

### 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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