovative patented technology to help you …

High Speed Optical Receiver Modules

For over 30 years, MACOM has developed and manufactured the fastest, most sensitive and broadest wavelength photoreceivers available. Our experience in leading-edge technology allows us to …

Receivers

Femtowatt (ultra low noise min. NEP 0.7fW/√Hz), variable gain (10E3 to 10E11 V/W) and fixed gain photoreceivers offer a solution to measuring fast and precise small optical signals.

High Performance Analog Interface and Clock Products …

The TIA is the most widely used optical receiver preamplifier because of its wide dynamic range. The value of the feedback resistor influences the the bandwidth, sensitivity and overload.

Optoplex Integrated High-Speed Receivers

The company designs, develops, manufactures, and markets high performance fiber-optic products to communications networks, and provides customized solutions to instrument, defense, spectroscopy ...

Contact Us

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