

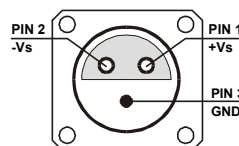
10 MHz Low-Noise Voltage Amplifier



Features	<ul style="list-style-type: none"> • Switchable Gain 40/60 dB (x100 / x1,000) • Bandwidth DC ... 10 MHz • Low Input Noise of 0.9 nV/√Hz • Switchable AC/DC Coupling 	
Applications	<ul style="list-style-type: none"> • 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	<p>Test Conditions</p> <p>Gain</p> <p>Frequency Response</p> <p>Input</p> <p>Output</p> <p>Power Supply</p> <p>Case</p>	<p>$V_s = \pm 15\text{ V}$, $T_a = 25^\circ\text{C}$</p> <p>40/60 dB switchable ± 0.2 dB</p> <p>DC/1 kHz switchable 10 MHz 35 ns</p> <p>50 Ω 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</p> <p>50 Ω (terminate with 50 Ω load for best performance) ± 3.5 V (@ 50 Ω load, for linear amplification) 100 mA ± 500 mV 500 V/μs (@ 50 Ω load)</p> <p>± 15 V ± 70 mA typ. (depends on operating conditions, recommended power supply capability min. ± 150 mA)</p> <p>200 g (0.5 lbs) AlMg4.5Mn, nickel-plated</p>

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Specifications (continued)		
Temperature Range	Storage Temperature	- 40 ... + 100 °C
	Operating Temperature	0 ... + 60 °C
Absolute Maximum Ratings	Power Supply Voltage	± 20 V
	Input Voltage	± 5 V
Connectors	Input	BNC
	Output	BNC
	Power Supply	LEMO series 1S, 3-pin fixed socket
	Pin 1:	+ 15V
	Pin 2:	- 15V
	Pin 3:	GND



Dimensions	<p style="text-align: center;">all measures in mm unless otherwise noted</p> <p style="text-align: right;">DZ_HVA-10M-60_R2</p>
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