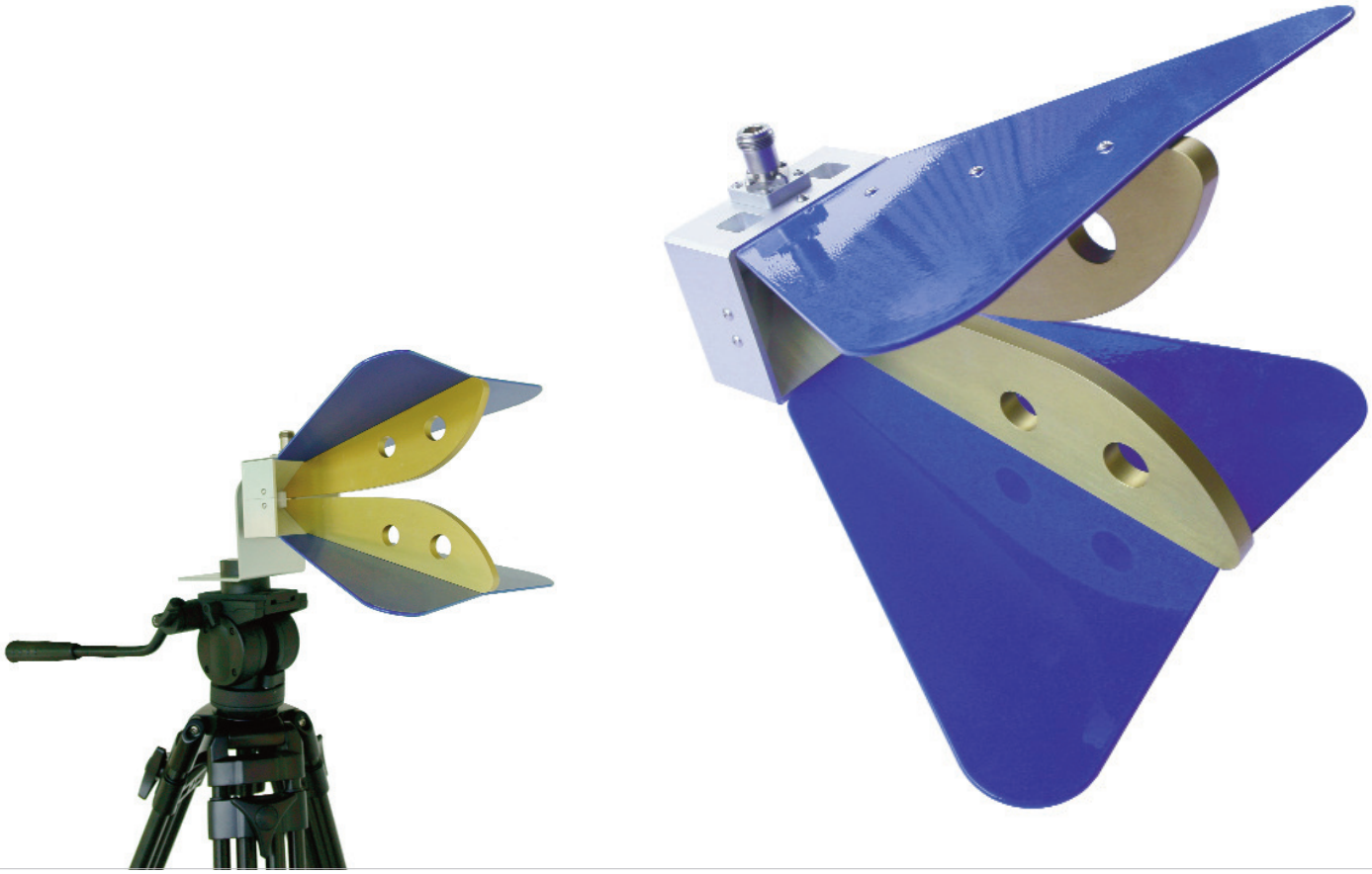

Rev 1.0
08.07.2014

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

AARONIA AG
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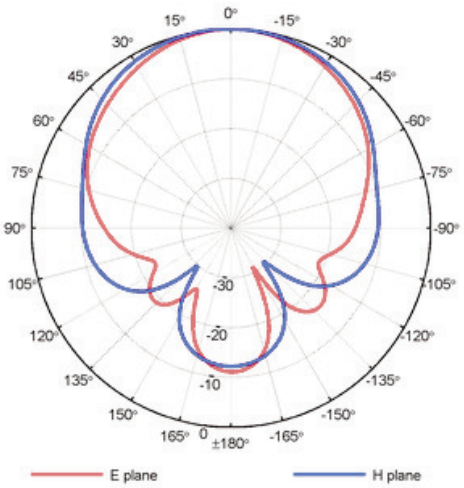
Made in Germany

