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**Data Sheet**

August 15, 2026

FLC ELECTRONICS

## FLC Electronics F10A

FLC Electronics Pendulum F10A plus or minus 100 V 1 MHz Linear Amplifier The F10A is a single-channel high-voltage linear amplifier with fixed gain 10. OEM Pendulum F10A datasheet (21 Dec 2018 / Sept 2020) lists plus or minus 100 V output, DC to about 1 MHz, 185 mA continuous, about 30 W, slew about 400 V/us (400 pF load limit including cable about 100 pF/m), gain 10.0066 plus or minus 0.18 percent at DC, input 1 MOhm || 30 pF, output less than 0.1 ohm linear, nominal input plus or minus 10 V, input microfuse 15 mA Littelfuse 272.015 (about 46 ohm good), isolated BNC output, operate 0 to 30 C after 15 min at 23 plus or minus 5 C, store 0 to 60 C, RH to 90 percent operate / 30-50 percent store, mains 100/110 or 220/230 V 50/60 Hz, fuses 3.15 A slow (100/110) or 2 A slow (220/230), 112 × 255 × 316 mm, 4 kg, origin Poland. The F10A is a single-channel high-voltage linear amplifier with fixed gain 10. OEM Pendulum F10A datasheet (21 Dec 2018 / Sept 2020) lists plus or minus 100 V output, DC to about 1 MHz, 185 mA continuous, about 30 W, slew about 400 V/us (400 pF load limit including cable about 100 pF/m), gain 10.0066 plus or minus 0.18 percent at DC, input 1 MOhm || 30 pF, output less than 0.1 ohm linear, nominal input plus or minus 10 V, input microfuse 15 mA Littelfuse 272.015 (about 46 ohm good), isolated BNC output, operate 0 to 30 C after 15 min at 23 plus or minus 5 C, store



MODEL

**FLC Electronics  
F10A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**F10A**

LISTING

<https://aumictechlabs.com/products/f10a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

**This unit**

The FLC Electronics F10A is a single-channel, broadband linear amplifier engineered for laboratory and industrial applications demanding precise high-voltage signal amplification. With a fixed gain of 10×, it accepts input signals up to ±10 V and delivers bipolar output spanning –100 V to +100 V, making it ideal for driving piezo actuators, MEMS devices, OLEDs, and liquid crystal displays. The amplifier maintains linear operation from DC through approximately 1 MHz at maximum voltage swing, with a slew rate of 400 V/μs and output impedance below 0.1 Ω in linear mode.

Technical Specifications

Gain: 10.0066 ± 0.18% at DC

Input Voltage Range: ±10 V maximum

Output Voltage Range: –100 V to +100 V (bipolar)

Output Current (Continuous): 185 mA with current limiting

Maximum Output Power: Approximately 30 W

Bandwidth: DC to ~1 MHz (at maximum V<sub>pp</sub>)

Slew Rate: 400 V/μs (factory setting, adjustable on request)

Input Impedance: 1 MΩ || 30 pF

Output Impedance: < 0.1 Ω (linear mode)

Dimensions: 112 mm (H) × 255 mm (W) × 316 mm (D)

Weight: 4 kg

Power Supply: 100/110 V or 220/230 V, 50/60 Hz (3.15 A or 2 A slow fuse, respectively)

Operating Temperature: 0°C to 30°C

Storage Temperature: 0°C to 60°C

Key Features

- Fixed 10× voltage gain enabling ±10 V source to generate ±100 V output
- Capacitive load capability limited by slew rate - approximately 400 pF at factory setting (cable capacitance included)
- Current-limiting circuit protects against accidental short circuits
- High input impedance (1 MΩ) minimizes source loading
- Isolated BNC output connector for safety compliance
- Input protection via 15 mA micro-fuse; spare included

Typical Applications

- Piezoelectric actuator driving MEMS device control
- OLED panel testing and operation
- Liquid crystal display characterization
- General-purpose high-voltage signal amplification

Compatibility & Integration

Accepts resistive and small capacitive loads. Can drive small (mH) inductances in series with resistance but cannot drive purely inductive loads. Output signal monitoring via oscilloscope is recommended. Manufactured in Poland.

