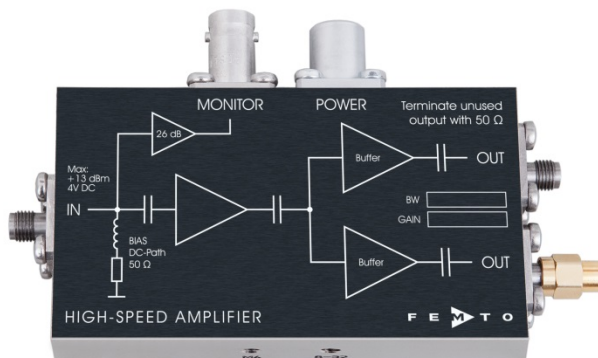
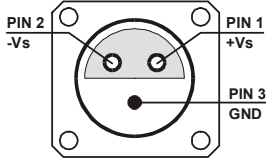


2 GHz High-Speed Amplifier



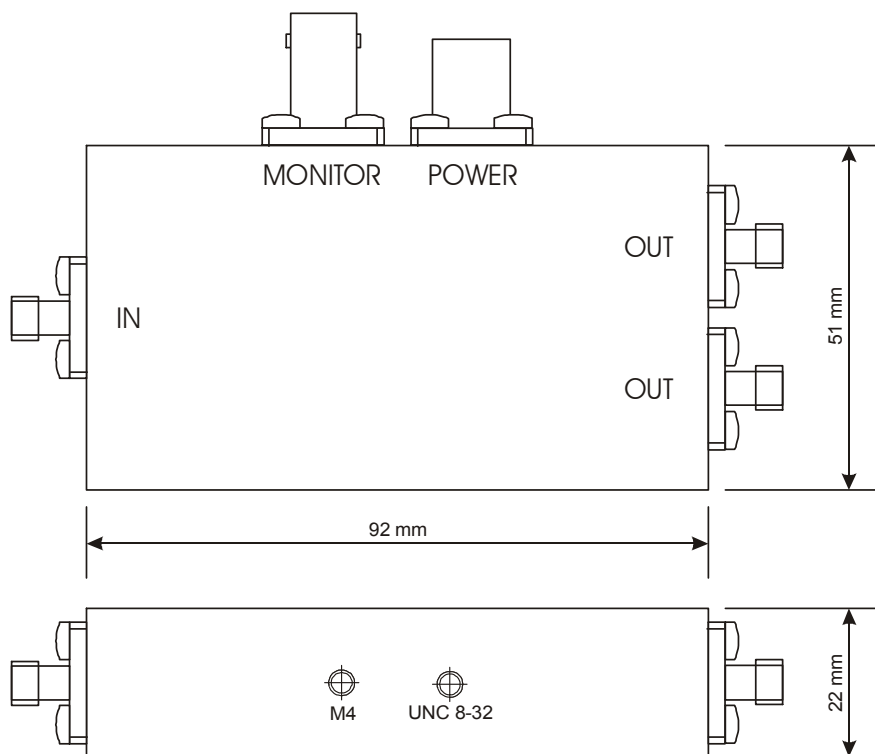
<p>Features</p>	<ul style="list-style-type: none"> • Bandwidth 10 kHz ... 1.9 GHz • Rise Time 185 ps • Gain 40 dB (5 kV/A) • Input VSWR 1 : 1.2 • Integrated Bias Circuit • Monitor Output • Two identical Signal Outputs 																																											
<p>Applications</p>	<ul style="list-style-type: none"> • Preamplifier for ultra-fast Detectors (Microchannel-Plates, Photomultipliers, Avalanche-Photodiodes, PIN-Photodiodes etc.) • Oscilloscope and Transient-Recorder Preamplifier • Time-Resolved Pulse and Transient Measurements 																																											
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2 GHz High-Speed Amplifier

Specifications (continued)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; vertical-align: top;">Output</td> <td>Two identical Signal Outputs:</td> <td></td> </tr> <tr> <td></td> <td>Output Impedance</td> <td>50 Ω</td> </tr> <tr> <td></td> <td>Maximum Output VSWR</td> <td>1 : 1.8 (@ f < 3 GHz)</td> </tr> <tr> <td></td> <td>Output Power P_{1dB}</td> <td>+ 12 dBm (@ f < 1 GHz)</td> </tr> <tr> <td></td> <td>Output Peak-Peak Voltage</td> <td>1.7 Vpp (@ f < 500 MHz, for linear Amplification)</td> </tr> <tr> <td></td> <td>Isolation between Outputs</td> <td>20 dB (@ f < 3 GHz)</td> </tr> <tr> <td style="vertical-align: top;">Monitor Amplifier</td> <td>Gain</td> <td>26 dB (1 kV/A)</td> </tr> <tr> <td></td> <td>Lower Cut-Off Frequency</td> <td>DC</td> </tr> <tr> <td></td> <td>Upper Cut-Off Frequency</td> <td>100 kHz</td> </tr> <tr> <td></td> <td>Output Voltage</td> <td>± 10 V (@ 10kΩ load)</td> </tr> <tr> <td style="vertical-align: top;">Power Supply</td> <td>Supply Voltage</td> <td>± 15 V</td> </tr> <tr> <td></td> <td>Supply Current</td> <td>+ 185 / -10 mA</td> </tr> <tr> <td style="vertical-align: top;">Case</td> <td>Weight</td> <td>180 gr. (0.41 lbs)</td> </tr> <tr> <td></td> <td>Material</td> <td>AlMg4.5Mn, nickel-plated</td> </tr> <tr> <td style="vertical-align: top;">Temperature Range</td> <td>Storage Temperature</td> <td>- 40 ... + 100 °C</td> </tr> <tr> <td></td> <td>Operating Ambient Temperature</td> <td>0 ... + 60 °C</td> </tr> <tr> <td></td> <td>Operating Case Temperature</td> <td>40 °C (@ Ta = 25 °C)</td> </tr> </table>	Output	Two identical Signal Outputs:			Output Impedance	50 Ω		Maximum Output VSWR	1 : 1.8 (@ f < 3 GHz)		Output Power P _{1dB}	+ 12 dBm (@ f < 1 GHz)		Output Peak-Peak Voltage	1.7 Vpp (@ f < 500 MHz, for linear Amplification)		Isolation between Outputs	20 dB (@ f < 3 GHz)	Monitor Amplifier	Gain	26 dB (1 kV/A)		Lower Cut-Off Frequency	DC		Upper Cut-Off Frequency	100 kHz		Output Voltage	± 10 V (@ 10kΩ load)	Power Supply	Supply Voltage	± 15 V		Supply Current	+ 185 / -10 mA	Case	Weight	180 gr. (0.41 lbs)		Material	AlMg4.5Mn, nickel-plated	Temperature Range	Storage Temperature	- 40 ... + 100 °C		Operating Ambient Temperature	0 ... + 60 °C		Operating Case Temperature	40 °C (@ Ta = 25 °C)
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Dimensions



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