Datasheet HVA-10M-60-F

10 MHz High Input Impedance Voltage Amplifier



Features	 Switchable Gain 40/60 dB (x100 / x1,000) Bandwidth DC 10 MHz High Input Impedance 1 MΩ Switchable AC/DC Coupling 		
Applications Specifications	 Oscilloscope and Transient Recorder Preamplifier Photomultiplier and Microchannel Plate Amplifier Signal Booster for Optical Receivers and Current Amplifiers Time-Resolved Pulse and Transient Measurements 		
	Test Conditions	Vs = ± 15 V, Ta = 25°C	
Gain	Gain Gain Accuracy	40/60 dB switchable (@ 50 Ω load) \pm 0.2 dB	
Frequency Response	Lower Cut-Off Frequency (-3 dB) Upper Cut-Off Frequency (-3 dB) Rise/Fall Time (10% - 90%)		
Input	Input Impedance Input Voltage Noise Intregrated Input Noise Input Bias Current Input Offset Voltage Input Voltage Drift	1 MΩ II 15 pF 4.7 nV/√Hz (@ 2 MHz) 100 μV peak-peak 2 pA 250 μV max. 2 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

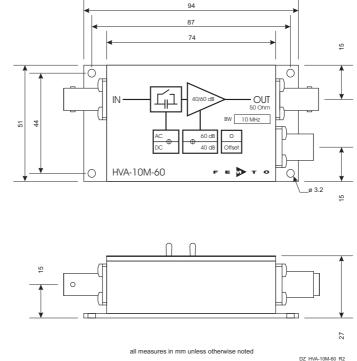
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Specifications (continued) Temperature Range	Storage Temperature Operating Temperature	- 40 + 100 °C 0 + 60 °C
Absolute Maximum Ratings	Power Supply Voltage Signal Input Voltage Transient Input Voltage	±20 V ±5 V 200 V (out of a 200 pF Source)
Connectors	Input Output Power Supply	BNC LEMO series 1S, 3-pin fixed socket Pin 1: + 15V Pin 2: - 15V Pin 3: GND PIN 2 PIN 3 PIN 3 GND
Dimensions		94 87 74



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