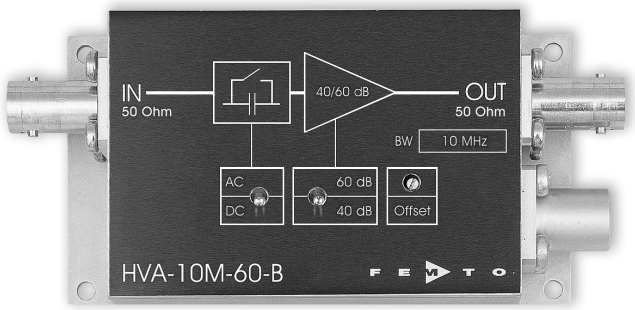
10 MHz Low-Noise Voltage Amplifier



Features	• **Gain 40/60 dB (x100/x1,000) switchable** • **Bandwidth DC ... 10 MHz** • **0.9 nV/√Hz Input Noise** • **Switchable AC/DC Coupling**		
Applications	• **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	Test Conditions	Vs = ±15 V, Ta = 25°C	
Gain	Gain	40/60 dB switchable	
	Gain Accuracy	± 0.2 dB	
Frequency Response	Lower Cut-Off Frequency (-3 dB)	DC/1 kHz switchable	
	Upper Cut-Off Frequency (-3 dB)	10 MHz	
	Rise/Fall Time (10% - 90%)	35 ns	
Input	Input Impedance	50 Ω ll 12 pF	
	Input Voltage Noise	0.9 nV/√Hz (@ 2 MHz, 60 dB)	
	Input Bias Current	18 µA	
	Input Offset Voltage	500 µV typ.	
	Input Voltage Drift	1 µV/°C	
Output	Output Impedance	50 Ω	
	Output Voltage	7 Vpp (@ 50 Ω load, for linear Amplification)	
	Max. Output Current	100 mA	
	Output Offset Trimmer Range	± 1 V	
	Slew Rate	1,000 V/µs (@ 50 Ω load)	
Power Supply	Supply Voltage	± 15 V	
	Supply Current	± 70 mA typ. (no-signal) recommended Power Supply Capability minimum 150 mA	
Case	Weight	200 g (0.5 lbs)	
	Material	AlMg4.5Mn, nickel-plated	
Temperature Range	Storage Temperature	- 40 ... + 100 °C	
	Operating Temperature	0 ... + 60 °C	

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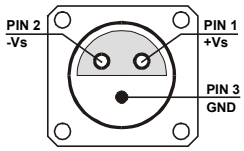
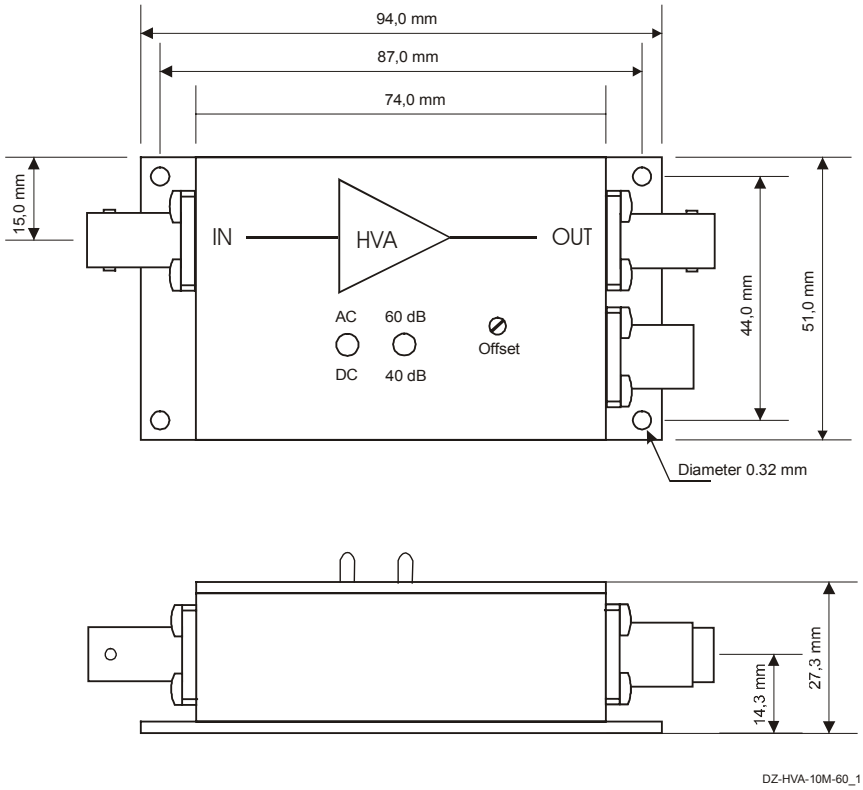
Absolute Maximum Ratings	Power Supply Voltage	± 20 V
	Input Voltage	± 5 V
Connectors	Input	BNC
	Output	BNC
	Power Supply	LEMO Series 1S, 3-pin fixed Socket Pin 1: + 15V Pin 2: - 15V Pin 3: GND



Dimensions



FEMTO Messtechnik GmbH
Paul-Lincke-Ufer 34
D-10999 Berlin · Germany
Tel.: +49 (0)30 – 4 46 93 86
Fax: +49 (0)30 – 4 46 93 88
e-mail: info@femto.de
http://www.femto.de