

Rev 1.1
16.01.2016

High Power Horn Antennas - PowerLOG® Series

Frequency Range 700MHz - 18GHz, High Gain and High Max. Power

Highlights:

- ◆ Supports very high power up to 500W (peak)
- ◆ Ultra wide frequency range, max. 700MHz to 18GHz
- ◆ Incl. specific calibration data
- ◆ Perfectly usable for EMC immunity tests with very high field strength
- ◆ Robust N-connector (female)
- ◆ Compact design, lightweight
- ◆ 10 years warranty
- ◆ Made in Germany

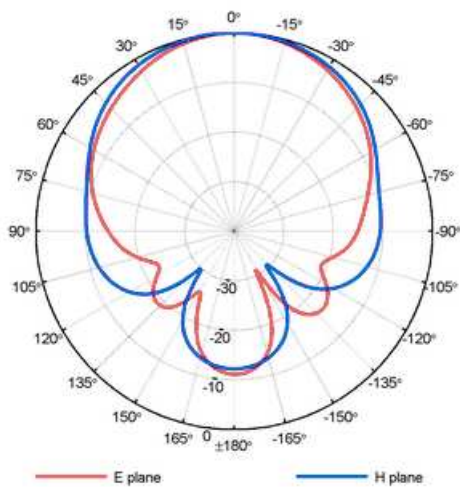


Made in Germany



PowerLOG 10800

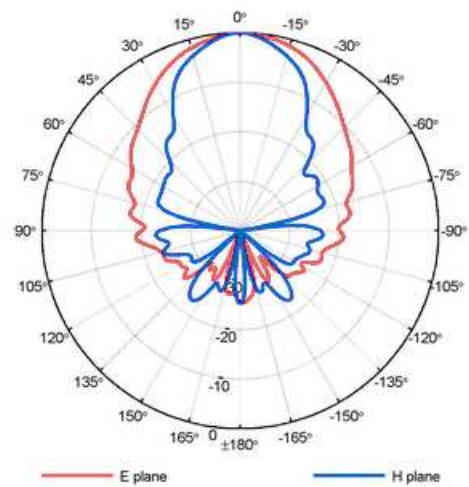
- ◆ Frequency range: **1GHz - 8GHz**
- ◆ Max. Input Power: **400W (peak), 200W (CW)**
- ◆ Gain: **4 to 13dBi**
- ◆ VSWR (typ): < 2,5:1
- ◆ Design: Double Ridge Horn
- ◆ Nominal impedance: 50 Ohm
- ◆ RF-connector: N (female)
- ◆ Temperature range: - 40°C to +85°C
- ◆ Dimensions (L/W/D): 235 x 252 x 175 mm
- ◆ Relative Humidity: 0% to 95%
- ◆ Weight: 1400gr
- ◆ RoHs compliant
- ◆ Incl. Specific Calibration Data and mounting plate
- ◆ **Warranty: 10 years**



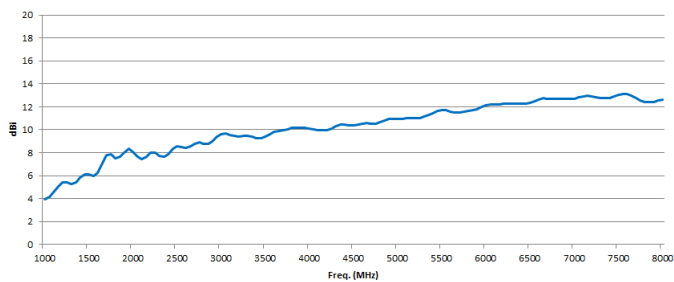
Typ. 1GHz Pattern

PowerLOG 70180

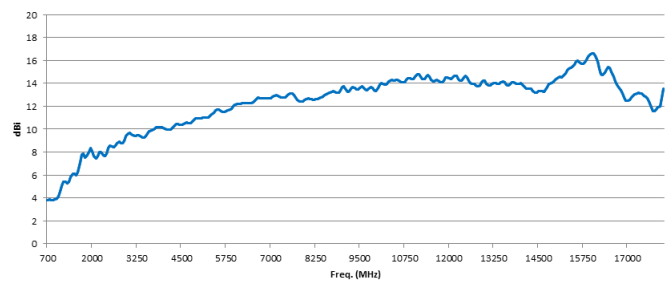
- ◆ Frequency range: **700MHz - 18GHz**
- ◆ Max. Input Power: **500W (peak), 300W (CW)**
- ◆ Gain: **2 to 17dBi**
- ◆ VSWR (typ): < 3:1
- ◆ Design: Double Ridge Horn
- ◆ Nominal impedance: 50 Ohm
- ◆ RF-connector: N (female)
- ◆ Temperature range: - 40°C to +85°C
- ◆ Dimensions (L/W/D): 235 x 252 x 175 mm
- ◆ Relative Humidity: 0% to 95%
- ◆ Weight: 1400gr
- ◆ RoHs compliant
- ◆ Incl. Specific Calibration Data and mounting plate
- ◆ **Warranty: 10 years**



