

Broadband Pre-Amplifier UBBV Series

RF & Microwave Amplifier (DC to 20GHz), up to 40dB Gain

Highlights

- Frequency range max.: DC 20GHz
- Suitable for any brand of Spectrum Analyzers or Antennas
- 7 different Models
- 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



www.aaroniausa.com 864-885-0700

Details

Highest Performance in the smallest space

Do you have problems to read weak signals? Or how about boosting a probes gain or maybe pre-amplifying an rf antenna.

The UBBV is the answer to all these needs as well as many others.

The UBBV is a high-end Pre-Amplifier which works with any brand of Spectrum Analyzers and directly fits to any Aaronia SPECTRAN Handheld Analyzer.

Since the UBBV has such a high compression point of amlost 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 30GHz.

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



Technical Data

UBBV DC20 (Widest Range)

Frequency range: DC to 20GHz

Noise: 2,5dB (typ.)Gain: 14dB (typ.)

Max. power at RF input: +15dBm

Max. power at RF output: +16dBm

Input: 50 Ohm SMA (f)Output: 50 Ohm SMA (m)

Interface: USB 2.0/1.1

Specific calibration data, readout via USB

 Incl. Transport Case, Power Supply incl. Adapters, Manual, SMA tool & USB cable

Weight: 146gr

Dimensions: 81x61x29mm

Warranty: 10 years

UBBV 0910 (Ultra low noise!)

Frequency range: 9kHz to 6GHz

Noise: 0,4dB (typ.)Gain: 22dB (typ.)

Max. power at RF input: +10dBm

Max. power at RF output: +8dBm

Input: 50 Ohm SMA (f)Output: 50 Ohm SMA (m)

Interface: USB 2.0/1.1

Specific calibration data, readout via USB

 Incl. Transport Case, Power Supply incl. Adapters, Manual, SMA tool & USB cable

Weight: 146gr

Dimensions: 81x61x29mm

Warranty: 10 years

UBBV 1

Frequency range: 1MHz to 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

Specific calibration data, readout via USB

 Incl. Transport Case, Power Supply incl. Adapters, Manual, SMA tool & USB cable

Weight: 146gr

Dimensions: 81x61x29mm

Warranty: 10 years

UBBV 2 (Highest Gain)

 Frequency range: 1MHz to 10GHz (500kHz with -3dB bandwidth)

• 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 to 1000 points, readout via USB

 Incl. Transport Case, Power Supply incl. Adapters, Manual, SMA tool & USB cable

Weight: 146gr

Dimensions: 81x61x29mm

Warranty: 10 years

UBBV-NF 25

 Frequency range: 1Hz to 50MHz (60MHz with -3dB bandwidth)

• 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

Specific calibration data, readout via USB

 Incl. Transport Case, Power Supply incl. Adapters, Manual, SMA tool & USB cable

Weight: 146gr

Dimensions: 81x61x29mm

Warranty: 10 years

UBBV-NF 35

 Frequency range: 1Hz to 30MHz (35MHz with -3dB bandwidth)

• 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

Specific calibration data, readout via USB

 Incl. Transport Case, Power Supply incl. Adapters, Manual, SMA tool & USB cable

Weight: 146gr

Dimensions: 81x61x29mm

Warranty: 10 years

UBBV 1060 BPA (Bypass!)

Frequency range: 100MHz - 6GHz

Bypass Mode!

Noise: 1,4dB at 2GHzGain: 22dB at 2GHz

IP3: +48dBm (bypass mode)

Max. power at RF output: +21dBm

Input: 50 Ohm SMA (f)

Output: 50 Ohm SMA (m)

Specific calibration data, readout via USB

 Incl. Transport Case, Power Supply incl. Adapters, Manual, SMA tool & USB cable

Weight: 146gr

Dimensions: 81x61x29mm

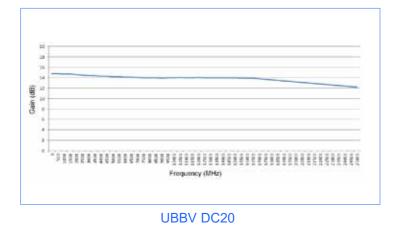
Warranty: 10 years

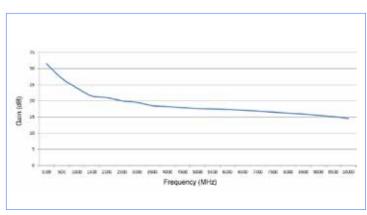




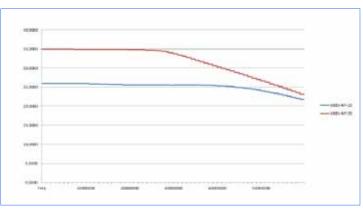


Gain vs Frequency

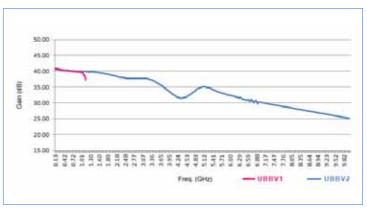




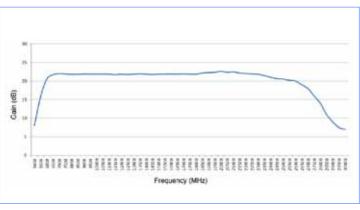
UBBV 0910



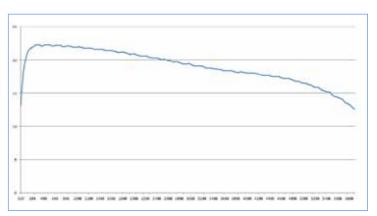




UBBV1 & UBBV2



UBBV 0530



UBBV 1060 BPA