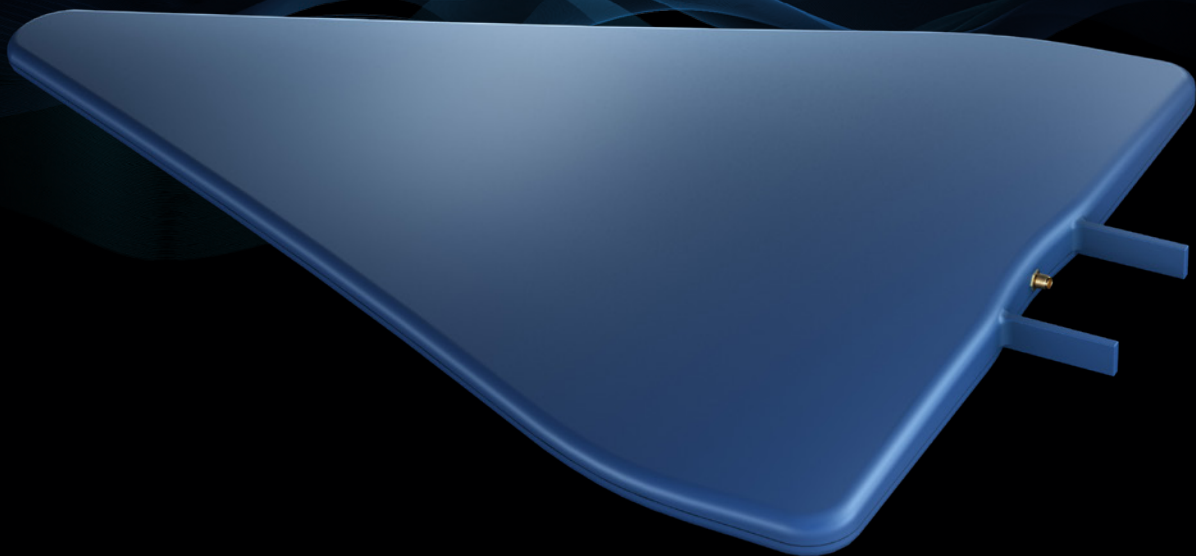


LOGPER ANTENNAS

# HYPERLOG<sup>®</sup>

30 SERIES

All-in-one broadband antenna for the entire frequency range from 380 MHz to 35 GHz



✓ Optimal for EMC measurements  
with spectrum analyzers

✓ Polarization can be freely aligned  
✓ Suitable for mobile use



Gewerbegebiet Aeronia AG II

Phone: +49 6556 900310

MADE IN GERMANY



ES France - Département RF & Hyperfréquences  
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 60



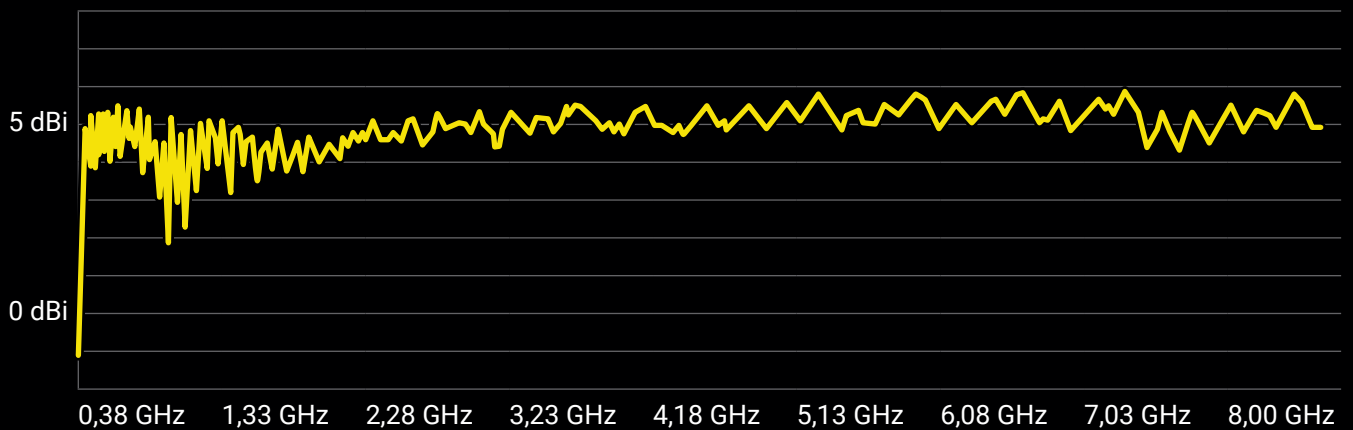
e-mail : [hyper@es-france.com](mailto:hyper@es-france.com)  
Site Web : [www.es-france.com](http://www.es-france.com)

