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Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

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.

If you click on the “Click-to-Call” logo below, you can call us for FREE!

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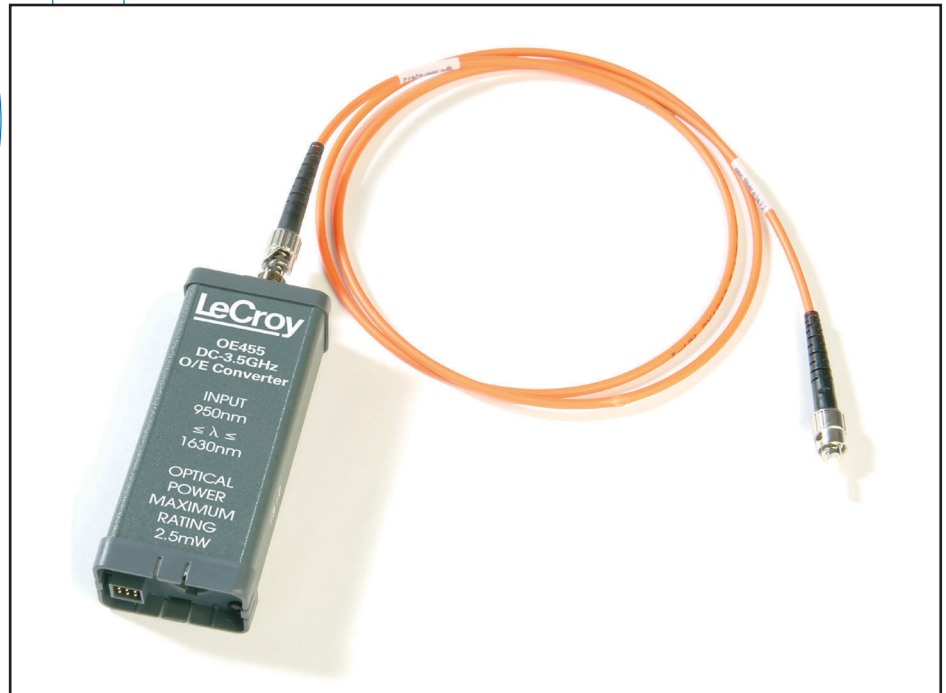
O to E Converters

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.

LeCroy

Specifications

	<u>OE425/OE525</u>	<u>OE455/OE555</u>
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

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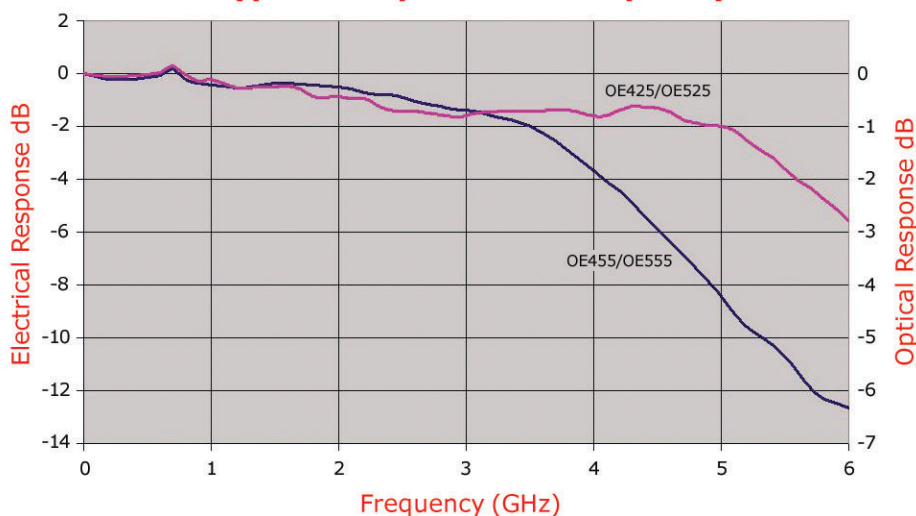
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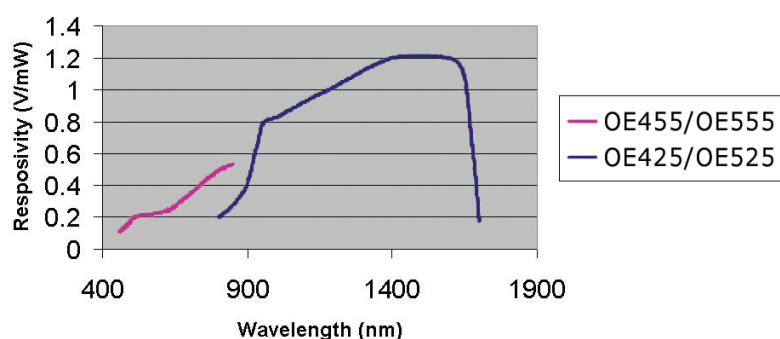
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U.S.A.: Chestnut Ridge
Phone (1) 845 578 6020
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Typical Response vs. Frequency



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