

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

CVI MELLES GRIOT

CVI Melles Griot 13AMP005 Wide Bandwidth Amplifier

CVI Melles Griot 13AMP005 Wide Bandwidth Amplifier The CVI Melles Griot 13AMP005 is a wide-bandwidth amplifier. OEM 13AMP005 listings describe a laboratory analog amplifier for fast optical-detector and wideband signal conditioning, complementary to 13AMP003 large-dynamic-range amplifier. Wide-bandwidth amplification of fast optical-detector signals in photonics labs. Wide bandwidth amplifier CVI Melles Griot 13AMP family Companion to 13AMP003 large dynamic range Photonics detector conditioning Laboratory analog amplifier Fast signal gain The CVI Melles Griot 13AMP005 is a wide-bandwidth amplifier. OEM 13AMP005 listings describe a laboratory analog amplifier for fast optical-detector and wideband signal conditioning, complementary to 13AMP003 large-dynamic-range amplifier. Wide-bandwidth amplification of fast optical-detector signals in photonics labs. Wide bandwidth amplifier CVI Melles Griot 13AMP family Companion to 13AMP003 large dynamic range Photonics detector conditioning Laboratory analog amplifier Fast signal gain Instrument Type: Wide bandwidth amplifier



MODEL

**CVI Melles Griot
13AMP005**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

13AMP005

LISTING

<https://aumictechlabs.com/products/13amp005-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The CVI Melles Griot 13AMP005 is a general-purpose transimpedance amplifier engineered for photodiode signal detection in both photovoltaic and photoconductive operating modes. This compact instrument converts input photocurrent to proportional voltage output across five programmable gain settings, delivering $\pm 1\%$ measurement accuracy across a 100 pA to 2 mA dynamic range. Technical Specifications Transimpedance gain spans five decades from 10^3 V/A to 10^7 V/A, selectable via front-panel 5-position range switch covering 200 nA to 2 mA. Frequency response extends DC to 5 MHz at the minimum gain setting (10^3 V/A). Input detection capability resolves photocurrents from 100 pA to 2 mA with $\pm 1\%$ accuracy maintained across all ranges. Bias adjustment provides ± 10 V with 1 V step resolution. Monitor output delivers ± 2 V into $50\ \Omega$ termination or ± 4 V unterminated. Output impedance is $50\ \Omega$ via BNC connector. Offset current adjustment supports ± 50 mA (high range) and ± 5 mA (low range) for background null operations. Power input accepts switch-selectable 115 Vac or 230 Vac operation at 50–60 Hz. Display features a $3\frac{1}{2}$ -digit backlit LCD indicating photocurrent and active range. Physical dimensions measure 133 mm W $\times$ 83 mm H $\times$ 140 mm D. Operating temperature range: $+10^\circ\text{C}$ to $+35^\circ\text{C}$; storage: -40°C to $+55^\circ\text{C}$. Key Features Five-decade variable transimpedance gain from 10^3 to 10^7 V/A DC to 5 MHz bandwidth at 10^3 V/A gain setting Detects photocurrents spanning 100 pA to 2 mA ± 10 V bias adjustment in 1 V increments Front-panel offset nulling for background suppression Dual voltage supply (115/230 Vac) operation BNC signal monitor output for external data acquisition Portable $5.25 \times 3.25 \times 5.5$ inch form factor Typical Applications Photodiode signal conditioning in spectroscopy, optical measurement, and sensor interface systems requiring wide dynamic range current-to-voltage conversion. Suitable for laboratory research and industrial instrumentation where variable gain and bias control optimize detection of low-level optical signals. Compatibility & Integration Designed specifically for operating Melles Griot silicon photodiodes in both photovoltaic and photoconductive configurations. All inputs and outputs employ BNC connectors; rear-panel banana jack provides ground connection.

13AMP005 Characteristics / Specifications

PARAMETER	VALUE
Model	13AMP005
Instrument Type	Wide bandwidth amplifier
Manufacturer	CVI Melles Griot
Literature	CVI Melles Griot 13AMP005 listings
Family	CVI Melles Griot 13AMP amplifiers
Brand Lineage	Melles Griot CVI
Form Factor	laboratory analog amplifier
System Role	wideband gain
Use Case	fast optical detector conditioning
Documentation Type	OEM 13AMP005 listing
Year Class	13AMP005
Application Class	analog amplification
Vendor Path	CVI Melles Griot
Related Dynamic Range	13AMP003 large dynamic range amplifier
Documentation Class	OEM 13AMP catalog
Control Class	analog amplifier
Companion Role	Melles Griot photonics amplifiers
Operating Mode	analog gain
Instrument Class	amplifier
Bandwidth Class	wide bandwidth
Gain Class	per 13AMP005 data sheet
Input Class	analog
Output Class	analog
Noise Class	per 13AMP005 data sheet
Enclosure Class	13AMP chassis

PARAMETER	VALUE
Power Class	laboratory amplifier PSU
Slew Class	per 13AMP005 data sheet
Bandwidth	amplifier

13AMP005 Specifications

PARAMETER	VALUE
CVI Melles Griot 13AMP005 Wide Bandwidth Amplifier	Overview
Wide bandwidth amplifier	CVI Melles Griot 13AMP family
Technical Specifications	Model: 13AMP005
Notes	From CVI Melles Griot 13AMP005 listings (wide-bandwidth amplifier). Gain, bandwidth, and noise are on the 13AMP005 data sheet.

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	13AMP005
Instrument Type	Wide bandwidth amplifier
Manufacturer	CVI Melles Griot
Literature	CVI Melles Griot 13AMP005 listings
Family	CVI Melles Griot 13AMP amplifiers
Brand Lineage	Melles Griot CVI
Form Factor	laboratory analog amplifier
System Role	wideband gain
Use Case	fast optical detector conditioning
Documentation Type	OEM 13AMP005 listing
Year Class	13AMP005
Application Class	analog amplification
Vendor Path	CVI Melles Griot
Related Dynamic Range	13AMP003 large dynamic range amplifier
Documentation Class	OEM 13AMP catalog
Control Class	analog amplifier
Companion Role	Melles Griot photonics amplifiers
Operating Mode	analog gain
Instrument Class	amplifier
Bandwidth Class	wide bandwidth
Gain Class	per 13AMP005 data sheet
Input Class	analog
Output Class	analog
Noise Class	per 13AMP005 data sheet
Enclosure Class	13AMP chassis
Power Class	laboratory amplifier PSU

PARAMETER	VALUE
-----------	-------

Slew Class	per 13AMP005 data sheet
------------	-------------------------

Notes

From CVI Melles Griot 13AMP005 listings (wide-bandwidth amplifier). Gain, bandwidth, and noise are on the 13AMP005 data sheet.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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