



Rev 1.2
19.09.2013

Broadband Preamplifier UBBV Series

External Preamplifier 1Hz - 10GHz, up to 40dB

Highlights

- ◆ Suitable for any brand of Spectrum Analyzers or Antennas
- ◆ Frequency range: 1Hz - 10GHz
- ◆ Fits perfectly to any SPECTRAN
- ◆ Integrated calibration data, readout via USB
- ◆ Runs with internal battery or power supply
- ◆ Small weight and dimensions
- ◆ **10 years warranty**

References

- ◆ Fraunhofer FHR in Wachtberg, Germany
- ◆ DLR in Cologne, Germany
- ◆ Ruhr University in Bochum, Germany
- ◆ Siemens AG in Berlin, Germany
- ◆ Continental Automotive in Jalisco, Mexico
- ◆ Saab in Linköping, Sweden
- ◆ Cassidian in Elancourt, France
- ◆ Finnish Defence Forces in Espoo, Finland



Made in Germany



Details

Highest Performance in the smallest space

Do you have problems to read weak signals? Or how about boosting that probe gain or maybe pre-amping that antenna. The UBBV is the answer to all these needs as well as many others.

The UBBV is an high-end Preamplifier which works with any brand of Spectrum Analyzers and directly fits to any SPECTRAN.

Since the UBBV has such a high compression point of almost 100 milliwatts, you can even use it to boost the power of small micro transmitters. Newly designed microwave chips enable the UBBV2 to have gain even up to 12GHz.

The UBBV series enables maximum performance, particularly when measuring extremely weak signals e.g. in typical EMC test according to EN55022, EN55011 and so on.



The transport case offers enough space for the preamp & accessories



Frontside



Backside



The UBBV fits directly to any SPECTRAN Spectrum Analyzer

Technical Data

UBBV 1

- ◆ Frequency range: **1MHz - 1GHz**
- ◆ Noise: 3,5dB (typ.)
- ◆ Gain: 40dB (typ.)
- ◆ Max. power at RF input: +15dBm
- ◆ Max. power at RF output: +15dBm
- ◆ Input: 50 Ohm SMA (f)
- ◆ Output: 50 Ohm SMA (m)
- ◆ Interface: USB 2.0/1.1
- ◆ Internal specific calibration data, readout via USB
- ◆ Incl. transport case, power supply incl. international adapters, manual, SMA tool & USB cable
- ◆ Weight: 146gr
- ◆ Dimensions: 81x61x29mm
- ◆ **Warranty: 10 years**

UBBV 2

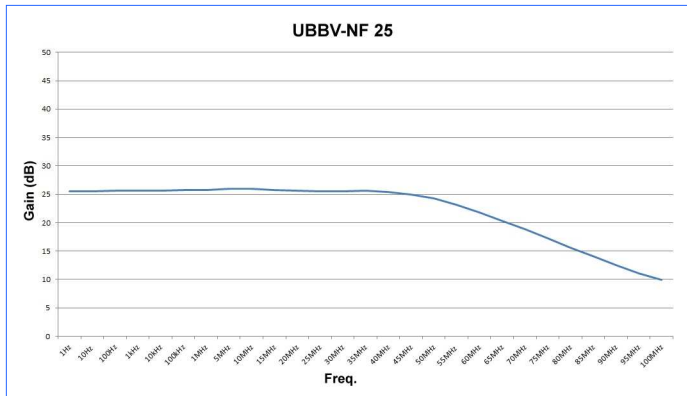
- ◆ Frequency range: **1kHz - 10GHz** (500kHz with 3dB difference)
- ◆ Noise: 3,5dB (typ.)
- ◆ Gain: 40dB (typ.)
- ◆ Max. power at RF input: +15dBm
- ◆ Max. power at RF output: +15dBm
- ◆ Input: 50 Ohm SMA (f)
- ◆ Output: 50 Ohm SMA (m)
- ◆ Interface: USB 2.0/1.1
- ◆ Internal specific calibration data **with up 1000 points**, readout via USB
- ◆ Incl. transport case, power supply incl. international adapters, manual, SMA tool & USB cable
- ◆ Weight: 146gr
- ◆ Dimensions: 81x61x29mm
- ◆ **Warranty: 10 years**

UBBV-NF 25

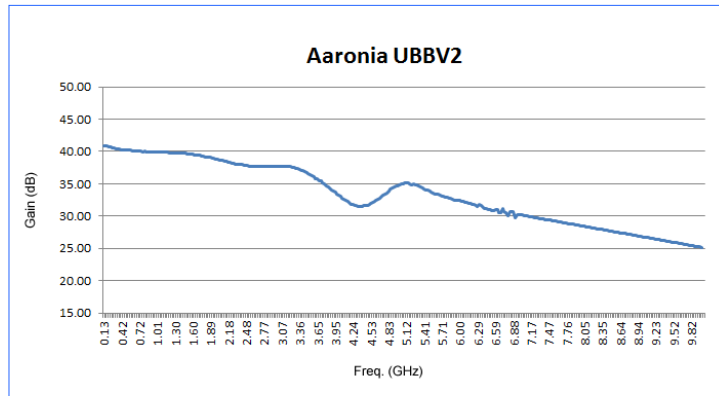
- ◆ Frequency range: **1Hz - 60MHz**
- ◆ Gain: 25dB (typ.)
- ◆ Max. input DC voltage: 10VDC
- ◆ Max. input AC voltage: 3V or 2.1V rms
- ◆ Max. power at output: +15dBm (50 Ohm)
- ◆ Input: 100 kohm SMA (f)
- ◆ Output: 50 ohm SMA (m)
- ◆ Interface: USB 2.0/1.1
- ◆ Internal specific calibration data, readout via USB
- ◆ Incl. transport case, power supply incl. international adapters, manual, SMA tool & USB cable
- ◆ Weight: 146gr
- ◆ Dimensions: 81x61x29mm
- ◆ **Warranty: 10 years**

