



Rev 1.0
26.08.2015

Ultra-Broadband LogPer Antennas up to 35GHz HyperLOG® 30250 & 30350

Ultimate Functionality, Ultra Wideband, Compact & Directional

Highlights:

- ◆ Only a single broadband antenna for the complete frequency range from 380MHz to 35GHz
- ◆ Optimal for usage with spectrum analysers for EMC measurement
- ◆ Complete ISO calibration certificate (option)
- ◆ **Top-quality high-tech TEFLON antenna support**
- ◆ Freely alignable polarisation
- ◆ Made in Germany
- ◆ **10 years warranty**

Calibration & standards:

- ◆ The log-periodic precompliance test antenna of the HyperLOG® 30xxx series are suitable for interference field strength measurement. The specialized broadband characteristics allow measurements to be taken in the complete specified frequency range **without switching**.
- ◆ **These antennas are suitable for measurement according to the following standards and procedures:**
CISPR, VDE, MIL, VG, EN 55011, EN 55013, EN 55015, EN 55022, MIL-Std-461.

Included with delivery:

- ◆ HyperLOG® 30xxx-Antenna
- ◆ Typical calibration data with up to 693 calibration points (50MHz steps)
- ◆ Aluminum design carrycase with custom padding
- ◆ Sturdy, detachable pistol grip with "miniature tripod" mode
- ◆ Special Aaronia SMA toolset with over-torque protection



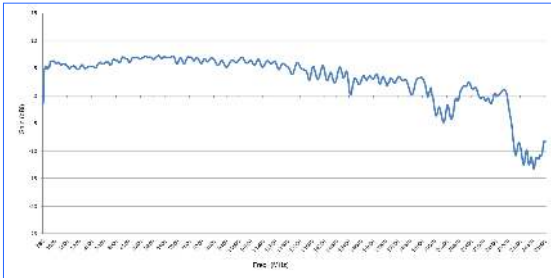
Made in Germany



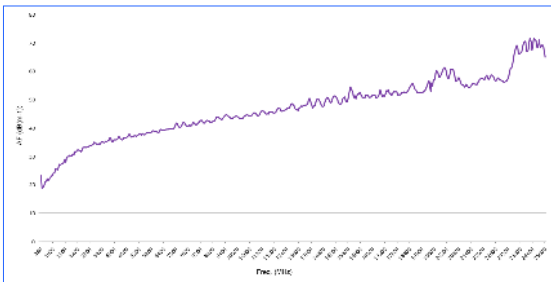
HyperLOG® 30250

- ◆ Design: Logarithmic-periodic
- ◆ Frequency range: **380MHz-25GHz**
- ◆ Max. transmission power: 100W CW (400 MHz)
- ◆ Nominal impedance: 50 Ohms
- ◆ VSWR (typ.): <1:2,5
- ◆ Gain (typ.): 5dBi
- ◆ Calibration points: **493** (50MHz-steps)
- ◆ RF connection: SMA (female) or N via Adapter
- ◆ Dimensions (L/W/D): (590x360x30) mm
- ◆ Weight: 1000gr
- ◆ **Warranty: 10 years**

