



Rev 1.9
19.09.2014

LogPer antenna HyperLOG® 40xx span 400MHz to 6GHz

Broadband antenna for the complete frequency range up to 6GHz

Highlights:

- ◆ Optimal for usage with spectrum analysers for EMC measurement
- ◆ Incl. high-tech radom with modern, appealing design
- ◆ Excellent forward/backward ratio
- ◆ Freely alignable polarisation
- ◆ Excellent symmetry of radiation patterns
- ◆ Integrated 1/4" tripod socket
- ◆ Suitable for mobile use
- ◆ Made in Germany
- ◆ **10 years warranty**

Calibration & standards:

- ◆ The log-periodic precompliance test antenna of the HyperLOG® 40xx 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® 40xx-Antenna
- ◆ **Typical calibration data with up to 561 calibration points (10MHz steps)**
- ◆ Aluminum design carrycase with custom padding
- ◆ Sturdy, detachable pistol grip with "miniature tripod" mode
- ◆ Special Aaronia SMA toolset with over-torque protection

References / examples of proof:

- ◆ Boeing, USA
- ◆ Rohde & Schwarz, Germany
- ◆ DaimlerChrysler AG, Germany
- ◆ EADS, Belgium
- ◆ Philips Semiconductors, Germany
- ◆ Infineon, Austria



Made in Germany



Specifications

HyperLOG® 4025:

- ◆ Design: Logarithmic-periodic
- ◆ Frequency range: **400MHz-2,5GHz**
- ◆ Max. transmission power: 100 W CW (400MHz)
- ◆ Nominal impedance: 50 Ohm
- ◆ VSWR (typ.): <1:2
- ◆ Gain (typ.): **4dBi**
- ◆ Antenna factor: **18-34dB/m**
- ◆ Calibration points: **211** (10MHz steps)
- ◆ RF connection: SMA socket (18GHz) or N socket using an adapter
- ◆ Dimensions (L/W/D): (590x360x30) mm
- ◆ Weight: 1200gr
- ◆ **Warranty: 10 years**

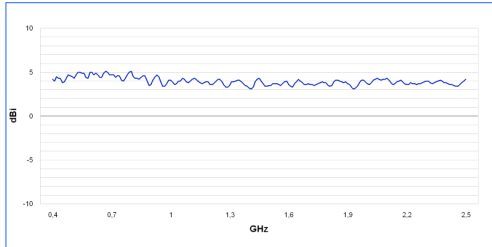
HyperLOG® 4040:

- ◆ Design: Logarithmic-periodic
- ◆ Frequency range: **400MHz-4GHz**
- ◆ Max. transmission power: 100 W CW (400MHz)
- ◆ Nominal impedance: 50 Ohm
- ◆ VSWR (typ.): <1:2
- ◆ Gain (typ.): **4dBi**
- ◆ Antenna factor: **18-38dB/m**
- ◆ Calibration points: **361** (10MHz steps)
- ◆ RF connection: SMA socket (18GHz) or N socket using an adapter
- ◆ Dimensions (L/W/D): (590x360x30) mm
- ◆ Weight: 1200gr
- ◆ **Warranty: 10 years**

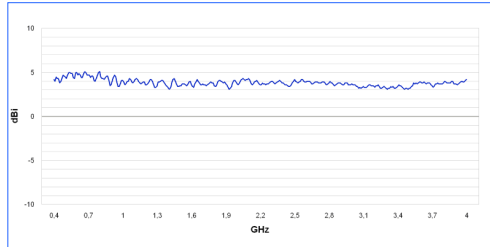
HyperLOG® 4060:

- ◆ Design: Logarithmic-periodic
- ◆ Frequency range: **400MHz-6GHz**
- ◆ Max. transmission power: 100 W CW (400MHz)
- ◆ Nominal impedance: 50 Ohm
- ◆ VSWR (typ.): <1:2
- ◆ Gain (typ.): **5dBi**
- ◆ Antenna factor: **20-40dB/m**
- ◆ Calibration points: **561** (10MHz steps)
- ◆ RF connection: SMA socket (18GHz) or N socket using an adapter
- ◆ Dimensions (L/W/D): (590x360x30) mm
- ◆ Weight: 1000gr
- ◆ **Warranty: 10 years**

