LeCroy

Multi-mode Optical-to-Electrical Converters

OE525/OE555/OE425/OE455

Features

- **Frequency range to 5 GHz (6 GHz optical)**
- **62.5 µm or narrower multi-mode or single-mode fiber input**
- **Broad wavelength range:**
  – 500–870 nm (OE425, OE525)
  – 950–1630 nm (OE455, OE555)
- **High responsivity**
- **Low noise**



OE455 optical-to-electrical converter shown with multi-mode fiber jumper attached.

LeCroy's wide-band multi-mode optical-to-electrical converters are designed for measuring optical communications signals. Their broad wavelength range and multi-mode input optics make these devices ideal for applications including Gigabit Ethernet and Fibre Channel, as well as SONET/SDH up to 2.5 Gb/s.

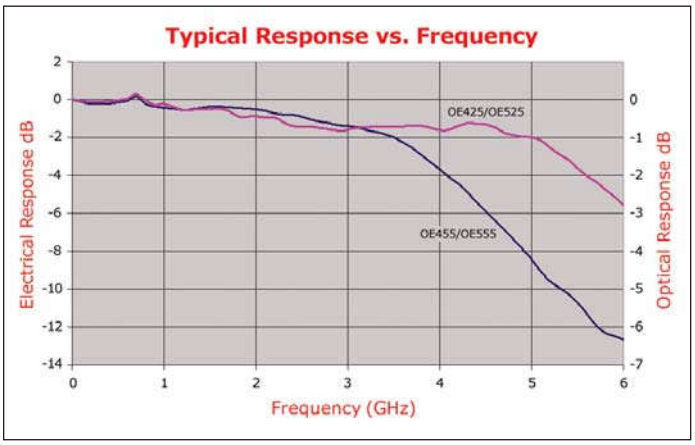
The OE425 and OE455 are ProBus modules compatible with WavePro® oscilloscopes, as well as WaveMaster® when used with a LPA-BNC adapter.

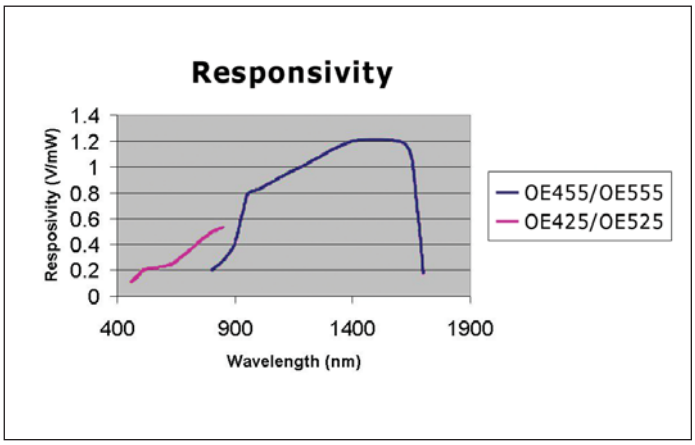
The OE525 and OE555 are ProLink modules compatible with WaveMaster, SDA models, and DDA oscilloscopes.

Universal Calibrated Reference Receivers

The O/E converters contain calibration data that can be used to create optical reference receivers for SONET/SDH (up to OC48/STM16), Fibre Channel, Gigabit Ethernet, and other optical standards. This feature is available when the O/E is used on a WaveMaster Series oscilloscope. The universal reference receiver supports any data rate up to 3 GHz and remains calibrated on any channel of any WaveMaster.

SPECIFICATIONS AND ORDERING INFORMATION





Specifications

	OE425/OE525	OE455/OE555
Wavelength Range	500–870 nm 460–870 nm (0.1 V/mW)	950–1630 nm 800–1630 nm (0.1 V/mW)
Conversion Gain	0.5 V/mW	1.1 V/mW
Bandwidth	5 GHz (6 GHz optical)	3.5 GHz (4.5 GHz optical)
Equivalent Noise	2.2 µW rms	1.0 µW rms

	OE425/OE525	OE455/OE555
Maximum Optical Power (at 5% saturation)	2.2 mW	1.0 mW
Rise Time	90 ps	108 ps
Maximum Safe Input	5.5 mW	2.5 mW
Temperature Drift	0.00275 dB / °C	0.00275 dB / °C
Frequency Response Ripple	1.1 dB	1.1 dB
Connector Type	FC/PC	FC/PC

Ordering Information

Product Description	Product Code
Optical-to-Electrical Converter, 500–870 nm ProBus BNC Connector	OE425
Optical-to-Electrical Converter, 950–1630 nm ProBus BNC Connector	OE455
Optical-to-Electrical Converter, 500–870 nm ProLink BMA Connector	OE525
Optical-to-Electrical Converter, 950–1630 nm ProLink BMA Connector	OE555

Included Accessories

- Multi-mode optical fiber jumper FC-FC
- FC to ST adapter
- FC to SC adapter

Customer Service

LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years and our probes are warranted for one year.

This warranty includes:

- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge

LeCroy 1-800-5-LeCroy www.lecroy.com

Local sales offices are located throughout the world.
Visit our website to find the most convenient location.

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