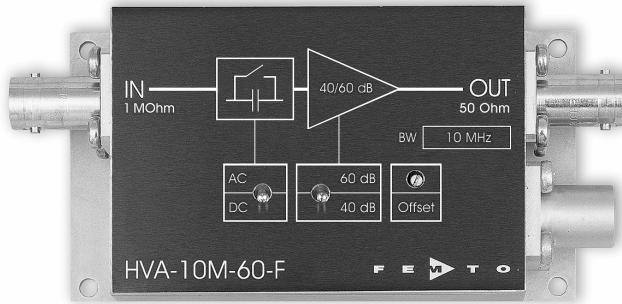




Datasheet

HVA-10M-60-F

10 MHz High Input Impedance Voltage Amplifier

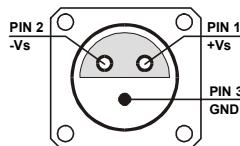


Features	<ul style="list-style-type: none">• Switchable Gain 40/60 dB (x100 / x1,000)• Bandwidth DC ... 10 MHz• High Input Impedance 1 MΩ• Switchable AC/DC Coupling	
Applications	<ul style="list-style-type: none">• Oscilloscope and Transient Recorder Preamplifier• Photomultiplier and Microchannel Plate Amplifier• Signal Booster for Optical Receivers and Current Amplifiers• Time-Resolved Pulse and Transient Measurements	
Specifications	<i>Test Conditions</i>	$V_s = \pm 15 V, T_a = 25^\circ C$
Gain	Gain	40/60 dB switchable
	Gain Accuracy	± 0.2 dB
Frequency Response	Lower Cut-Off Frequency (-3 dB)	DC/1 Hz switchable
	Upper Cut-Off Frequency (-3 dB)	10 MHz
	Rise/Fall Time (10% - 90%)	35 ns
Input	Input Impedance	$1 M\Omega \parallel 15 pF$
	Input Voltage Noise	4.7 nV/ \sqrt{Hz} (@ 2 MHz)
	Integrated Input Noise	100 μV peak-peak
	Input Bias Current	2 pA
	Input Offset Voltage	250 μV max.
	Input Voltage Drift	2 $\mu V/^{\circ}C$
Output	Output Impedance	50Ω (terminate with 50Ω load for best performance)
	Output Voltage	$\pm 3.5 V$ (@ 50Ω load, for linear amplification)
	Max. Output Current	100 mA
	Output Offset Trimmer Range	± 500 mV
	Slew Rate	500 V/ μs (@ 50Ω load)
Power Supply	Supply Voltage	$\pm 15 V$
	Supply Current	± 70 mA typ. (depends on operating conditions, recommended power supply capability min. ± 150 mA)
Case	Weight	200 g (0.5 lbs)
	Material	AlMg4.5Mn, nickel-plated

Datasheet**HVA-10M-60-F**

10 MHz High Input Impedance Voltage Amplifier

Specifications (continued)		
Temperature Range	Storage Temperature Operating Temperature	- 40 ... + 100 °C 0 ... + 60 °C
Absolute Maximum Ratings	Power Supply Voltage Signal Input Voltage Transient Input Voltage	± 20 V ± 5 V 200 V (out of a 200 pF Source)
Connectors	Input Output Power Supply	BNC BNC LEMO series 1S, 3-pin fixed socket Pin 1: + 15V Pin 2: - 15V Pin 3: GND

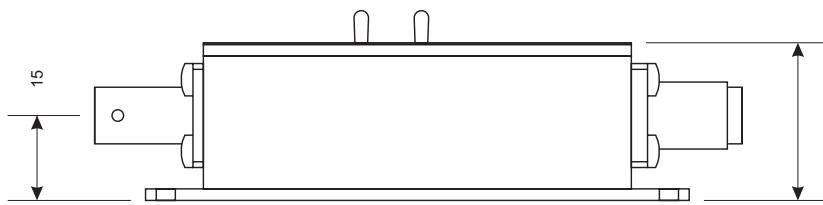
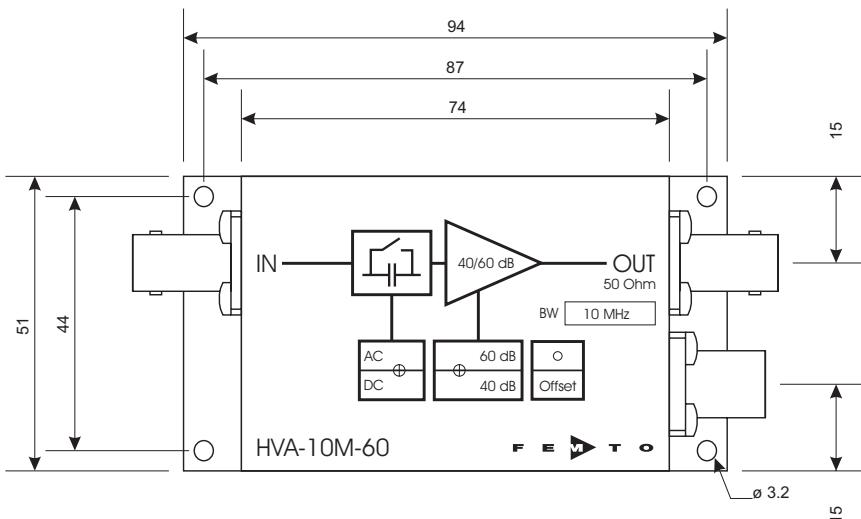


SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

Datasheet**HVA-10M-60-F**

10 MHz High Input Impedance Voltage Amplifier

Dimensions



all measures in mm unless otherwise noted

DZ_HVA-10M-60_R2

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SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

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