





## HVA-10M-60-F **Datasheet**

## 10 MHz High Input Impedance Voltage Amplifier



eatures	•	Switchable Gain 40/60 dB (x100 / x1,000)

Bandwidth DC ... 10 MHz

High Input Impedance 1  $M\Omega$ Switchable AC/DC Coupling

Applications **Oscilloscope and Transient Recorder Preamplifier** Photomultiplier and Microchannel Plate Amplifier

Signal Booster for Optical Receivers and Current Amplifiers

**Time-Resolved Pulse and Transient Measurements** 

Specifications **Test Conditions**  $Vs = \pm 15 V$ , Ta = 25°C

Gain 40/60 dB switchable (@ 50  $\Omega$  load) Gain

Gain Accuracy  $\pm 0.2 dB$ 

Lower Cut-Off Frequency (-3 dB) DC/1 Hz switchable Frequency Response 10 MHz

Upper Cut-Off Frequency (-3 dB) Rise/Fall Time (10% - 90%) 35 ns

Input Impedance 1 MΩ II 15 pF Input

Input Voltage Noise 4.7 nV/√Hz (@ 2 MHz) 100 μV peak-peak Intregrated Input Noise 2 pA 250 μV max. Input Bias Current

Input Offset Voltage 2 μV/°C Input Voltage Drift

50  $\Omega$  (terminate with 50  $\Omega$  load for best performance) Output Output Impedance

Output Voltage  $\pm$  3.5 V (@ 50  $\Omega$  load, for linear amplification) Max. Output Current 100 mA

Output Offset Trimmer Range  $\pm\,500~\text{mV}$ 500 V/μs (@ 50 Ω load) Slew Rate

Power Supply

Supply Voltage  $\pm\,15\,V$ Supply Current ± 70 mA typ. (depends on operating conditions,

recommended power supply capability min. ± 150 mA)

Weight 200 g (0.5 lbs) Case

AlMg4.5Mn, nickel-plated Material

SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

DE-HVA-10M-60-F\_R5/JM/25FEB2019

France

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## HVA-10M-60-F **Datasheet** 10 MHz High Input Impedance **Voltage Amplifier** Specifications (continued) Temperature Range Storage Temperature - 40 ... + 100 °C $0 \dots + 60 \, ^{\circ}\mathrm{C}$ Operating Temperature Absolute Maximum Ratings Power Supply Voltage ± 20 V Signal Input Voltage Transient Input Voltage + 5 V 200 V (out of a 200 pF Source) BNC Connectors BNC Output Power Supply LEMO series 1S, 3-pin fixed socket + 15V - 15V Pin 1: Pin 2: Pin 3: GND Dimensions HVA-10M-60 27 Specifications are subject to change without notice. Information provided herein is believed to be accurate and reliable. However, no responsibility is assumed by FEMTO Messtechnik GmbH for its use, nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of FEMTO Messtechnik GmbH. Product names mentioned may also be trademarks used here for identification purposes only. © by FEMTO Messtechnik GmbH · Printed in Germany SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

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