UBBV-NF 35

- ◆ Frequency range: **1Hz - 30MHz**
- ◆ Gain: 35dB (typ.)
- ◆ Max. input DC voltage: 10VDC
- ◆ Max. input AC voltage: 3V or 2.1V rms
- ◆ Max. power at output: +10dBm (50 Ohm)
- ◆ Input: 100 kohm SMA (f)
- ◆ Output: 50 ohm SMA (m)
- ◆ Interface: USB 2.0/1.1
- ◆ Internal specific calibration data, readout via USB
- ◆ Incl. transport case, power supply incl. international adapters, manual, SMA tool & USB cable
- ◆ Weight: 146gr
- ◆ Dimensions: 81x61x29mm
- ◆ **Warranty: 10 years**



Gain UBBV-NF-25



Gain UBBV2

References

User of Aeronia Antennas and Spectrum Analyzers (Examples)

Government, Military, Aeronautic, Astronautic

- ◆ NATO, Belgium
- ◆ Boeing, USA
- ◆ Airbus, Germany
- ◆ Bund (Bundeswehr), Germany
- ◆ Bundeswehr (Technische Aufklärung), Germany
- ◆ Lufthansa, Germany
- ◆ DLR (Deutsches Zentrum für Luft- und Raumfahrt, Germany)
- ◆ Eurocontrol (Flugüberwachung), Belgium
- ◆ Australian Government Department of Defence, Australia
- ◆ EADS (European Aeronautic Defence & Space Company) GmbH, Germany
- ◆ Institut für Luft- und Raumfahrtmedizin, Germany
- ◆ Deutscher Wetterdienst, Germany
- ◆ Polizeipräsidium, Germany
- ◆ Landesamt für Umweltschutz Sachsen-Anhalt, Germany
- ◆ Zentrale Polizeitechnische Dienste, Germany
- ◆ Bundesamt für Verfassungsschutz, Germany
- ◆ BEV (Bundesamt für Eich- und Vermessungswesen)

Research/Development, Science and Universitys

- ◆ Deutsches Forschungszentrum für Künstliche Intelligenz, Germany
- ◆ University Freiburg, Germany
- ◆ Indonesien Institute of Sience, Indonesia
- ◆ Max-Planck-Institut für Polymerforschung, Germany
- ◆ Los Alamos National Labratory, USA
- ◆ University of Bahrain, Bahrain
- ◆ University of Florida, USA
- ◆ University Erlangen, Germany
- ◆ University Hannover, Germany
- ◆ University of Newcastle, United Kingdom
- ◆ University Strasbourg, France
- ◆ Universität Frankfurt, Germany
- ◆ University Munich, Germany
- ◆ Technical University Hamburg, Germany
- ◆ Max-Planck Institut für Radioastronomie, Germany
- ◆ Max-Planck-Institut für Quantenoptik, Germany
- ◆ Max-Planck-Institut für Kernphysik, Germany
- ◆ Max-Planck-Institut für Eisenforschung, Germany
- ◆ Forschungszentrum Karlsruhe, Germany

Industry

- ◆ Shell Oil Company, USA
- ◆ ATI, USA
- ◆ Fedex, USA
- ◆ Walt Disney, California, USA
- ◆ Agilent Technologies Co. Ltd., China
- ◆ Motorola, Brazil
- ◆ IBM, Switzerland
- ◆ Audi AG, Germany
- ◆ BMW, Germany
- ◆ Daimler Chrysler AG, Germany
- ◆ BASF, Germany
- ◆ Deutsche Bahn, Germany
- ◆ Deutsche Telekom, Germany
- ◆ Siemens AG, Germany
- ◆ Rohde & Schwarz, Germany
- ◆ Infineon, Austria
- ◆ Philips Technologie GmbH, Germany
- ◆ ThyssenKrupp, Germany
- ◆ EnBW, Germany
- ◆ RTL Television, Germany
- ◆ Pro Sieben – SAT 1, Germany
- ◆ Channel 6, United Kingdom
- ◆ WDR, Germany
- ◆ NDR, Germany
- ◆ SWR, Germany
- ◆ Bayerischer Rundfunk, Germany
- ◆ Carl-Zeiss-Jena GmbH, Germany
- ◆ Anritsu GmbH, Germany
- ◆ Hewlett Packard, Germany
- ◆ Robert Bosch GmbH, Germany
- ◆ Mercedes Benz, Austria
- ◆ EnBW Kernkraftwerk GmbH, Germany
- ◆ AMD, Germany
- ◆ Infineon Technologies, Germany
- ◆ Intel GmbH, Germany
- ◆ Philips Semiconductors, Germany
- ◆ Hyundai Europe, Germany
- ◆ Saarschmiede GmbH, Germany
- ◆ Wilkinson Sword, Germany
- ◆ IBM Deutschland, Germany
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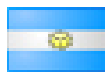
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