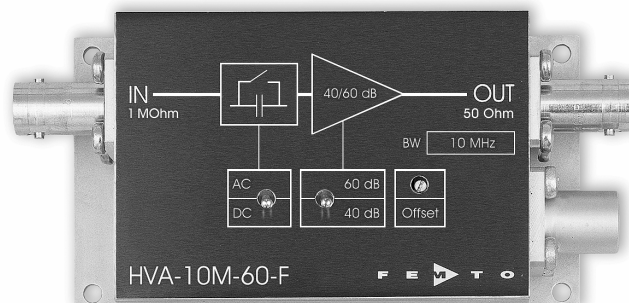
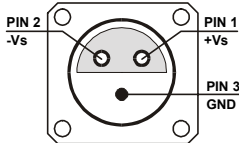


10 MHz High Input Impedance Voltage Amplifier



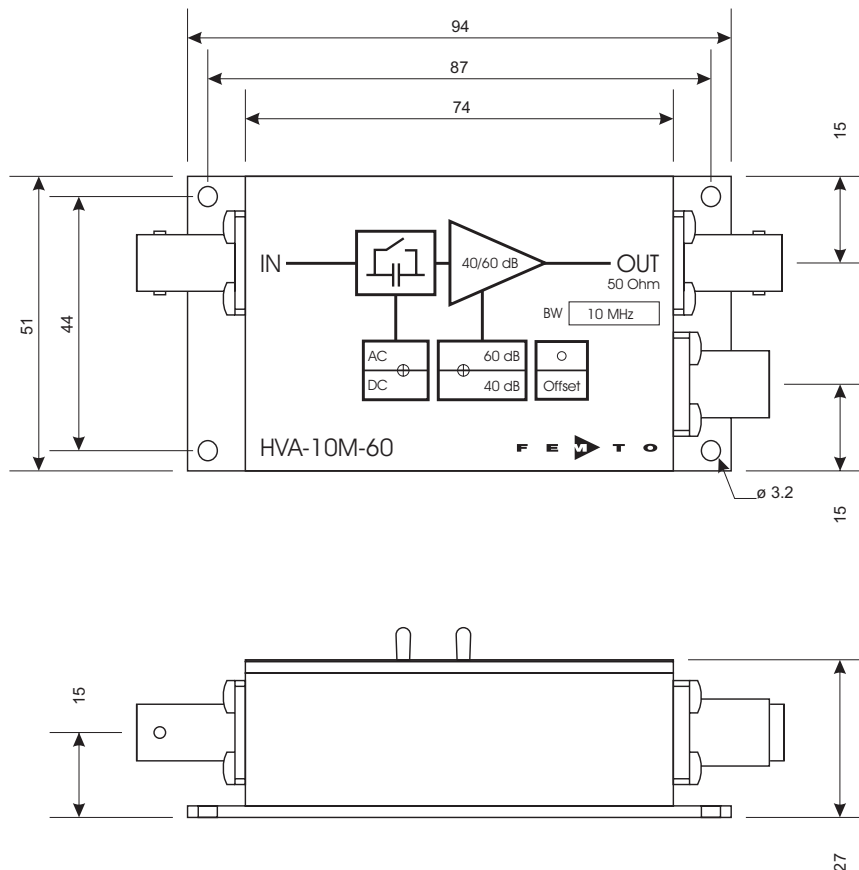
<p>Features</p>	<ul style="list-style-type: none"> • Switchable Gain 40/60 dB (x100 / x1,000) • Bandwidth DC ... 10 MHz • High Input Impedance 1 MΩ • Switchable AC/DC Coupling 																			
<p>Applications</p>	<ul style="list-style-type: none"> • Oscilloscope and Transient Recorder Pre-amplifier • Photomultiplier and Microchannel Plate Amplifier • Signal Booster for Optical Receivers and Current Amplifiers • Time-Resolved Pulse and Transient Measurements 																			
<p>Specifications</p>	<p><i>Test Conditions</i> <i>Vs = ± 15 V, Ta = 25°C</i></p> <table border="0"> <tr> <td style="vertical-align: top;"> <p>Gain</p> </td> <td style="vertical-align: top;"> <p>Gain</p> <p>Gain Accuracy</p> </td> <td style="vertical-align: top;"> <p>40/60 dB switchable</p> <p>± 0.2 dB</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Frequency Response</p> </td> <td style="vertical-align: top;"> <p>Lower Cut-Off Frequency (-3 dB)</p> <p>Upper Cut-Off Frequency (-3 dB)</p> <p>Rise/Fall Time (10% - 90%)</p> </td> <td style="vertical-align: top;"> <p>DC/1 Hz switchable</p> <p>10 MHz</p> <p>35 ns</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Input</p> </td> <td style="vertical-align: top;"> <p>Input Impedance</p> <p>Input Voltage Noise</p> <p>Integrated Input Noise</p> <p>Input Bias Current</p> <p>Input Offset Voltage</p> <p>Input Voltage Drift</p> </td> <td style="vertical-align: top;"> <p>1 MΩ 15 pF</p> <p>4.7 nV/√Hz (@ 2 MHz)</p> <p>100 μV peak-peak</p> <p>2 pA</p> <p>250 μV max.</p> <p>2 μV/°C</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Output</p> </td> <td style="vertical-align: top;"> <p>Output Impedance</p> <p>Output Voltage</p> <p>Max. Output Current</p> <p>Output Offset Trimmer Range</p> <p>Slew Rate</p> </td> <td style="vertical-align: top;"> <p>50 Ω (terminate with 50 Ω load for best performance)</p> <p>± 3.5 V (@ 50 Ω load, for linear amplification)</p> <p>100 mA</p> <p>± 500 mV</p> <p>500 V/μs (@ 50 Ω