## Optical /Electrical Converter

**OE-1001** 

For analyzing medium to high speed optical signals

The *LuxLink*® OE-1001 is an amplified analog optical to electrical converter that is utilized to view optical signals present in a fiber optic cable. It is useful for research and development applications as well as routine troubleshooting. Two wavelength rages are available. Integral indicators are provided to monitor repetitive signals as well as the presence of operating power making system troubleshooting simple.



## **Technical Specifications**

Important Features

Bandwidth (-3dB) 50 KHz to 1.5 GHz Rise time < 1 nsec for -3, -7 models < 2 nsec for -1 model Optical Input Power Max 0 dBm (1000uW) @850nm

-3 dBm (500uW) @1310/1550 nm Optical Noise Level (typical) -20 dBm (10uW) rms @ 850nm

-23 dBm (5uW) rms @ 1310/ 1550nm

20 dB usable

Dynamic Range Electrical Output Level 1V peak to peak at max optical input

Output Impedance 50 Ohms

Operating Wavelength 660,850, 1310 or 1550nm

Indicators

**Optical Connectors** ST for -1 & -3 models

FCPC -7 models

Electrical Signal Connector **BNC** 

Operating Temperature

Humidity MTBF (per MIL HBK 217D) >120,000 hours

Power Requirements

Physical Size (mm)

-35° to +75°C

Power, Signal

<95% non condensing

11-24 VAC/DC @250 mA

5.0" (127) x 3.0" (76) x 1.0" (25.4)

Note that all specifications are subject to change without prior notice.

- 1.5 GHz Bandwidth
- 40 dB Power Gain
- Signal/Power Indicators
- Stand-alone, DIN or Rack Mountable (same unit)
- Cost Effective

Models OE-1001-3 & -7	
λ	Sensitivity
1550nm	> 100 mV/μW
1310nm	> 80 mV/μW
850nm	> 10 mV/μW

Model OE-1001-1	
λ	Sensitivity
850nm	> 40 mV/μW
660nm	> 20 mV/μW

## **Ordering Information**

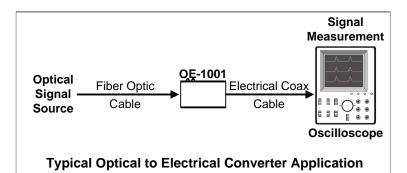
OE-1001-X

"X" = wavelength/connector type

-1 = 650nm -850nm ST/PC

-3 = 850nm-1550nm ST/PC

-7 = 850nm-1550nm FC/PC





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