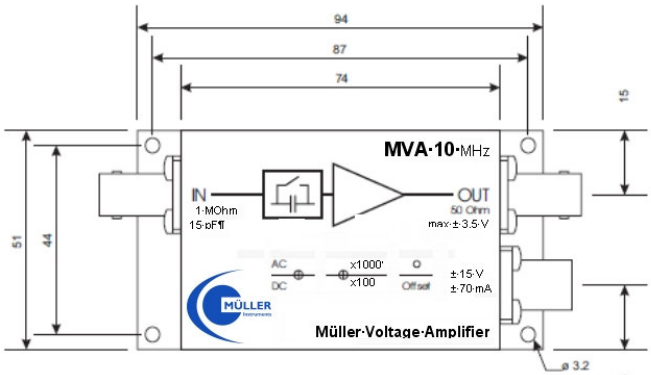
Müller Voltage Amplifier MVA 10

Low Noise Amplifier with 10 MHz Bandwidth
For Thermocouples and Hydrophones



Applications

This Amplifier is perfect to use with our MCT Series Thermocouple. When used together with the 1 MHz filter, it has an excellent signal to noise ratio for the small signals of the type E or type K thermocouples.

A second application of this amplifier is for use with our Müller-Platte Needle Probe or the type M pressure sensors. The signal of these hydrophones are quite small in applications like ultrasound.. However, together with the MVA 10 the range of application extends to the complete field of ultrasound. This amplifier will be used with full 10 MHz bandwidth to measure signals in a plane or focused field as well as for sinus or pulsed waves.

Further applications and uses for the MVA 10 is use as a general preamplifier for oscilloscopes and transient recorders, photomultiplier or signal booster for optical receivers and current amplifiers.

Technical Data

Input Impedance	**1 MOhm, 15 pF**
Input Voltage Noise:	**4.7 nV/√Hz at 2 MHz**
Input Noise:	**100 µV (peak – peak)**
Output Impedance	**50 Ohm**
Output Voltage:	**± 3,5 V**
Max. Output Current:	**100 mA**
Gain:	**x100 or x1000, switch able**
Gain Accuracy:	**± 0.2 dB**
Bandwidth DC:	**1 Hz to 10 MHz**
Rise Time:	**35 ns**
Supply Voltage:	**± 15 V, power supply is included n the kit**
Supply Current:	**± 70 mA**
Weight:	**200 g**
Housing Material:	**Al/Mg4.5Mn, nickel plated**
Operating Temperature:	**0 – 60°C**
Connectors:	**BNC neg. for input and output**
Absolute Max. Input Voltage:	**± 5 V**

1 MHz filter for connecting the output cable to the recorder

Article-No

200-120-1 :	**Amplifier MVA 10: 10 MHz Voltage Amplifier incl. Power Supply**
200-120-2:	**Low pass filter 1 MHz**

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