PowerLOG 10800

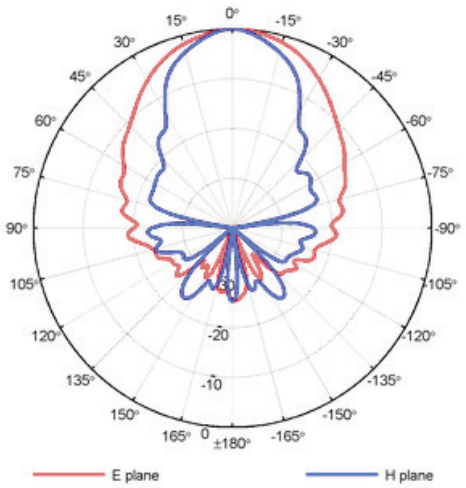
- Frequency range: **1GHz - 8GHz**
- Max. Input Power: **400W (peak), 200W (CW)**
- Gain: **4 to 13dBi**
- VSWR (typ): < 2,5:1
- Design: Double Ridge Horn
- Nominal impedance: 50 Ohm
- RF-connector: N (female)
- Temperature range: - 40°C to +85°C
- Dimensions (L/W/D): 235 x 252 x 175 mm
- Relative Humidity: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

PowerLOG 70180

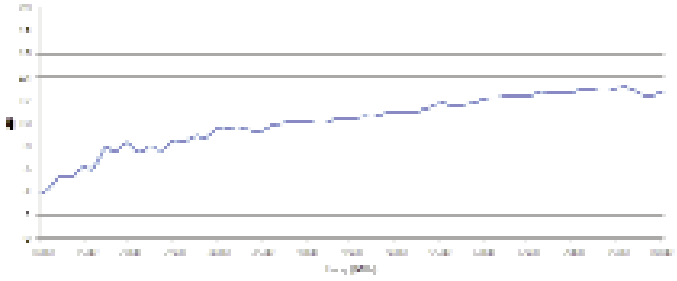
- Frequency range: **700MHz - 18GHz**
- Max. Input Power: **500W (peak), 300W (CW)**
- Gain: **2 to 17dBi**
- VSWR (typ): < 3:1
- Design: Double Ridge Horn
- Nominal impedance: 50 Ohm
- RF-connector: N (female)
- Temperature range: - 40°C to +85°C
- Dimensions (L/W/D): 235 x 252 x 175 mm
- Relative Humidity: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



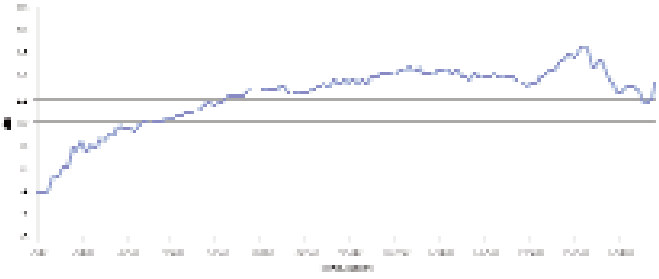
Typ. 1GHz Pattern



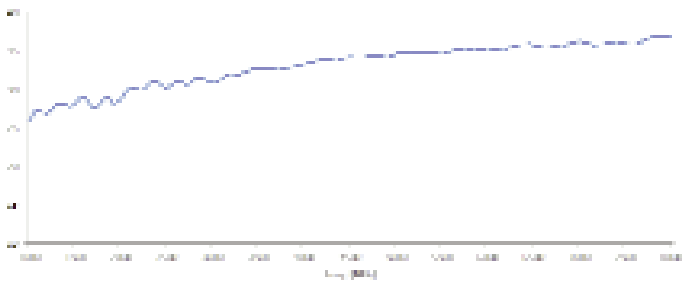
Typ. 3GHz Pattern



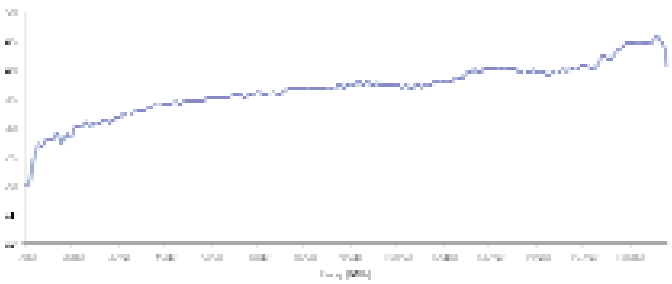
Gain PowerLOG 10800



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 pratical 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