load)</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Power Supply</p> </td> <td style="vertical-align: top;"> <p>Supply Voltage</p> <p>Supply Current</p> </td> <td style="vertical-align: top;"> <p>± 15 V</p> <p>± 70 mA typ. (depends on operating conditions, recommended power supply capability min. ± 150 mA)</p> </td> </tr> <tr> <td style="vertical-align: top;"> <p>Case</p> </td> <td style="vertical-align: top;"> <p>Weight</p> <p>Material</p> </td> <td style="vertical-align: top;"> <p>200 g (0.5 lbs)</p> <p>AlMg4.5Mn, nickel-plated</p> </td> </tr> </table>		<p>Gain</p>	<p>Gain</p> <p>Gain Accuracy</p>	<p>40/60 dB switchable</p> <p>± 0.2 dB</p>	<p>Frequency Response</p>	<p>Lower Cut-Off Frequency (-3 dB)</p> <p>Upper Cut-Off Frequency (-3 dB)</p> <p>Rise/Fall Time (10% - 90%)</p>	<p>DC/1 Hz switchable</p> <p>10 MHz</p> <p>35 ns</p>	<p>Input</p>	<p>Input Impedance</p> <p>Input Voltage Noise</p> <p>Integrated Input Noise</p> <p>Input Bias Current</p> <p>Input Offset Voltage</p> <p>Input Voltage Drift</p>	<p>1 MΩ 15 pF</p> <p>4.7 nV/√Hz (@ 2 MHz)</p> <p>100 μV peak-peak</p> <p>2 pA</p> <p>250 μV max.</p> <p>2 μV/°C</p>	<p>Output</p>	<p>Output Impedance</p> <p>Output Voltage</p> <p>Max. Output Current</p> <p>Output Offset Trimmer Range</p> <p>Slew Rate</p>	<p>50 Ω (terminate with 50 Ω load for best performance)</p> <p>± 3.5 V (@ 50 Ω load, for linear amplification)</p> <p>100 mA</p> <p>± 500 mV</p> <p>500 V/μs (@ 50 Ω load)</p>	<p>Power Supply</p>	<p>Supply Voltage</p> <p>Supply Current</p>	<p>± 15 V</p> <p>± 70 mA typ. (depends on operating conditions, recommended power supply capability min. ± 150 mA)</p>	<p>Case</p>	<p>Weight</p> <p>Material</p>	<p>200 g (0.5 lbs)</p> <p>AlMg4.5Mn, nickel-plated</p>
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10 MHz High Input Impedance Voltage Amplifier

Specifications (continued)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; 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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10 MHz High Input Impedance Voltage Amplifier

Dimensions



all measures in mm unless otherwise noted

DZ_HVA-10M-60_R2

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