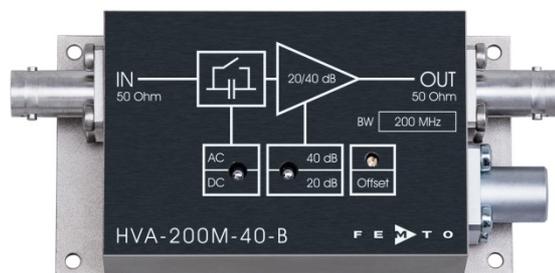
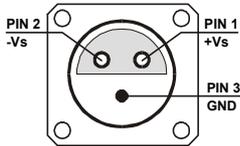


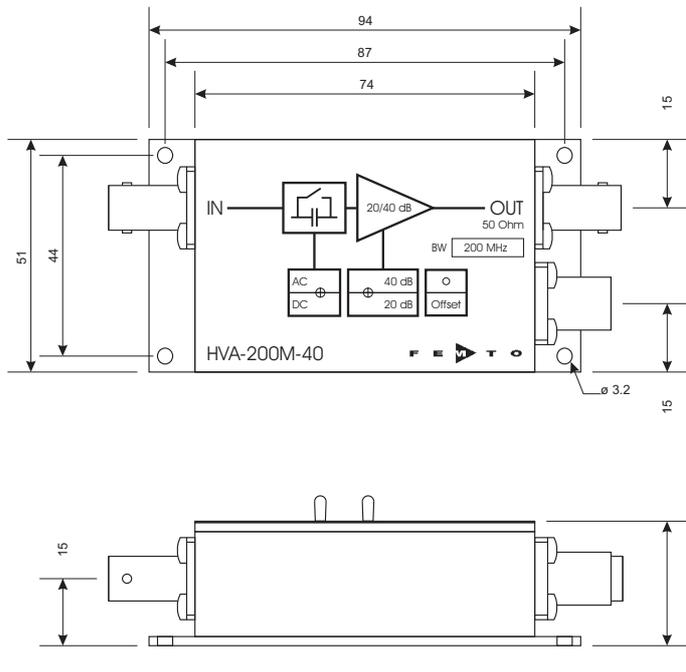
200 MHz Low-Noise Voltage Amplifier



Features	<ul style="list-style-type: none"> • Switchable Gain 20/40 dB (x10 / x100) • Bandwidth DC ... 200 MHz • Low Input Noise of 1.2 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>20/40 dB switchable ± 0.2 dB</p> <p>DC/1 kHz switchable 200 MHz 1.8 ns</p> <p>50 Ω 12 pF 1.2 nV/√Hz (@ 50 MHz, 40 dB gain) 3.5 nV/√Hz (@ 50 MHz, 20 dB gain) 150 μV peak-peak (@ 40 dB gain) 400 μV peak-peak (@ 20 dB gain) 20 μA 500 μV typ. 1 μV/°C</p> <p>50 Ω (terminate with 50 Ω load for best performance) ± 1 V (@ 50 Ω load, for linear amplification) 60 mA ± 100 mV 500 V/μs (@ 20 dB, 50 Ω load) 1,000 V/μs (@ 40 dB, 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)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Temperature Range</td> <td style="padding: 2px;">Storage Temperature</td> <td style="padding: 2px;">- 40 ... + 100 °C</td> </tr> <tr> <td></td> <td style="padding: 2px;">Operating Temperature</td> <td style="padding: 2px;">0 ... + 60 °C</td> </tr> </table>	Temperature Range	Storage Temperature	- 40 ... + 100 °C		Operating Temperature	0 ... + 60 °C						
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Absolute Maximum Ratings	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Power Supply Voltage</td> <td style="padding: 2px;">± 20 V</td> </tr> <tr> <td style="padding: 2px;">Input Voltage</td> <td style="padding: 2px;">± 5 V</td> </tr> </table>	Power Supply Voltage	± 20 V	Input Voltage	± 5 V								
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Output	BNC												
Power Supply	LEMO series 1S, 3-pin fixed socket												
	Pin 1: + 15V												
	Pin 2: - 15V												
	Pin 3: GND												

Dimensions	<div style="text-align: center;">  </div> <p style="text-align: center; font-size: small;">all measures in mm unless otherwise noted</p> <p style="text-align: right; font-size: x-small;">DZ_HVA-200M-40_R2</p>
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