# Specifications

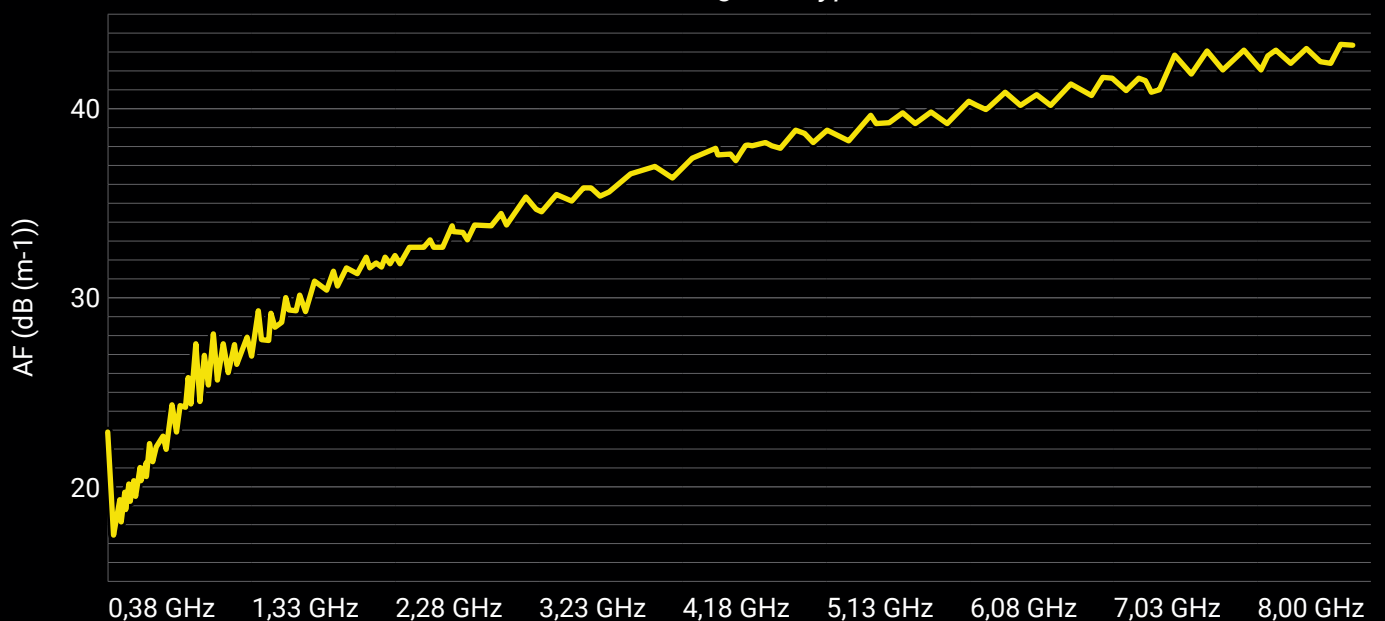
## HyperLOG® 3080

Dimensions [L x W x D]	590 x 360 x 30 mm	Nominal Impedance	50 Ohm
Weight	1000 g	Calibration Points	763 (10 MHz steps)
Design	Log-periodical	VSWR (typ.)	< 2,5
Gain (typ.)	max. 6 dBi	Max. Transmission Power	100 W CW (400 MHz)
RF Connection	SMA (f)	Antenna Factor	20 – 43 dB/m
Frequency Range	380 MHz – 8 GHz	Warranty	2 years

