



Datasheet HVA-10M-60-B

10 MHz Low-Noise Voltage Amplifier



Features	Bandwidth DC 10 MHzLow Input Noise of 0.9 nV/	• Low Input Noise of 0.9 nV/√Hz	
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 = ± 15 V, Ta = 25°C	
Gain	Gain Gain Accuracy	40/60 dB switchable \pm 0.2 dB	
Frequency Response	Lower Cut-Off Frequency (-3 dB) Upper Cut-Off Frequency (-3 dB) Rise/Fall Time (10% - 90%)	DC/1 kHz switchable 10 MHz 35 ns	
Input	Input Impedance Input Voltage Noise Intregrated Input Noise Input Bias Current Input Offset Voltage Input Voltage Drift	50 Ω II 12 pF 0.9 nV/√Hz (@ 2 MHz, 60 dB gain) 1.8 nV/√Hz (@ 2 MHz, 40 dB gain) 20 μV peak-peak (@ 60 dB gain) 50 μV peak-peak (@ 40 dB gain) 18 μA 500 μV typ. 1 μV/°C	
Output	Output Impedance Output Voltage Max. Output Current Output Offset Trimmer Range Slew Rate	$50~\Omega$ (terminate with $50~\Omega$ load for best performance) $\pm~3.5~V$ (@ $50~\Omega$ load, for linear amplification) $100~\rm mA$ $\pm~500~\rm mV$ $500~\rm V/\mu s$ (@ $50~\Omega$ load)	
Power Supply	Supply Voltage Supply Current	\pm 15 V \pm 70 mA typ. (depends on operating conditions, recommended power supply capability min. \pm 150 mA)	
Case	Weight Material	200 g (0.5 lbs) AlMg4.5Mn, nickel-plated	

SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

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Datasheet HVA-10M-60-B 10 MHz Low-Noise **Voltage Amplifier** Specifications (continued) - 40 ... + 100 °C Temperature Range Storage Temperature 0 ... + 60 °C Operating Temperature Absolute Maximum Ratings ± 20 V Power Supply Voltage $\pm\,5\,V$ Input Voltage Connectors Input **BNC BNC** Output Power Supply LEMO series 1S, 3-pin fixed socket Pin 1: + 15VPin 2: - 15V GND Pin 3: **Dimensions** HVA-10M-60 27 all measures in mm unless otherwise noted

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