



ABN 43 064 478 842

231 Osborne Avenue Clayton South, VIC 3169
PO Box 1548, Clayton South, VIC 3169
t 03 9265 7400 f 03 9558 0875
freecall 1800 680 680
www.tmgtestequipment.com.au

Test & Measurement

- > sales
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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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Product Lifecycle Management System

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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 460–870 nm (.1V/mW)	950–1630 nm 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

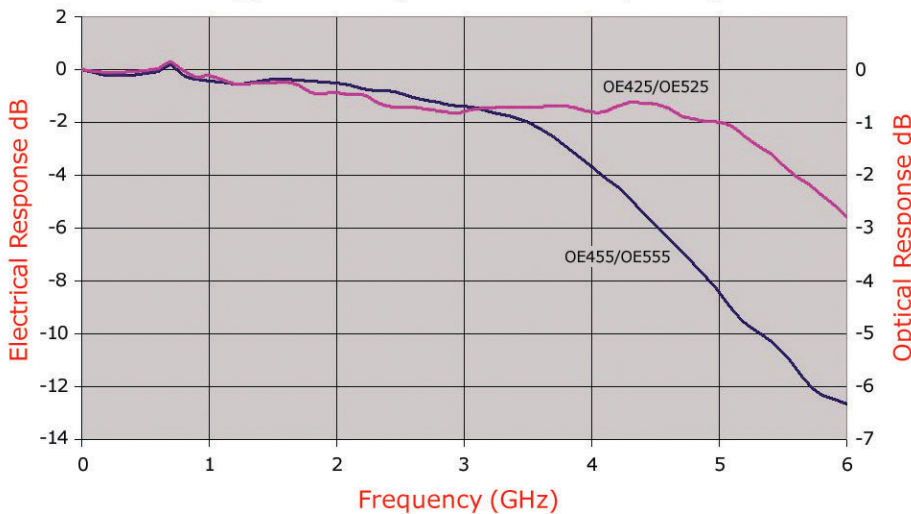
Singapore
Phone (65) 6442 4880
Fax (65) 6442 7811

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

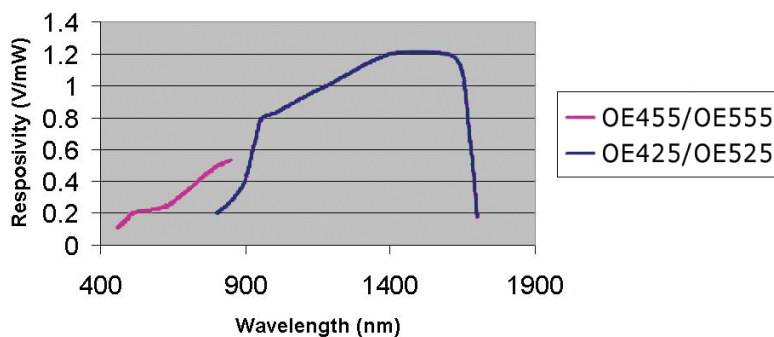
U.K.: Abingdon
Phone (44) 1 235 536 973
Fax (44) 1 235 528 796

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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