## F10A Characteristics / Specifications

| PARAMETER             | VALUE                                                        |
|-----------------------|--------------------------------------------------------------|
| Model                 | F10A                                                         |
| Instrument Type       | Single channel high voltage linear amplifier                 |
| Family                | FLC Electronics / Pendulum F-series                          |
| Output Voltage        | plus or minus 100 V                                          |
| Voltage Gain          | 10 times fixed (10.0066 plus or minus 0.18 percent at DC)    |
| Bandwidth             | DC to about 1 MHz                                            |
| Output Current        | 185 mA continuous maximum                                    |
| Output Power          | about 30 W                                                   |
| Slew Rate             | about 400 V/us                                               |
| Capacitive Load       | about 400 pF at factory slew (includes cable about 100 pF/m) |
| Input Impedance       | 1 MOhm in parallel with 30 pF                                |
| Output Impedance      | less than 0.1 ohm in linear mode                             |
| Input Voltage         | nominal plus or minus 10 V                                   |
| Input Fuse            | 15 mA Littelfuse 272.015 microfuse                           |
| Output Connector      | isolated BNC                                                 |
| Load Type             | resistive parallel capacitive; not purely inductive          |
| Operating Temperature | 0 C to 30 C (specs at 23 C plus or minus 5 C after 15 min)   |
| Storage Temperature   | 0 C to 60 C                                                  |
| Humidity Operating    | up to 90 percent                                             |
| Mains                 | 100/110 V or 220/230 V, 50/60 Hz                             |
| Mains Fuse            | 3.15 A slow (100/110 V) or 2 A slow (220/230 V)              |
| Dimensions            | 112 × 255 × 316 mm (HxWxL)                                   |
| Mass                  | 4 kg                                                         |
| Country Of Origin     | Poland                                                       |
| Manufacturer          | FLC Electronics / Pendulum Instruments                       |

PARAMETER

VALUE

Literature

Pendulum F10A broadband linear amplifier datasheet 21 December 2018

Humidity

Operating: up to 90 percent

# F10A Specifications

| PARAMETER                               | VALUE                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Applications                            | Piezo, MEMS, OLED, and liquid-crystal drive from a plus or minus 10 V generator up to plus or minus 100 V at 1 MHz class. |
| Key Features                            | Fixed x10, plus or minus 100 V, 185 mA                                                                                    |
| Output less than 0.1 ohm in linear mode | Isolated BNC, 15 mA input microfuse                                                                                       |
| Technical Specifications                | Model: F10A                                                                                                               |

## General Specifications & Supplementary Characteristics

| PARAMETER             | VALUE                                                                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature   | 0 C to 60 C                                                                                                                                                                                                               |
| Operating temperature | 0 C to 30 C (specs at 23 C plus or minus 5 C after 15 min)                                                                                                                                                                |
| Operating Temperature | 0 C to 30 C (specs at 23 C plus or minus 5 C after 15 min)                                                                                                                                                                |
| Humidity              | Operating: up to 90 percent                                                                                                                                                                                               |
| Humidity Operating    | up to 90 percent                                                                                                                                                                                                          |
| Mains                 | 100/110 V or 220/230 V, 50/60 Hz                                                                                                                                                                                          |
| Mains Fuse            | 3.15 A slow (100/110 V) or 2 A slow (220/230 V)                                                                                                                                                                           |
| Dimensions            | 112 × 255 × 316 mm (HxWxL)                                                                                                                                                                                                |
| Mass                  | 4 kg                                                                                                                                                                                                                      |
| Country Of Origin     | Poland                                                                                                                                                                                                                    |
| Manufacturer          | FLC Electronics / Pendulum Instruments                                                                                                                                                                                    |
| Literature            | Pendulum F10A broadband linear amplifier datasheet 21 December 2018 Notes From Pendulum Instruments F10A datasheet. Queue brand FLC Electronics is the original name; Pendulum is the current publisher of the same F10A. |

# 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                 | F10A                                                                |
| Instrument Type       | Single channel high voltage linear amplifier                        |
| Family                | FLC Electronics / Pendulum F-series                                 |
| Output Voltage        | plus or minus 100 V                                                 |
| Voltage Gain          | 10 times fixed (10.0066 plus or minus 0.18 percent at DC)           |
| Bandwidth             | DC to about 1 MHz                                                   |
| Output Current        | 185 mA continuous maximum                                           |
| Output Power          | about 30 W                                                          |
| Slew Rate             | about 400 V/us                                                      |
| Capacitive Load       | about 400 pF at factory slew (includes cable about 100 pF/m)        |
| Input Impedance       | 1 MOhm in parallel with 30 pF                                       |
| Output Impedance      | less than 0.1 ohm in linear mode                                    |
| Input Voltage         | nominal plus or minus 10 V                                          |
| Input Fuse            | 15 mA Littelfuse 272.015 microfuse                                  |
| Output Connector      | isolated BNC                                                        |
| Load Type             | resistive parallel capacitive; not purely inductive                 |
| Operating Temperature | 0 C to 30 C (specs at 23 C plus or minus 5 C after 15 min)          |
| Storage Temperature   | 0 C to 60 C                                                         |
| Humidity Operating    | up to 90 percent                                                    |
| Mains                 | 100/110 V or 220/230 V, 50/60 Hz                                    |
| Mains Fuse            | 3.15 A slow (100/110 V) or 2 A slow (220/230 V)                     |
| Dimensions            | 112 x 255 x 316 mm (HxWxL)                                          |
| Mass                  | 4 kg                                                                |
| Country Of Origin     | Poland                                                              |
| Manufacturer          | FLC Electronics / Pendulum Instruments                              |
| Literature            | Pendulum F10A broadband linear amplifier datasheet 21 December 2018 |

#### Notes

From Pendulum Instruments F10A datasheet. Queue brand FLC Electronics is the original name; Pendulum is the current publisher of the same F10A.

### Available from Aumictech

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

Request a quote: [sales@aumictech.com](mailto: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.