Gain Diagram HyperLOG® 3080



Antenna Factor Diagram HyperLOG® 3080

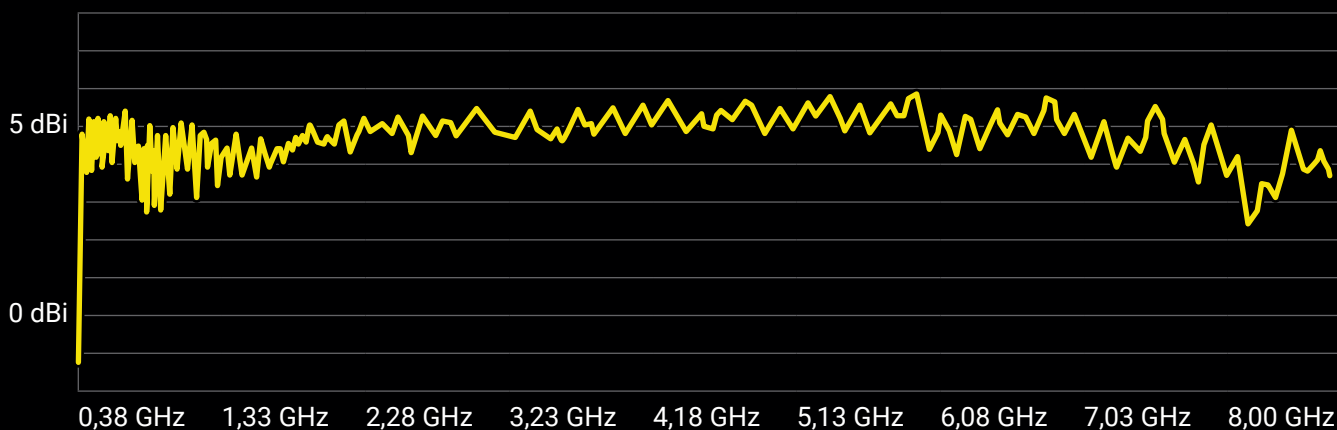


# Specifications

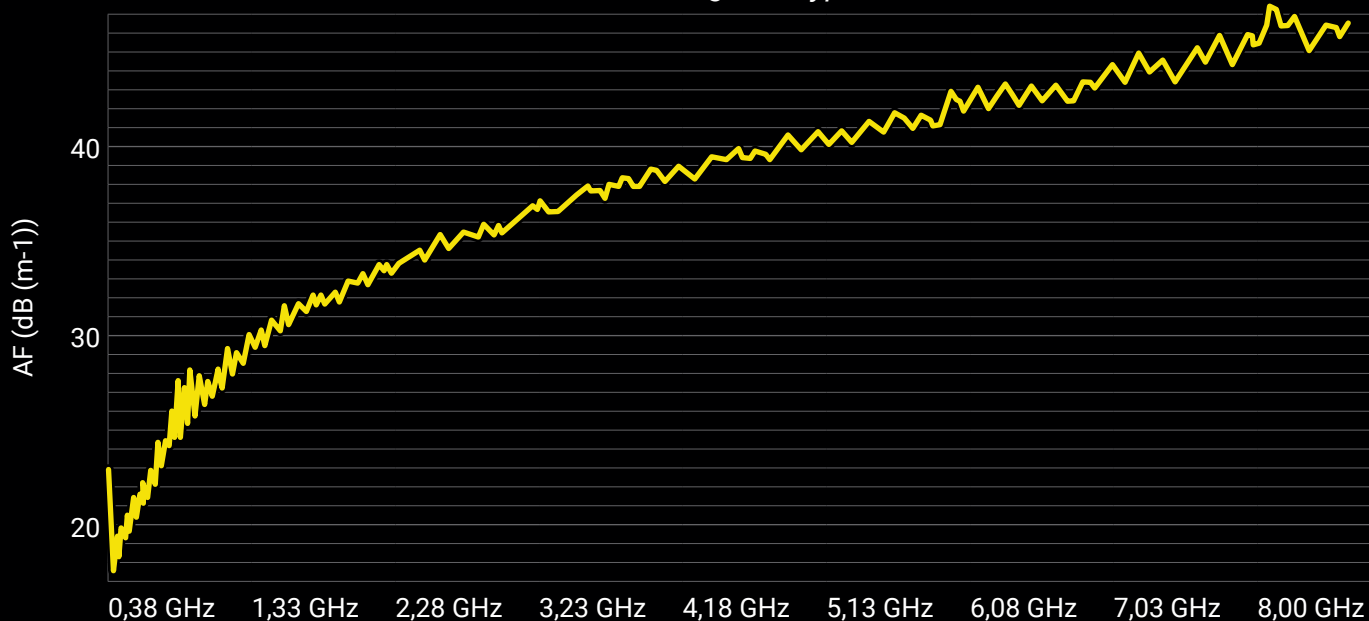
## HyperLOG® 30100

Dimensions [L x W x D]	590 x 360 x 30 mm	Nominal Impedance	50 Ohm
Weight	1000 g	Calibration Points	963 (10 MHz steps)
Design	Log-periodical	VSWR (typ.)	< 2,5
Gain (typ.)	max. 6 dBi	Max. Transmission Power	100 W CW (400 MHz)
RF Connection	SMA (f)	Antenna Factor	20 – 46 dB/m
Frequency Range	380 MHz – 10 GHz	Warranty	2 years

