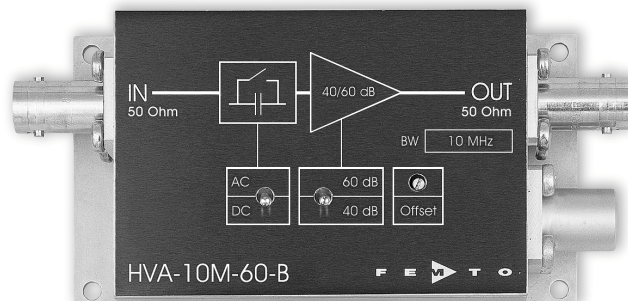
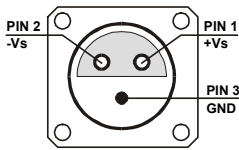


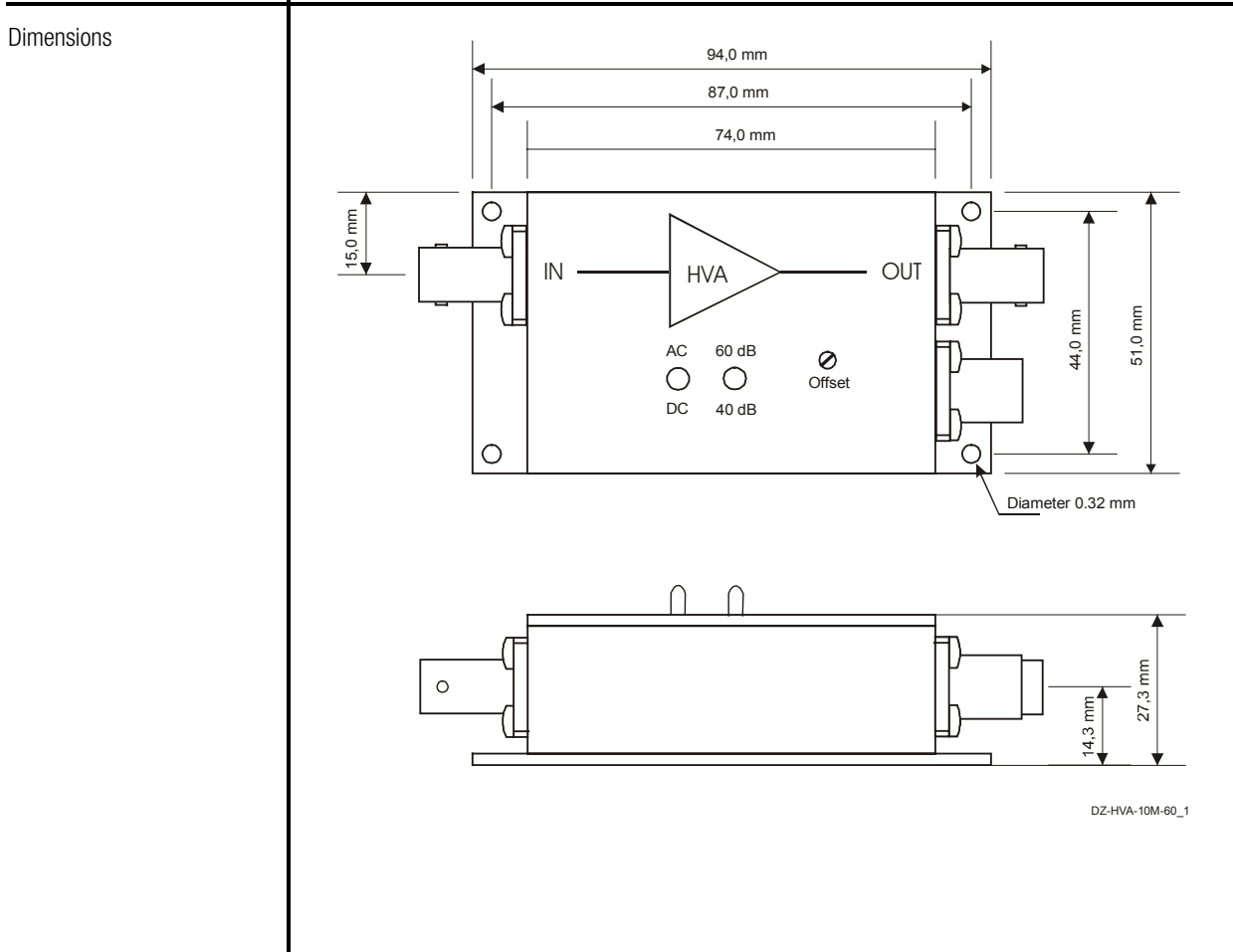
10 MHz Low-Noise Voltage Amplifier



Features	<ul style="list-style-type: none"> • Gain 40/60 dB (x100/x1,000) switchable • Bandwidth DC ... 10 MHz • 0.9 nV/√Hz Input Noise • 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 kHz switchable</p> <p>10 MHz</p> <p>35 ns</p> <p>$50 \Omega \parallel 12 \text{ pF}$</p> <p>0.9 nV/√Hz (@ 2 MHz, 60 dB)</p> <p>18 μA</p> <p>500 μV typ.</p> <p>1 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 (@ 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>

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<p>Absolute Maximum Ratings</p>	<p>Power Supply Voltage ± 20 V Input Voltage ± 5 V</p>
<p>Connectors</p>	<p>Input BNC Output BNC Power Supply LEMO Series 1S, 3-pin fixed Socket Pin 1: + 15V Pin 2: - 15V Pin 3: GND</p> 



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