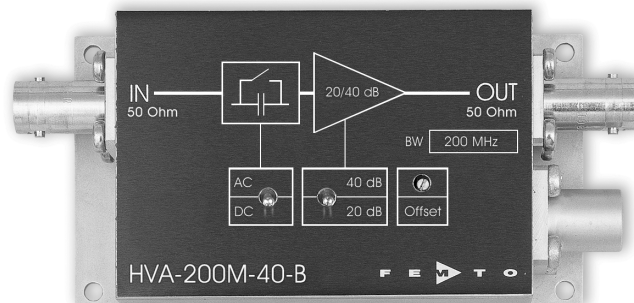


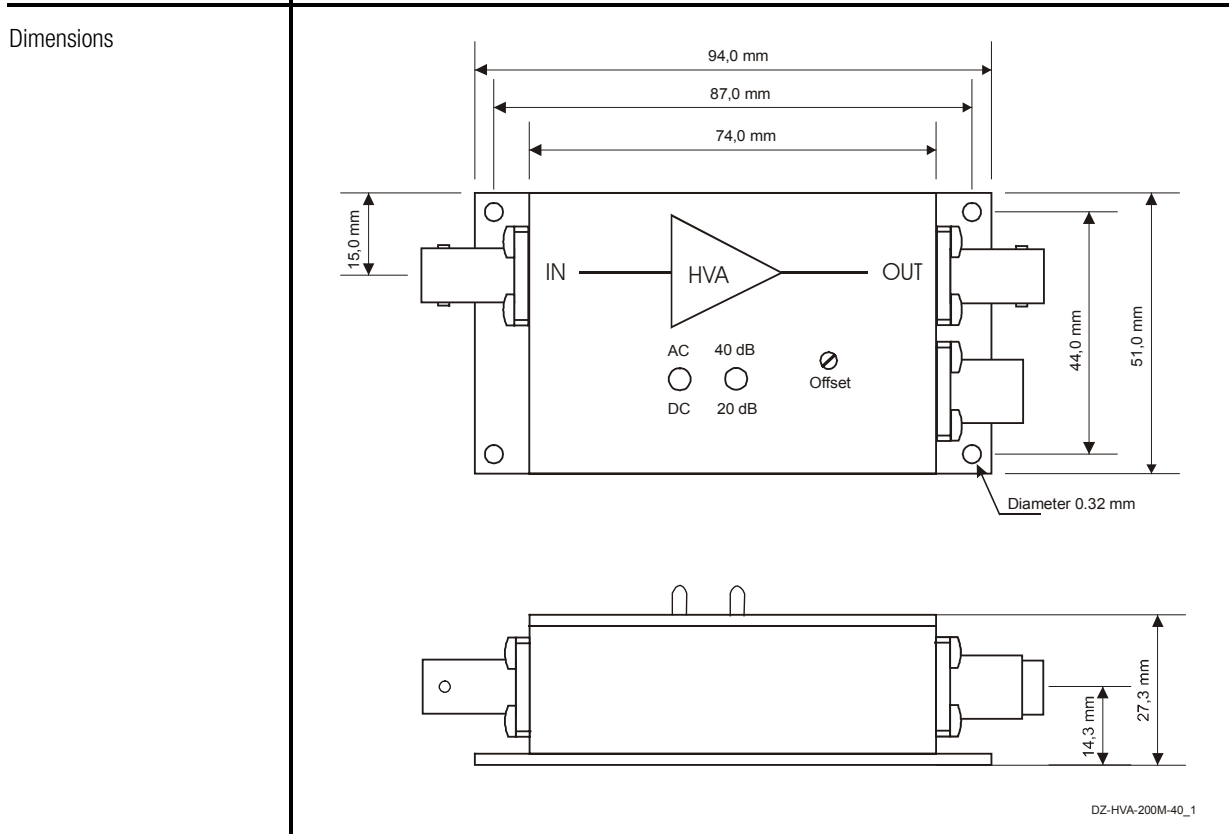
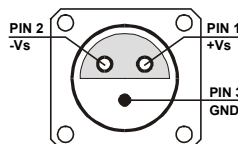
## 200 MHz Low-Noise Voltage Amplifier



Features	<ul style="list-style-type: none"> <li>• <b>Gain 20/40 dB (x10/x100) switchable</b></li> <li>• <b>Bandwidth DC ... 200 MHz</b></li> <li>• <b>1.0 nV/√Hz Input Noise</b></li> <li>• <b>Switchable AC/DC Coupling</b></li> </ul>	
Applications	<ul style="list-style-type: none"> <li>• <b>Oscilloscope and Transient-Recorder Preamplifier</b></li> <li>• <b>Photomultiplier and Microchannel-Plate Amplifier</b></li> <li>• <b>Signal Booster for Optical Receivers and Current Amplifiers</b></li> <li>• <b>Time-Resolved Pulse and Transient Measurements</b></li> </ul>	
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><math>V_s = \pm 15 \text{ V}, T_a = 25^\circ\text{C}</math></p> <p>20/40 dB switchable</p> <p><math>\pm 0.2 \text{ dB}</math></p> <p>DC/1 kHz switchable</p> <p>200 MHz</p> <p>1.8 ns</p> <p><math>50 \Omega \parallel 12 \text{ pF}</math></p> <p>1.0 nV/√Hz (@ 50 MHz, 40 dB)</p> <p>3.5 nV/√Hz (@ 50 MHz, 20 dB)</p> <p>20 μA</p> <p>500 μV typ.</p> <p>1 μV/°C</p> <p>50 Ω</p> <p>2 Vpp (@ 50 Ω load, for linear Amplification)</p> <p>60 mA</p> <p><math>\pm 100 \text{ mV}</math></p> <p>500 V/μs (@ 20 dB, 50 Ω load)</p> <p>1,000 V/μs (@ 40 dB, 50 Ω load)</p> <p><math>\pm 15 \text{ V}</math></p> <p><math>\pm 70 \text{ mA typ. (no-signal)}</math></p> <p>recommended Power Supply Capability minimum 150 mA</p> <p>200 g (0.5 lbs)</p> <p>AlMg4.5Mn, nickel-plated</p>

## 200 MHz Low-Noise Voltage Amplifier

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



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