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Data Sheet

August 3, 2026

LECROY

LeCroy OE695G Optical to Electrical Converter

Teledyne LeCroy OE695G Optical to Electrical Converter The OE695G provides a Teledyne LeCroy optical-to-electrical converter for high-speed optical link analysis on WaveMaster / SDA / LabMaster platforms. It converts optical signals to electrical for scope acquisition with DC to 9.5 GHz (–3 dB) electrical bandwidth, reference-receiver support from 8GFC through 10GFC FEC (or custom <12.5 Gb/s), and 750–1650 nm wavelength coverage on multimode or single-mode fiber. Optical transceiver / link debug; reference-receiver eye analysis; Fiber Channel and multi-Gb/s optical serial data with WaveMaster 8 Zi-A class scopes. The OE695G provides a Teledyne LeCroy optical-to-electrical converter for high-speed optical link analysis on WaveMaster / SDA / LabMaster platforms. It converts optical signals to electrical for scope acquisition with DC to 9.5 GHz (–3 dB) electrical bandwidth, reference-receiver support from 8GFC through 10GFC FEC (or custom <12.5 Gb/s), and 750–1650 nm wavelength coverage on multimode or single-mode fiber. Optical transceiver / link debug; reference-receiver eye analysis; Fiber Channel and multi-Gb/s optical serial data with WaveMaster 8 Zi-A class scopes.



MODEL

Lecroy OE695G

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

OE695G

LISTING

<https://aumictechlabs.com/products/oe695g-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The LeCroy OE695G is an optical-to-electrical converter that transforms optical signals across a broad wavelength range into electrical signals suitable for oscilloscope analysis. It delivers precise signal conversion with exceptional noise performance, enabling detailed examination of optical data streams from 622 Mb/s to 12.5 Gb/s. The OE695G integrates directly with Teledyne LeCroy oscilloscopes to provide advanced optical signal integrity analysis, reference receiver filtering for industry standards, and comprehensive troubleshooting capabilities for telecommunications, datacom, and optical measurement applications.

Technical Specifications
Bandwidth: DC to 9.5 GHz at -3 dB (full bandwidth mode); rise time approximately 45 ps (10–90%)
Wavelength Range: 750 nm to 1650 nm (calibrated range 780 nm to 1550 nm)
Data Rate Support: 622 Mb/s to 12.5 Gb/s
Maximum Optical Input Power: +7 dBm (5 mW peak)
Noise Performance: As low as 25 pW/√Hz; Noise Equivalent Power up to 50 pW/√Hz
Vertical Level Power Accuracy: 5% typical, 10% maximum at 785, 850, 1310, and 1550 nm
Dark Calibration Accuracy: 1 μW typical; temperature drift -2 μW/°C typical
Optical Return Loss: Typically -30 dB (1310/1550 nm single-mode); -14 dB (850 nm multi-mode)

Key Features
Built-in software reference receiver filters for Fiber Channel, Ethernet, and ITU telecom standards
Custom reference receiver support for any bit rate up to 12.5 Gb/s
4-pole Bessel Thomson low-pass filter response with ±1.6 dBe combined passband ripple (typical)
Optional OE695G-REFCAL calibration for ±0.85 dB maximum passband response guarantee
62.5/125 μm multi-mode optical input connector

Compatibility & Integration
Requires Teledyne LeCroy oscilloscope firmware version 6.9.0.0 or later
Recommended oscilloscope bandwidth: ≥20 GHz

Features & description

From manufacturer datasheet

Features

- Electrical bandwidth: DC to 9.5 GHz (−3 dB) • Reference receiver support: 8GFC to 10GFC FEC, or custom <12.5 Gb/s • Fiber input: 62.5/125 μm multimode or single-mode • Wavelength: 750 to 1650 nm
- Max peak optical power: +7 dBm (5 mW) • Noise: as low as 25 pW/√Hz • Designed for Teledyne LeCroy high-bandwidth oscilloscope platforms

OE695G Characteristics / Specifications

PARAMETER	VALUE
Model	OE695G
Manufacturer	Teledyne LeCroy
Instrument Type	Optical-to-Electrical Converter
Alias	OE695G; OE-695G Optical / Electrical
Wavelength Range	750–1650 nm
Fiber	62.5/125 µm MM or SM
Max Peak Optical Power	+7 dBm (5 mW)
Noise Density	as low as 25 pW/√Hz
Reference Receiver Modes	8GFC–10GFC FEC class; custom rates <12.5 Gb/s Standard Operating Conditions Do not exceed +7 dBm peak optical. Use clean APC/PC connectors appropriate to the fiber type. Mate to compatible LeCroy scope input path per OE695G manual.
Intended asaWaveMaster/SDA accessory	confirm ProLink/compatible interface. Clean fiber end-faces before every connection.
Electrical bandwidth	DC to 9.5 GHz (–3 dB)
Reference receiver support	8GFC to 10GFC FEC, or custom <12.5 Gb/s
Fiber input	62.5/125 µm multimode or single-mode
Wavelength	750 to 1650 nm
Noise	as low as 25 pW/√Hz
Bandwidth	DC to 9.5 GHz (–3 dB) - Reference receiver support: 8GFC to 10GFC FEC, or custom <12.5 Gb/s - Fiber input: 62.5/125 µm multimode or single-mode - Wavelength: 750 to 1650 nm - Max peak optical power: +7 dBm (5 mW) - Noise: as low as 25 pW/√Hz - Design

OE695G Specifications

PARAMETER	VALUE
Teledyne LeCroy OE695G Optical to Electrical Converter	Overview
Key Features	- Electrical bandwidth: DC to 9.5 GHz (−3 dB)
Technical Specifications	Model: OE695G
Optical / Electrical	Frequency Range (electrical −3 dB): DC to 9.5 GHz

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	OE695G
Manufacturer	Teledyne LeCroy
Instrument Type	Optical-to-Electrical Converter
Alias	OE695G; OE-695G

Specifications

PARAMETER	VALUE
Optical / Electrical	Frequency Range (electrical -3 dB): DC to 9.5 GHz
Wavelength Range	750-1650 nm
Fiber	62.5/125 μ m MM or SM
Max Peak Optical Power	+7 dBm (5 mW)
Noise Density	as low as 25 pW/√Hz
Reference Receiver Modes	8GFC-10GFC FEC class; custom rates <12.5 Gb/s

Standard Operating Conditions

Do not exceed +7 dBm peak optical. Use clean APC/PC connectors appropriate to the fiber type. Mate to compatible LeCroy scope input path per OE695G manual.

Operational Notes

Intended as a WaveMaster/SDA accessory—confirm ProLink/compatible interface. Clean fiber end-faces before every connection.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.