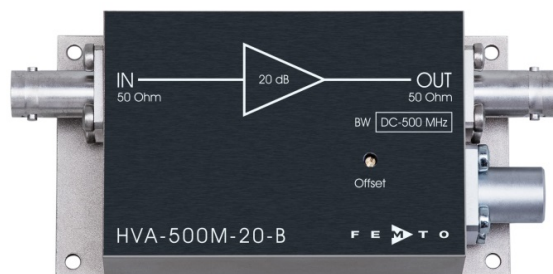


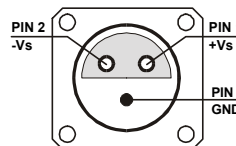
True DC-Coupled 500 MHz Low-Noise Voltage Amplifier



Features	<ul style="list-style-type: none"> • Gain 20 dB (x10) • Bandwidth DC ... 500 MHz • True DC-Coupling, Adjustable Output Offset Voltage • 3.0 nV/√Hz Input Noise 	
Applications	<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 	
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 dB (@ 50 Ω load) ± 0.2 dB</p> <p>DC 500 MHz (± 10 %) 750 ps</p> <p>50 Ω 3 pF 3.0 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) ± 1 V (@ 50 Ω load, for linear amplification) 100 mA ± 100 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 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



Dimensions	<p style="text-align: center;">all measures in mm unless otherwise noted</p> <p style="text-align: right;">DZ_HVA-500M-20_R2</p>
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