Gain Diagram HyperLOG® 30100



Antenna Factor Diagram HyperLOG® 30100

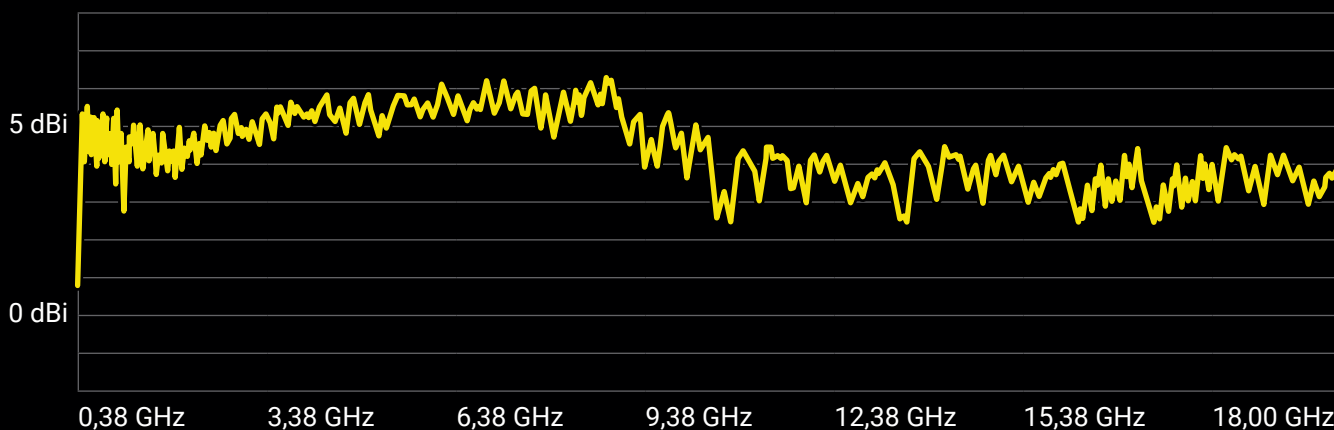


# Specifications

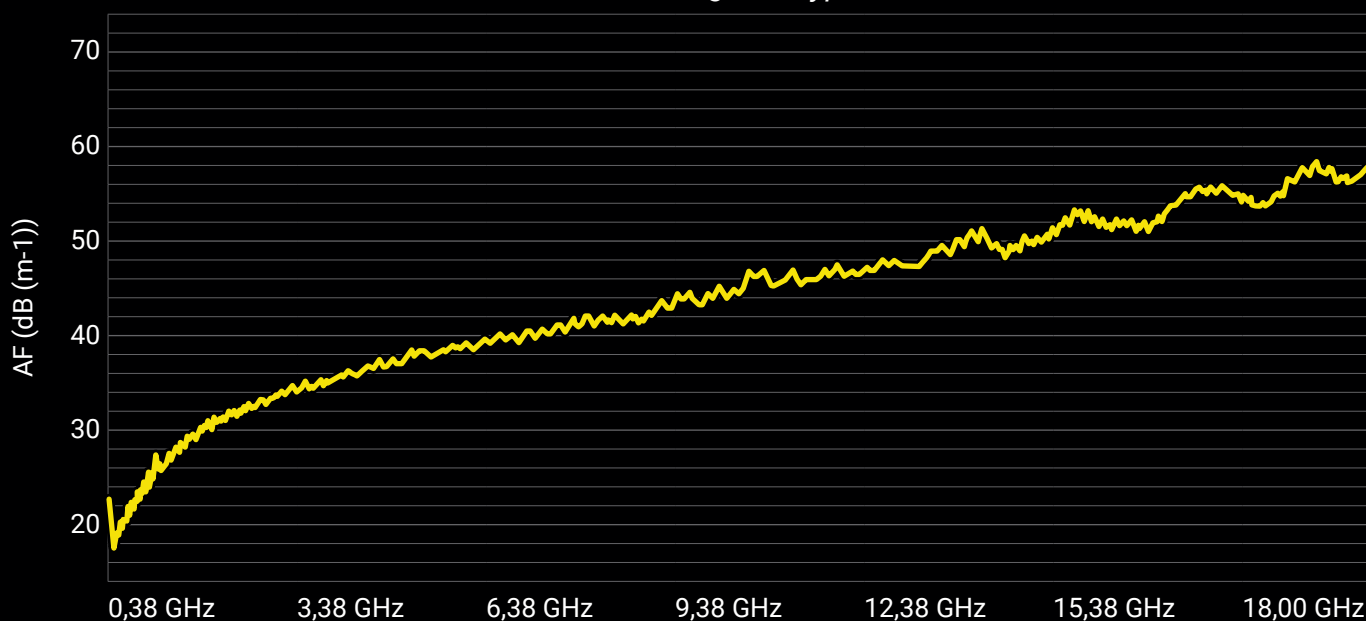
## HyperLOG® 30180

Dimensions [L x W x D]	590 x 360 x 30 mm	Nominal Impedance	50 Ohm
Weight	1000 g	Calibration Points	1763 (10 MHz steps)