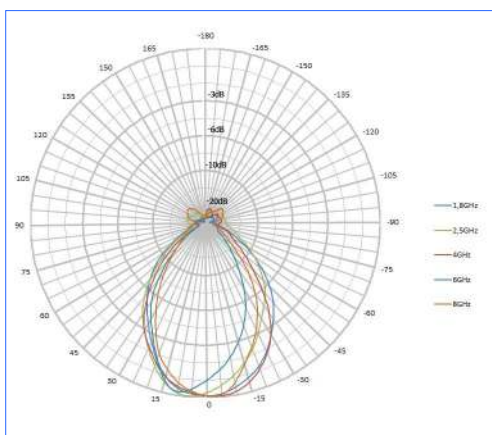
Gain Diagram HyperLOG 30250



Antenna Factor HyperLOG 30250



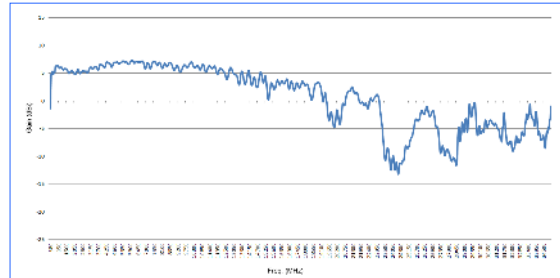
Horizontal Pattern HyperLOG 30xx Serie



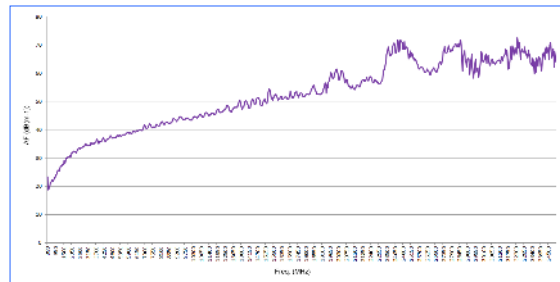
HyperLOG® 30350

- ◆ Design: Logarithmic-periodic
- ◆ Frequency range: **380MHz-35GHz**
- ◆ Max. transmission power: 100W CW (400 MHz)
- ◆ Nominal impedance: 50 Ohms
- ◆ VSWR (typ.): <1:2,5
- ◆ Gain (typ.): 5dBi
- ◆ Calibration points: **693** (50MHz-steps)
- ◆ RF connection: SMA (female) or N via Adapter
- ◆ Dimensions (L/W/D): (590x360x30) mm
- ◆ Weight: 1000gr
- ◆ **Warranty: 10 years**

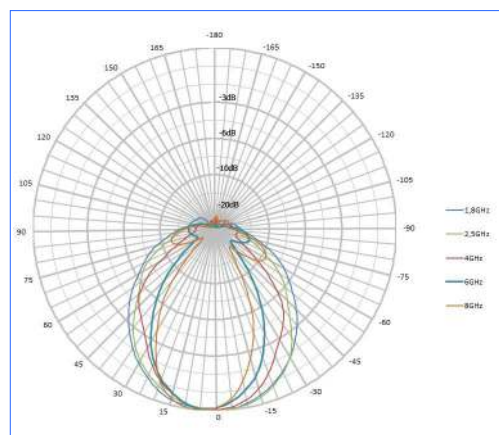
Gain Diagram HyperLOG 30350



Antenna Factor HyperLOG 30350



Vertikal Pattern HyperLOG 30xx Serie



Description



HyperLOG 30xxx antenna with optional aluminum tripod

The HyperLOG® antennas come standard with a specially constructed, high tech radom housing. This housing has been constructed after intense research with the most modern computer technology in such a way that its shape, material and special coating have virtually no influence on measurements, not even in case of dew or other kinds of humidity collecting on the surface. Another important factor for Aaronia was the development of a radom with the lowest possible damping factor achievable. This turned out to be quite an adventure for our development team, particularly in the high GHz ranges. Fortunately, this adventure has been mastered resulting in a beautiful, elegant design, to the complete satisfaction of the development team. Our first test measurements even by far surpassed our guidelines!

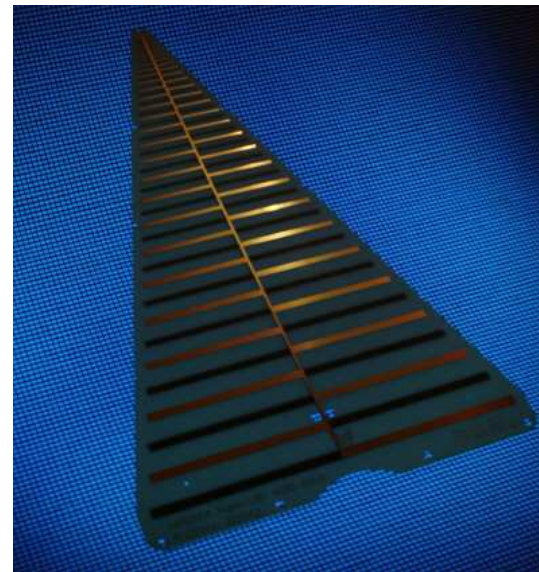
The resulting antenna had the best possible protection against mechanical stress and environmental influence without sacrificing any of its performance.



Lot of space for optionally accessories:
The HyperLOG® transportcase

With their log-periodic measurement antennas from the HyperLOG® 30xxx series, Aaronia finally offers a very cost-effective alternative, which at the same time meets the highest expectations. In conjunction with the HyperLOG® antennas, every regular spectrum analyser becomes a fully professional directional RF measurement device within a few moments. Thus, a perfect "dream team" for EMC measurement in the laboratory or for outdoor use is at your disposal.