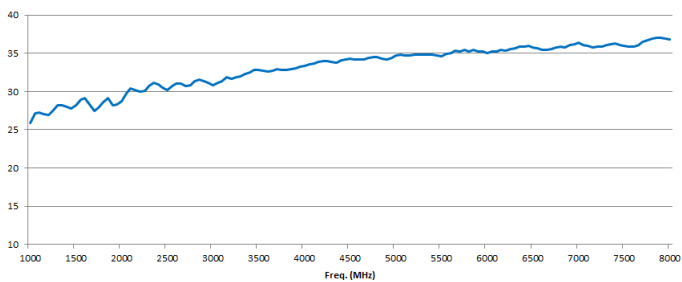
Typ. 3GHz Pattern



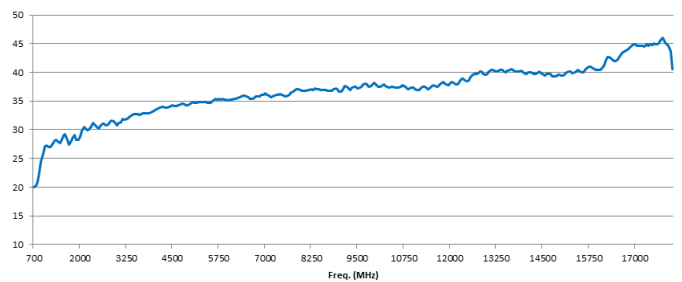
Gain PowerLOG 10800



Gain PowerLOG 70180



Antenna Factor PowerLOG 10800



Antenna Factor PowerLOG 70180

Recommended accessories for Aaronia PowerLOG

Heavy Tripod (strongly recommended!)

Highly recommend for the usage of PowerLOG antennas. Quick and easy change of antenna polarization, perfect antenna handling. Robust and sturdy. Incl. transport bag.

Order/Art.-No.: 284



SMA to N Adapter

This special high quality adapter allows operation of all PowerLOG®-Antennas with any spectrum-analyzer with SMA connector, e.g. the SPECTRAN series. 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



1m / 5m / 10m SMA-Cable

High quality special SMA cable for connecting any PowerLOG®-Antenna with various test equipment like SPECTRAN 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)
(requires SMA to N Adapter for connection to PowerLOG)

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



1m / 5m / 10m SMA-Cable with tightening nut

Same as above but incl. extremely practical tightening nut for easy installation of the cable without any additional tool. Guarantees no fumbling anymore!

All versions: SMA plug (male) / SMA plug (male)
(requires SMA to N Adapter for connection to PowerLOG)

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



References

Cross-Section of Aaronia 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 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
- ◆ Audi, Germany
- ◆ BMW, Germany
- ◆ Daimler, Germany
- ◆ Volkswagen, Germany
- ◆ BASF, Germany
- ◆ Siemens AG, Germany
- ◆ Rohde & Schwarz, Germany
- ◆ Infineon, Austria
- ◆ Philips, Germany
- ◆ ThyssenKrupp, Germany
- ◆ EnBW, Germany
- ◆ RTL Television, Germany
- ◆ Pro Sieben – SAT 1, Germany
- ◆ Channel 6, United Kingdom
- ◆ CNN, USA
- ◆ Duracell, USA
- ◆ German Telekom, Germany
- ◆ Bank of Canada, Canada
- ◆ NBC News, USA
- ◆ Sony, Germany
- ◆ Anritsu, Germany
- ◆ Hewlett Packard, Germany
- ◆ Robert Bosch, Germany
- ◆ Mercedes Benz, Austria
- ◆ Osram, Germany
- ◆ DEKRA, Germany
- ◆ AMD, Germany
- ◆ Keysight, China
- ◆ Infineon Technologies, Germany
- ◆ Philips Semiconductors, Germany
- ◆ Hyundai Europe, Germany
- ◆ JDSU, Korea
- ◆ IBM Deutschland, Germany
- ◆ Nokia-Siemens Networks, Germany



Made in Germany

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