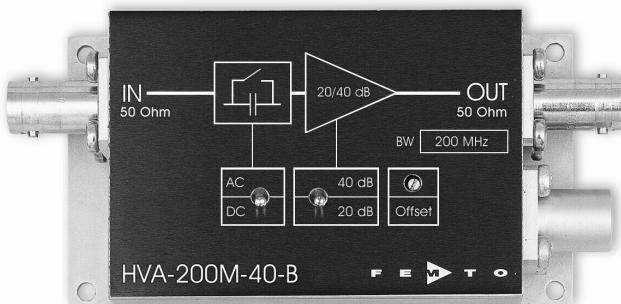




Datasheet

HVA-200M-40-B

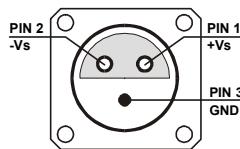
200 MHz Low-Noise
Voltage Amplifier

Features	<ul style="list-style-type: none">• Switchable Gain 20/40 dB (x10 / x100)• Bandwidth DC ... 200 MHz• Low Input Noise of 1.2 nV/$\sqrt{\text{Hz}}$• 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	20/40 dB switchable
	Gain Accuracy	$\pm 0.2 \text{ dB}$
Frequency Response	Lower Cut-Off Frequency (-3 dB)	DC/1 kHz switchable
	Upper Cut-Off Frequency (-3 dB)	200 MHz
	Rise/Fall Time (10% - 90%)	1.8 ns
Input	Input Impedance	$50 \Omega \parallel 12 \text{ pF}$
	Input Voltage Noise	1.2 nV/ $\sqrt{\text{Hz}}$ (@ 50 MHz, 40 dB gain) 3.5 nV/ $\sqrt{\text{Hz}}$ (@ 50 MHz, 20 dB gain)
	Intregrated Input Noise	150 μV peak-peak (@ 40 dB gain) 400 μV peak-peak (@ 20 dB gain)
	Input Bias Current	20 μA
	Input Offset Voltage	500 μV typ.
	Input Voltage Drift	1 $\mu\text{V}/^\circ C$
Output	Output Impedance	50Ω (terminate with 50Ω load for best performance)
	Output Voltage	$\pm 1 \text{ V}$ (@ 50Ω load, for linear amplification)
	Max. Output Current	60 mA
	Output Offset Trimmer Range	$\pm 100 \text{ mV}$
	Slew Rate	500 V/ μs (@ 20 dB, 50Ω load) 1,000 V/ μs (@ 40 dB, 50Ω load)
Power Supply	Supply Voltage	$\pm 15 \text{ V}$
SUNSTAR自动化 http://www.SunstarAutomation.com Supply Current / TEL: 0755-83376489 mA typ depends on operating conditions		
recommended power supply capability min. $\pm 150 \text{ mA}$		

Datasheet**HVA-200M-40-B**

200 MHz Low-Noise Voltage Amplifier

Specifications (continued)		
Case	Weight Material	200 g (0.5 lbs) AlMg4.5Mn, nickel-plated
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

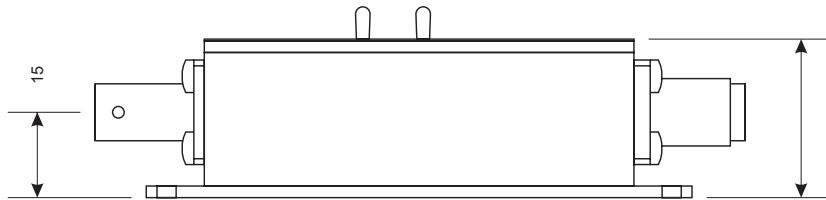
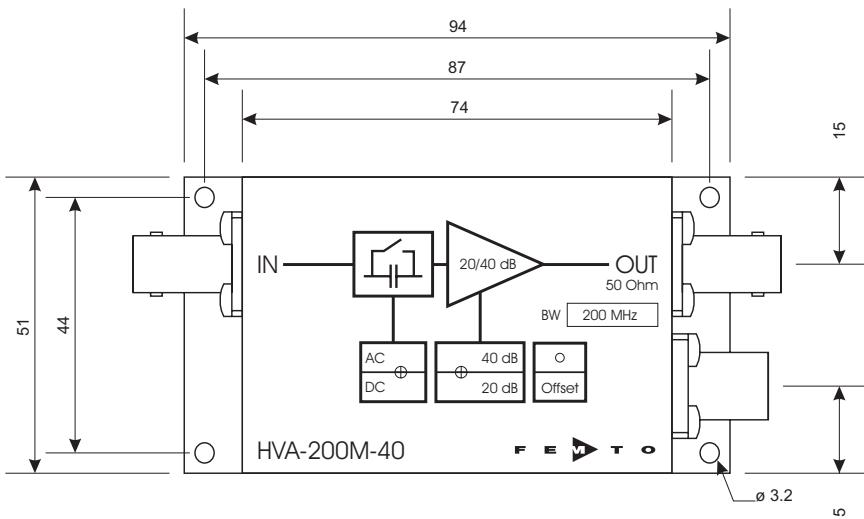


SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

Datasheet**HVA-200M-40-B**

200 MHz Low-Noise Voltage Amplifier

Dimensions



all measures in mm unless otherwise noted

DZ_HVA-200M-40_R2

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SOPHISTICATED TOOLS FOR SIGNAL RECOVERY

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