

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 ranges 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

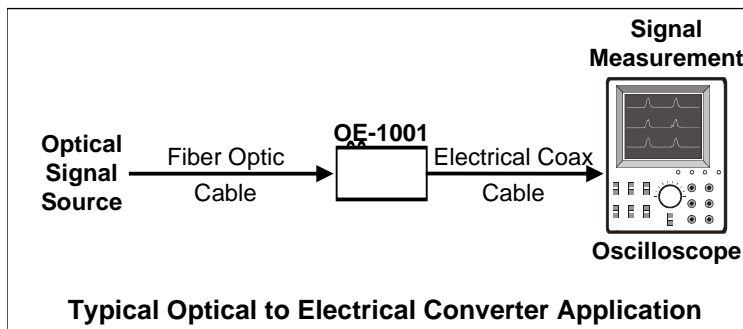
Bandwidth (-3dB)	50 KHz to 1.5 GHz
Rise time	< 1 nsec for -3, -7 models < 2 nsec for -1 models
Optical Input Power Max	0 dBm (1000uW) @850nm -3 dBm (500uW) @1310/1550 nm
Optical Noise Level (typical)	-20 dBm (10uW) rms @ 850nm -23 dBm (5uW) rms @ 1310/ 1550nm
Dynamic Range	20 dB usable
Electrical Output Level	1V peak to peak at max optical
Output Impedance	50 Ohms
Operating Wavelength	660,850, 1310 or 1550nm
Indicators	Power, Signal
Optical Connectors	ST for -1 & -3 models FCPC -7 models
Electrical Signal Connector	BNC
Operating Temperature	-35° to +75°C
Power Requirements	11-24 VAC/DC @250ma
Physical Size (mm)	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**
- **Cost Effective**

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

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



Ordering Information

OE-1001-X

Where X = wavelength & connector type

- 1 = 650nm -850nm ST/PC
- 3 = 850nm-1550nm ST/PC
- 7 = 850nm-1550nm FC/PC