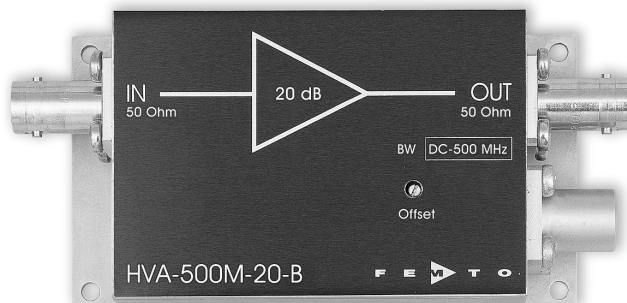


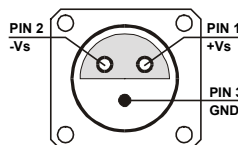
True DC-Coupled 500 MHz Low Noise Voltage Amplifier



<p>Features</p>	<ul style="list-style-type: none"> • Gain 20 dB (x10) • Bandwidth DC ... 500 MHz • True DC-Coupling, Output Offset Voltage Adjustable • 3.4 nV/√Hz Input Noise 	
<p>Applications</p>	<ul style="list-style-type: none"> • Oscilloscope and Transient-Recorder Preamplifier • Ideal for Analyzing Digital Signals (No Baseline Shift at any Digital Code) • Photomultiplier and Microchannel-Plate Amplifier • Signal Booster for Optical Receivers and Current Amplifiers • Time-Resolved Pulse and Transient Measurements 	
<p>Specifications</p>	<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 dB (@ 50 Ω load) ± 0.2 dB</p> <p>DC 500 MHz (± 10 %) 750 ps</p> <p>50 Ω 3 pF 3.4 nV/√Hz (@ 200 MHz) 0.5 mV peak-peak 15 μA typ. 1 mV typ. 10 μV / °C</p> <p>50 Ω (terminate with 50 Ω load for best performance) 2 Vpp (@ 50 Ω load, for linear amplification) 100 mA 0 V, adjustable by offset trimpot within ± 70 mV 2,600 V/μs (@ 50 Ω load)</p> <p>± 15 V ± 40 mA typ. (depends on operating conditions, recommended power supply capability minimum ± 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		
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DZ-HVA-500M-20-B_1

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