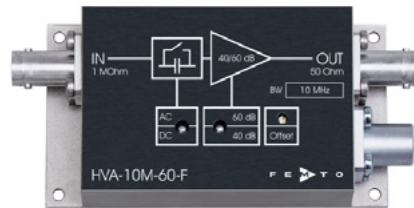


Datasheet

HVA-10M-60-F

10 MHz High Input Impedance
Voltage Amplifier



Features

- Switchable Gain 40/60 dB (x100 / x1,000)
- Bandwidth DC ... 10 MHz
- High Input Impedance 1 MΩ
- Switchable AC/DC Coupling

Applications

- 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

Specifications

| | Test Conditions | Vs = ± 15 V, Ta = 25°C |
|--------------------|---------------------------------|---|
| Gain | Gain | 40/60 dB switchable (@ 50 Ω load) |
| | 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 MΩ 15 pF |
| | Input Voltage Noise | 4.7 nV/√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 μV/°C |
| Output | Output Impedance | 50 Ω (terminate with 50 Ω load for best performance) |
| | Output Voltage | ± 3.5 V (@ 50 Ω load, for linear amplification) |
| | Max. Output Current | 100 mA |
| | Output Offset Trimmer Range | ± 500 mV |
| | Slew Rate | 500 V/μs (@ 50 Ω load) |
| Power Supply | Supply Voltage | ± 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 |

SOPHISTICATED TOOLS FOR SIGNAL RECOVERY



DE-HVA-10M-60-F_R5/JM/25FEB2019

Datasheet

HVA-10M-60-F

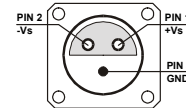
**10 MHz High Input Impedance
Voltage Amplifier**

Specifications (continued)

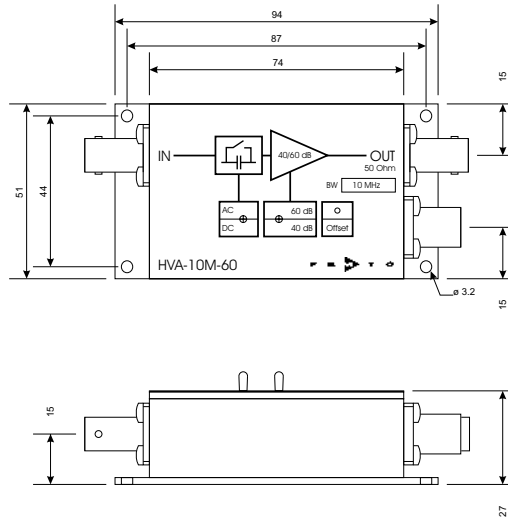
| | | |
|-------------------|-----------------------|-------------------|
| Temperature Range | Storage Temperature | - 40 ... + 100 °C |
| | Operating Temperature | 0 ... + 60 °C |

| | | |
|--------------------------|-------------------------|--------------------------------|
| Absolute Maximum Ratings | Power Supply Voltage | ± 20 V |
| | Signal Input Voltage | ± 5 V |
| | Transient Input Voltage | 200 V (out of a 200 pF Source) |

| | | |
|------------|--------------|--|
| Connectors | Input | BNC |
| | Output | BNC |
| | Power Supply | LEMO series 1S, 3-pin fixed socket Pin 1: + 15V Pin 2: - 15V Pin 3: GND |



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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