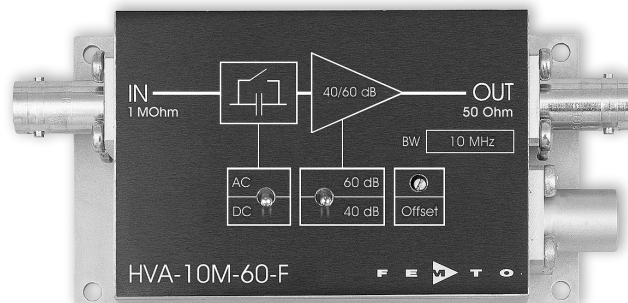


10 MHz High Input Impedance Voltage Amplifier

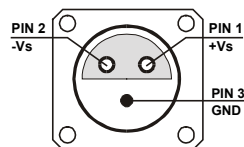


Features	<ul style="list-style-type: none"> • Gain 40/60 dB (x100/x1,000) switchable • Bandwidth DC ... 10 MHz • High Input Impedance 1 MΩ • Switchable AC/DC Coupling 	
Applications	<ul style="list-style-type: none"> • Oscilloscope and Transient-Recorder Preamplifier • Photomultiplier and Microchannel-Plate Amplifier • Signal Booster for Optical Receivers and Current Amplifiers • Time-Resolved Pulse and Transient Measurements 	
Specifications	<p>Test Conditions</p> <p>Gain</p> <p>Gain Accuracy</p> <p>Frequency Response</p> <p>Lower Cut-Off Frequency (-3 dB)</p> <p>Upper Cut-Off Frequency (-3 dB)</p> <p>Rise/Fall Time (10% - 90%)</p> <p>Input</p> <p>Input Impedance</p> <p>Input Voltage Noise</p> <p>Input Bias Current</p> <p>Input Offset Voltage</p> <p>Input Voltage Drift</p> <p>Output</p> <p>Output Impedance</p> <p>Output Voltage</p> <p>Max. Output Current</p> <p>Output Offset Trimmer Range</p> <p>Slew Rate</p> <p>Power Supply</p> <p>Supply Voltage</p> <p>Supply Current</p> <p>Case</p> <p>Weight</p> <p>Material</p> <p>Temperature Range</p> <p>Storage Temperature</p> <p>Operating Temperature</p>	<p>$V_s = \pm 15 \text{ V}, T_a = 25^\circ\text{C}$</p> <p>40/60 dB switchable</p> <p>$\pm 0.2 \text{ dB}$</p> <p>DC/1 Hz switchable</p> <p>10 MHz</p> <p>35 ns</p> <p>1 MΩ 15 pF</p> <p>4.7 nV/√Hz (@ 2 MHz, 60 dB)</p> <p>2 pA</p> <p>250 μV max.</p> <p>2 μV/°C</p> <p>50 Ω</p> <p>7 Vpp (@ 50 Ω load, for linear Amplification)</p> <p>100 mA</p> <p>$\pm 1 \text{ V}$</p> <p>1,000 V/μs (@ 60 dB, 50 Ω load)</p> <p>$\pm 15 \text{ V}$</p> <p>$\pm 70 \text{ mA typ. (no-signal)}$ recommended Power Supply Capability minimum 150 mA</p> <p>200 g (0.5 lbs)</p> <p>AlMg4.5Mn, nickel-plated</p> <p>- 40 ... + 100 °C</p> <p>0 ... + 60 °C</p>

10 MHz High Input Impedance Voltage Amplifier

Absolute Maximum Ratings	Power Supply Voltage	± 20 V
	Input Voltage	± 5 V
	Transient Input Voltage	200 V (@ 200 pF Source)

Connectors	Input	BNC
	Output	BNC
	Power Supply	LEMO Series 1S, 3-pin fixed Socket Pin 1: + 15V Pin 2: - 15V Pin 3: GND



Dimensions	
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DZ-HVA-10M-60_1

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