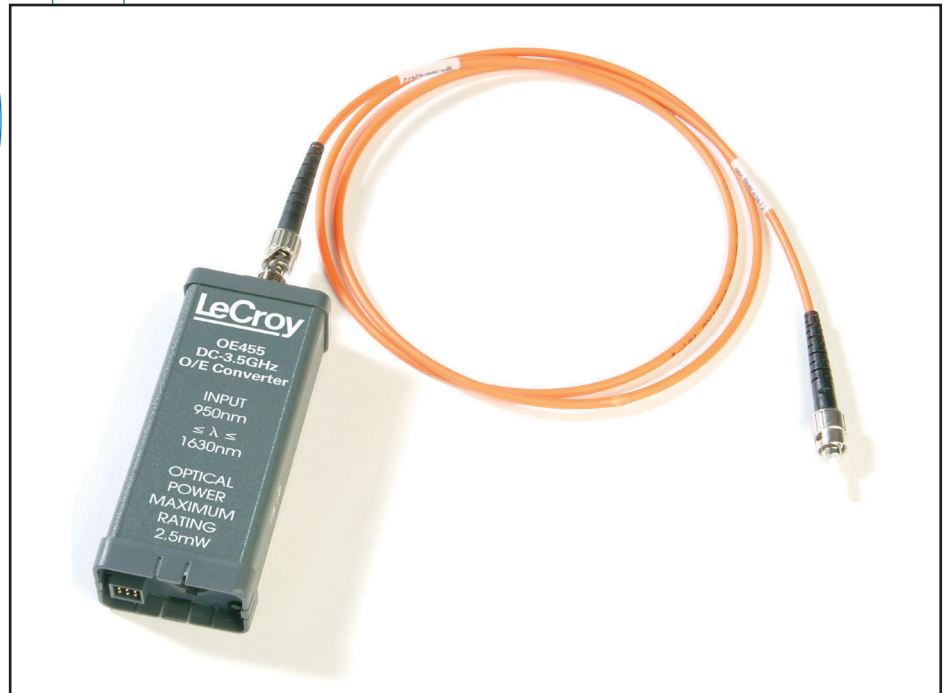


O to E Converters

OE525 OE555 OE425 OE455 Multi-mode Optical-to-Electrical Converters

Leading Features

- Frequency range to 5 GHz (6 GHz optical)
- 62.5 μm multi-mode fiber input
- Broad wavelength range: 500–870 nm (OE425) and (OE525) 950–1630 nm (OE455) and (OE555)
- High responsivity: 1.1 V/mW
- Low noise: 1.1 $\mu\text{W rms}$



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

These 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 Fibrechannel, as well as SONET/SDH up to 2.5 Gb/s.

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

The OE525 and OE555 are ProLink® modules compatible with WaveMaster, SDA and DDA instruments.

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. This universal reference receiver supports any data rate up to 3 GHz and remains calibrated on any channel of any WaveMaster.

Specifications

	OE425/OE525	OE455/OE555
Wavelength Range:	500–870 nm	950–1630 nm
	460–870 nm (.1V/mW)	800–1630 nm (.1V/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 μ W rms	1.2 μ W rms
Maximum Optical Power (at 5% saturation):	2.2 mW	1.3 mW
Rise Time:	90 ps	108 ps
Maximum Safe Input:	5.5 mW	1.3 mW
Temperature Drift:	0.00275 dB/deg.C	0.00275 dB/deg.C
Frequency Response Ripple:	1.1 dB	1.1 dB
Connector Type:	FC/PC	FC/PC

Sales and Service Throughout the World

Corporate Headquarters

700 Chestnut Ridge Road
Chestnut Ridge, NY 10977
USA
<http://www.lecroy.com>

LeCroy Sales Offices:

