

O to E Converters

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), 950–1630 nm (OE455)
- 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.

The OE425 and OE455 are wide-band multi-mode optical-to-electrical converters 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.

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	OE455
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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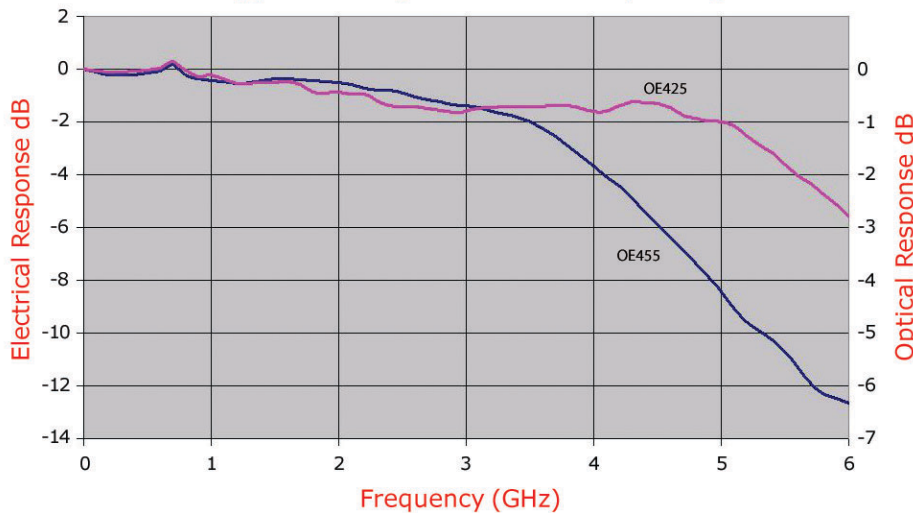
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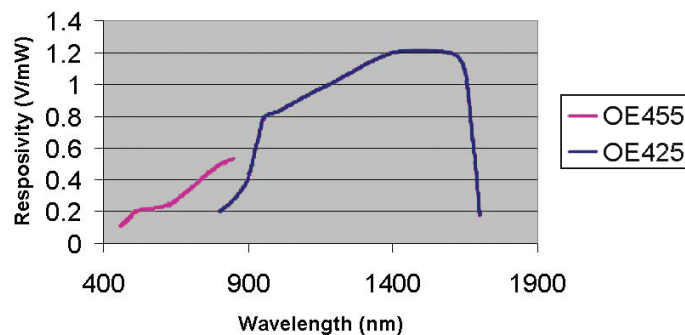
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Typical Response vs. Frequency



Responsivity



Ordering Information

Short wavelength O/E converter (500–870 nm)
Long wavelength O/E converter (950–1630 nm)

Product Code

OE425
OE455