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Rev 1.1
08.09.2014

Radial-Isotropic Ultra Broadband Antenna OmniLOG® 70600

Frequency Range 680MHz - 6GHz, High Gain

Highlights:

- Wide frequency range 680MHz to 6GHz
- Perfectly usable with Spectrum Analyzers for omnidirectional measurements
- SMA-connector with heavy-duty 90° knuckle base
- Very compact design, lightweight
- 10 years warranty
- Made in Germany

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Ultra Broadband - Without Compromise

Aaronia introduces the new ultra-broadband OmniLOG 70600, a small and compact broadband omnidirectional antenna designed to measure field strength without the need to move the antenna to the source.

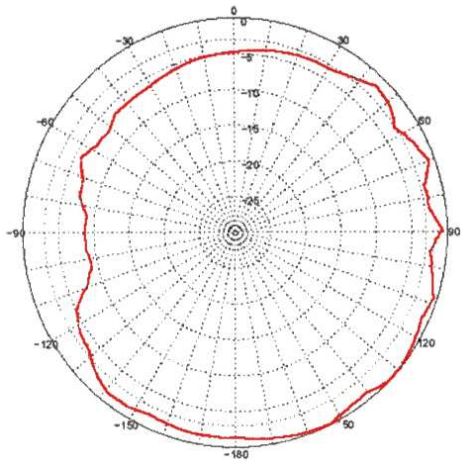
The OmniLOG 70600 antenna allows a direct field strength reading useful for measurements of exposure limits. Measuring 173mm x 63mm x 9mm (LxWxH) and weighing 54g, the antenna covers a wide frequency range of 680MHz to 6GHz. Unless it´s very compact size it reaches a very high gain of up to -3dBi. The frequency range covers the complete 2G/3G/4G cellular, 2,4GHz / 5GHz Wi-Fi, ISM 434, ISM 868 etc. and GPS / GNSS bands within its range.

Features also include linear polarisation, impedance of 50 Ohms, operating temperature range of -40°C to +85°C, and SMA (male) RF connection. The antenna offers a heavy-duty 90-degree knuckle base with the SMA connector. The knuckle base is freely adjustable into each position and fixed by two special ball pressure screws.

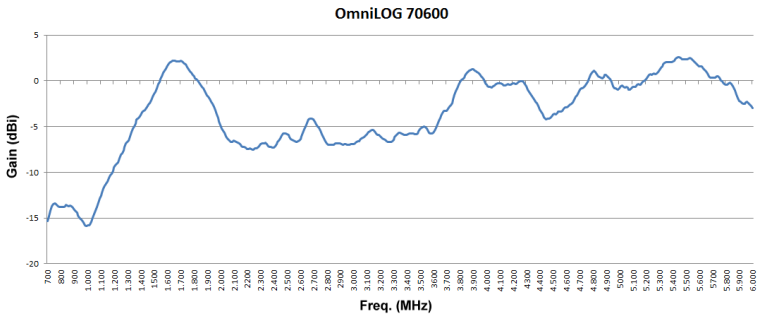
The OmniLOG 70600 antennas fit perfectly to any Spectrum Analyzer and can also be used with any Oscilloscope or RF Meter. Aaronia´s PC analysis software MCS is fully supported allowing to use the antenna for field strength measurement.

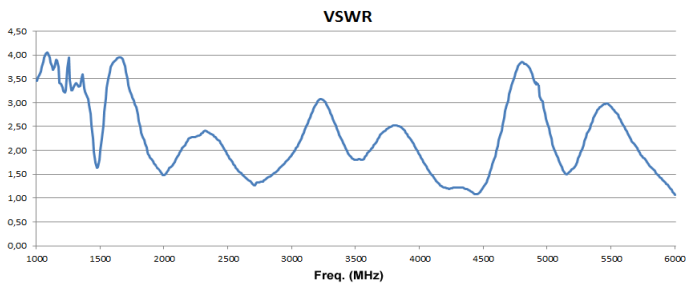
Technical Data

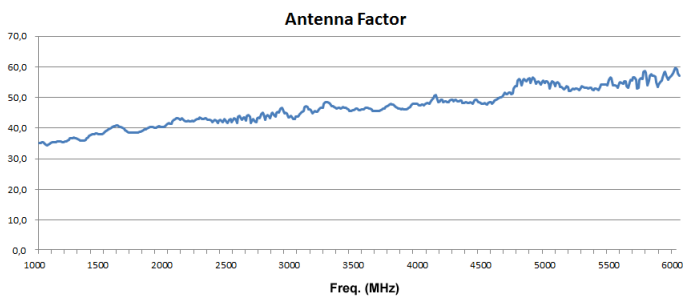
- Frequency range: 680MHz - 6GHz
- Design: Omni-directional
- Nominal impedance: 50 Ohm
- Polarisation: Linear
- VSWR (typ): < 3:1
- Max. Input Power: 5 Watts
- RF-connector: SMA (male)
- Temperature range: - 40°C to +85°C
- Dimensions (L/W/D): 173 x 62 x 9 mm
- Relative Humidity: 0% to 95%
- Weight: 54gr
- RoHs compliant
- **Warranty: 10 years**



Typ. Horizontal Pattern







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 Chrysler 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