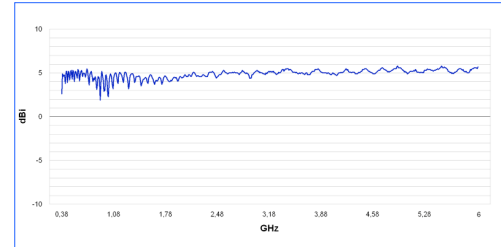
Gain Diagram HyperLOG 4025



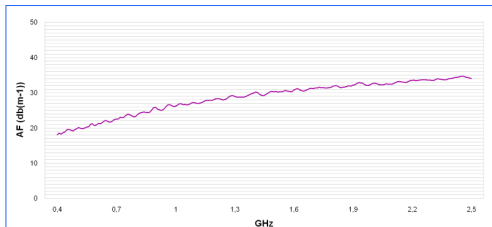
Gain Diagram HyperLOG 4040



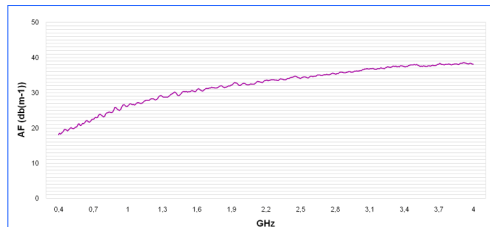
Gain Diagram HyperLOG 4060



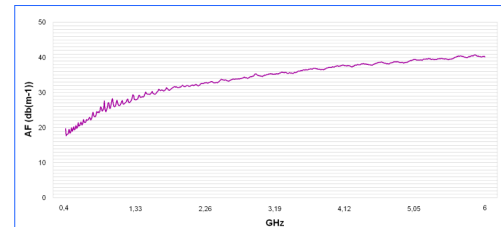
Antenna factor HyperLOG 4025



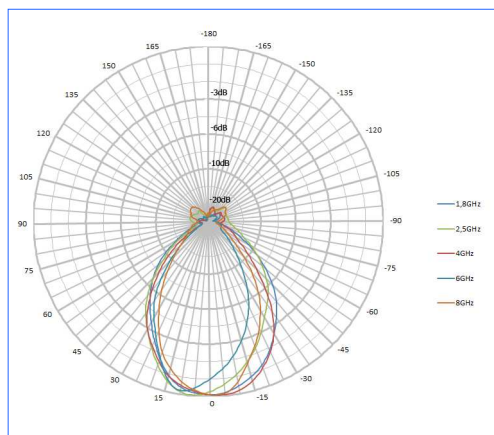
Antenna factor HyperLOG 4040



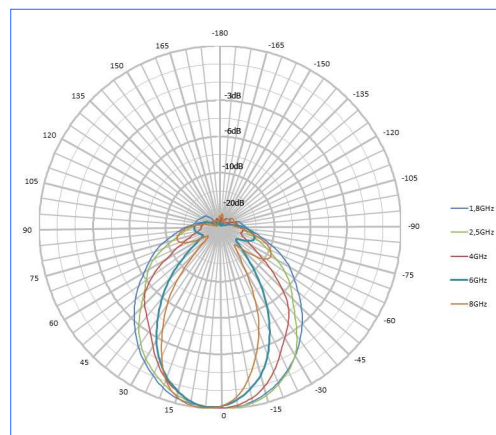
Antenna factor HyperLOG 4060



Horizontal Pattern HyperLOG 40xx Serie



Vertikal Pattern HyperLOG 40xx Serie



Description



HyperLOG 40xx 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® 40xx 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 LogPer antennas of the HyperLOG® 40xx series are identical to those of the 70xx series, but have an enhanced frequency range down to 400MHz, particularly for covering the 70cm amateur radio band (430 MHz and up). Consequently, the dimensions of the antennas had to be increased significantly.



Spectrum Analyser and HyperLOG® directional antenna

Included with delivery: A sturdy aluminum design carrycase with custom padding for the antenna, cables and accessories. Furthermore, every antenna of the HyperLOG® 40xx series includes a detachable multi-functional pistol grip with "miniature-tripod" mode and an appropriate SMA toolset.