User of Aaronia Antennas and Spectrum Analyzers (Examples)

Government, Military, aeronautic, astronautic

- NATO, Belgien
- Boeing, USA
- Airbus, Hamburg
- Bund (Bundeswehr), Leer
- Bundeswehr (Technische Aufklärung), Hof
- Lufthansa, Hamburg
- DLR (Deutsches Zentrum für Luft- und Raumfahrt, Stuttgart
- Eurocontrol (Flugüberwachung), Belgien
- Australian Government Department of Defence, Australien
- EADS (European Aeronautic Defence & Space Company) GmbH, Ulm
- Institut für Luft- und Raumfahrtmedizin, Köln
- Deutscher Wetterdienst, Tauche
- Polizeipräsidium, Bonn
- Landesamt für Umweltschutz Sachsen-Anhalt, Halle
- Zentrale Polizeitechnische Dienste, NRW
- Bundesamt für Verfassungsschutz, Köln
- BEV (Bundesamt für Eich- und Vermessungswesen)

Research/Development, Science and Universitys

- Deutsches Forschungszentrum für Künstliche Intelligenz, Kaiserslautern
- Universität Freiburg
- Indonesien Institute of Sience, Indonesien
- Max-Planck-Institut für Polymerforschung, Mainz
- Los Alamos National Labratory, USA
- University of Bahrain, Bahrain
- University of Florida, USA
- Universität Erlangen, Erlangen
- Universität Hannover, Hannover
- University of Newcastle, Großbritannien
- Universität Strasbourg, Frankreich
- Universität Frankfurt, Frankfurt
- Uni München – Fakultät für Physik, Garching
- Technische Universität Hamburg, Hamburg
- Max-Planck Institut für Radioastronomie, Bad Münstereifel
- Max-Planck-Institut für Quantenoptik, Garching
- Max-Planck-Institut für Kernphysik, Heidelberg
- Max-Planck-Institut für Eisenforschung, Düsseldorf
- Forschungszentrum Karlsruhe, Karlsruhe

Industry

- Shell Oil Company, USA
- ATI, USA
- Fedex, USA
- Walt Disney, Kalifornien, USA
- Agilent Technologies Co. Ltd., China
- Motorola, Brasilien
- IBM, Schweiz
- Audi AG, Neckarsulm
- BMW, München
- Daimler AG, Bremen
- BASF, Ludwigshafen
- Deutsche Bahn, Berlin
- Deutsche Telekom, Weiden
- Siemens AG, Erlangen
- Rohde & Schwarz, München
- Infineon, Österreich
- Philips Technologie GmbH, Aachen
- ThyssenKrupp, Stuttgart
- EnBW, Stuttgart
- RTL Television, Köln
- Pro Sieben – SAT 1, Unterföhring
- Channel 6, Großbritannien
- WDR, Köln
- NDR, Hamburg
- SWR, Baden-Baden
- Bayerischer Rundfunk, München
- Carl-Zeiss-Jena GmbH, Jena
- Anritsu GmbH, Düsseldorf
- Hewlett Packard, Dornach
- Robert Bosch GmbH, Plochingen
- Mercedes Benz, Österreich
- EnBW Kernkraftwerk GmbH, Neckarwestheim
- AMD, Dresden
- Infineon Technologies, Regensburg
- Intel GmbH, Feldkirchen
- Philips Semiconductors, Nürnberg
- Hyundai Europe, Rüsselsheim
- Saarschmiede GmbH, Völklingen
- Wilkinson Sword, Solingen
- IBM Deutschland, Stuttgart
- Vattenfall, Berlin
- Fraport, Frankfurt

AARONIA AG
WWW.AARONIA.DE

AP FLYER

AP-FLYER Sp. z o.o.
ul. Trakt Lubelski 336, 04-667 Warszawa
tel.: +48 22 613 0487, fax.: +48 22 613 0612
www.ap-flyer.pl info@ap-flyer.pl