

Applications

- SONET/SDH Systems
- CATV and 10G-Enet
- Transmitter/Receiver components Testing
- Optical Network System Bit Error
- Rate Testing

Description

This general purpose benchtop optical receiver is designed for high speed testing of optical network systems and components. The standard receiver unit can detect modulation frequency to 11.5GHz bandwidth. A built-in low noise pre-amp EDFA provides the required pre-amplification of incoming signal, before reaching photoreceiver. Additional features include an optical power monitor to control a variable optical attenuator. For complete SONET system applications, an optical 10G clock recovery circuit can be ordered with the standard receiver unit.



Key Features

- Built-in Optical Power Control Module
- Incoming Signal and Amplified Signal
- Power Monitor
- Built-in Low Noise EDFA
- Wide-Frequency Bandwidth
- Broadband Wavelength Range
- Good performance cost ratio
- Two year warranty

Light Receiver Specifications

	Lightwave Receiver
Data Rate	155Mb/s to 11Gb/s
Input Power Level	-12dBm to -3dBm
Optical Wavelength	1290nm to 1565nm
Optical Sensitivity $2^{23} - 1$ BER $<10^{10}$	Typ. -19dBm, Max. -17.5dBm
Return Loss S_{22}	Typ. -12dBm, Max. -5dBm
High Frequency -3dB Corner	Typ. 11.5GHz, Min. 8GHz
Maximum Optical Input Power	0dBm
Optical Power Measure Range	-40dBm to 0dBm
Coupling	AC –coupled to ground
Clock Output (optional)	Min. 500mV
Clock Output Intrinsic Jitter (optional)	0.031 UI RMS

General Environmental Parameters

Parameter	Unit	Specification
Operation Temperature Range	°C	0 to +40
Storage Temperature Range	°C	-10 to +70
Dimensions	mm	350(W) x 300(L) x 100(H)
RF Data Input Connector	-	SMA
Control	-	EDFA driving current
Display	-	EDFA laser output power, average input power
Optical Connector	-	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Input Fiber	-	SMF-28

Option:

- Built-in optical attenuator
- Built-in tunable filter
- Built-in EDFA
- Clock recovery circuit



Ordering Information

Product Code	Lightwave Receiver
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Amonics undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

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