Austria: Markersdorf
Phone (43) 2749 30050
Fax (43) 2749 30051

China: Beijing
Phone (86) 10 8526 1616
Fax (86) 10 8526 1619

Hong Kong
Phone (852) 2834 5630
Fax (852) 2834 9893

France: Les Ulis
Phone (33) 1 69 18 83 20
Fax (33) 1 69 07 40 42

Germany: Heidelberg
Phone (49) 6221 827 00
Fax (49) 6221 834 655

Italy: Venice
Phone (39) 041 456 97 00
Fax (39) 041 456 95 42

Japan: Osaka
Phone (81) 6 6396 0961
Fax (81) 6 6396 0962

Tokyo
Phone (81) 3 3376 9400
Fax (81) 3 3376 9587

Korea: Seoul
Phone (82) 2 3452 0400
Fax (82) 2 3452 0490

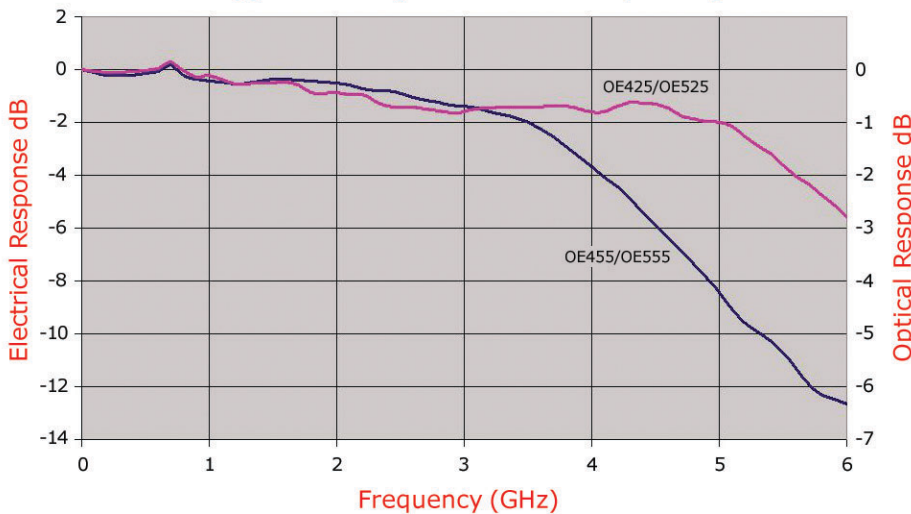
Singapore
Phone (65) 6442 4880
Fax (65) 6442 7811

Switzerland: Geneva
North Phone (41) 22 719 2228
South Phone (41) 22 719 2175
Fax (65) 6442 7811

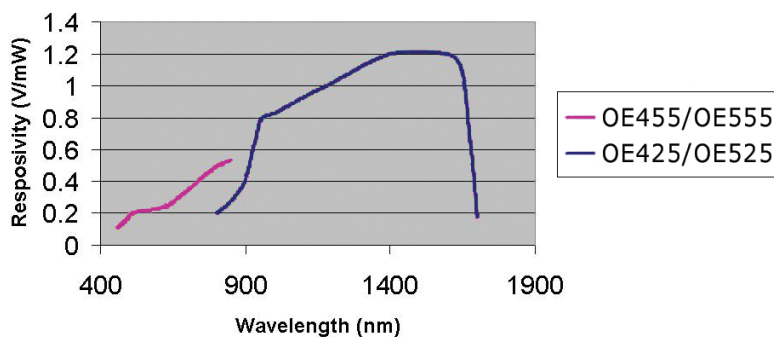
U.K.: Abingdon
Phone (44) 1 235 536 973
Fax (44) 1 235 528 796

U.S.A.: Chestnut Ridge
Phone (1) 845 578 6020
Fax (1) 845 578 5985

Typical Response vs. Frequency



Responsivity



Ordering Information

Product Code

Short wavelength O/E Converter (500–870 nm) (ProBus®)	OE425
Long wavelength O/E Converter (950–1630 nm) (ProBus)	OE455
Short wavelength O/E Converter (500–870 nm) (ProLink)	OE525
Long wavelength O/E Converter (950–1630 nm) (ProLink)	OE555

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