The TEFLON LogPer antennas of the HyperLOG® 30xxx series are identical to those of the 60xxx series, but have an enhanced frequency range down to 380MHz, particularly for coverage of the important TETRA band. After a huge amount of complex development, a whole series of truly high-tech antennas has evolved, with an exceptional mix of performance, functionality and design in this price category.



Gold-coated, protected TEFLON precision antenna

Included with delivery: A sturdy aluminum design carrycase with custom padding for the antenna, cables and accessories. Furthermore, every antenna of the HyperLOG® 30xxx series includes a detachable multi-functional pistol grip with "miniature-tripod" mode and an appropriate SMA toolset.

Accessories

Aluminum tripod

Height adjustable, high stability. STRONGLY recommended for use with HyperLOG 40xx and 30xxx antennas! Max. height: 105cm.

Order/Art.-No.: 281



1m / 5m / 10m SMA-Cable

High quality special SMA cable for connecting any HyperLOG®-Antenna or BicoLOG®-Antenna with various test equipment like our RF Spectrum-Analyzer. You can choose between 3 different cables:

- 1m standard SMA cable (RG316U)
- 5m LowLoss SMA cable (especially low damping)
- 10m LowLoss SMA cable (especially low damping)

All versions: SMA plug (male) / SMA plug (male)

Order/Art.-No.: 771X (1m Cable), 772X (5m Cable), 773X (10m Cable)



SMA to N Adapter

This special high quality adapter allows operation of all HyperLOG®-Antenna with any standard spectrum-analyzer with N connector. Also this adapter is needed to connect BicoLOG® antennas to a Spectran Spectrum Analyzer.

Especially massive, chrome-plated design. This adapter is usable for very high frequencies up to at least 18GHz. Physical dimensions are just 30x20mm. Nominal impedance 50 Ohms. Layout: SMA socket (female) / N plug (male).

Order/Art.-No.: 770



Heavy multifunctional Pistol Grip (strongly recommended!)

Highly recommend for the usage of HyperLOG antennas. Quick and easy change of antenna polarization, perfect antenna handling.

Order/Art.-No.: 282



References

Cross-Section of Aeronia Clients

Government, Military, Aeronautic, Astronautic

- ◆ NATO, Belgium
- ◆ Department of Defense, USA
- ◆ Department of Defense, Australia
- ◆ Airbus, Germany
- ◆ Boeing, USA
- ◆ Bundeswehr, Germany
- ◆ NASA, USA
- ◆ Lockheed Martin, USA
- ◆ Lufthansa, Germany
- ◆ DLR, Germany
- ◆ Eurocontrol, Belgium
- ◆ EADS, Germany
- ◆ DEA, USA
- ◆ FBI, USA
- ◆ BKA, Germany
- ◆ Federal Police, Germany
- ◆ Ministry of Defense, Netherlands

Research/Development, Science and Universities

- ◆ MIT - Physics Department, USA
- ◆ California State University, USA
- ◆ Indonesien Institute of Science, Indonesia
- ◆ Los Alamos National Laboratory, USA
- ◆ University of Bahrain, Bahrain
- ◆ University of Florida, USA
- ◆ University of Victoria, Canada
- ◆ University of Newcastle, United Kingdom
- ◆ University of Durham, United Kingdom
- ◆ University of Strasbourg, France
- ◆ University of Sydney, Australia
- ◆ University of Athen, Greece
- ◆ University of Munich, Germany
- ◆ Technical University of Hamburg, Germany
- ◆ Max-Planck Institute for Radio Astronomy, Germany
- ◆ Max-Planck Institute for Quantum Optics, Germany
- ◆ Max-Planck-Institute for Nuclear Physics, Germany
- ◆ Max-Planck-Institute for Iron Research, Germany
- ◆ Research Centre Karlsruhe, Germany

Industry

- ◆ APPLE, USA
- ◆ IBM, Switzerland
- ◆ Intel, Germany
- ◆ Shell Oil Company, USA
- ◆ ATI, USA
- ◆ Microsoft, USA
- ◆ Motorola, Brazil
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- ◆ BMW, Germany
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- ◆ Rohde & Schwarz, Germany
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