Design	Log-periodical	VSWR (typ.)	< 2,5
Gain (typ.)	max. 6 dBi	Max. Transmission Power	100 W CW (400 MHz)
RF Connection	SMA (f)	Antenna Factor	20 – 55 dB/m
Frequency Range	380 MHz – 18 GHz	Warranty	2 years

Gain Diagram HyperLOG® 30180



Antenna Factor Diagram HyperLOG® 30180

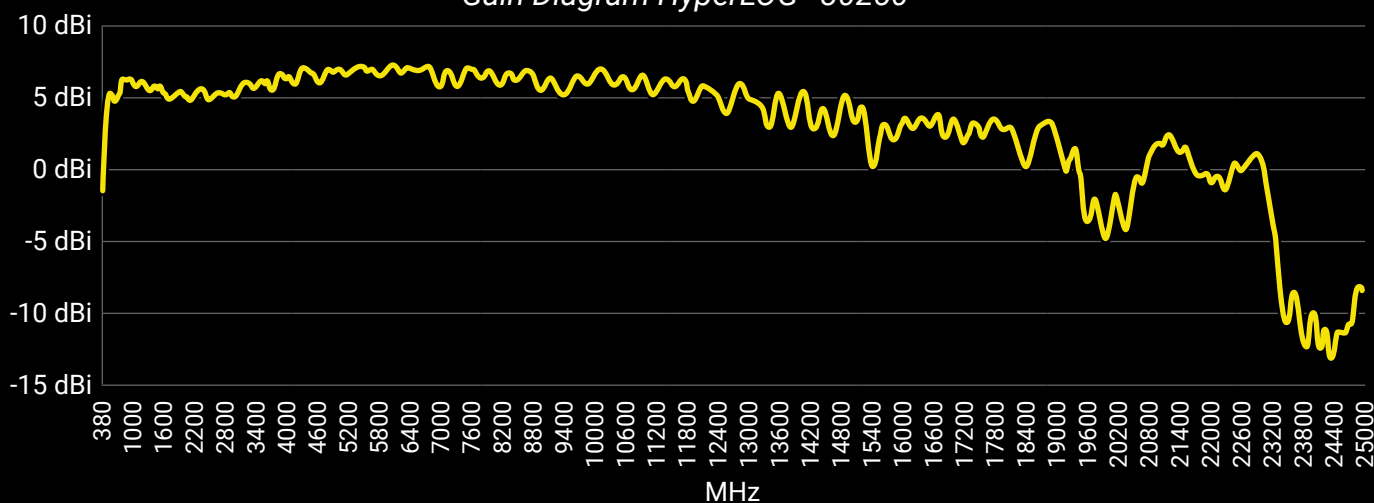


# Specifications

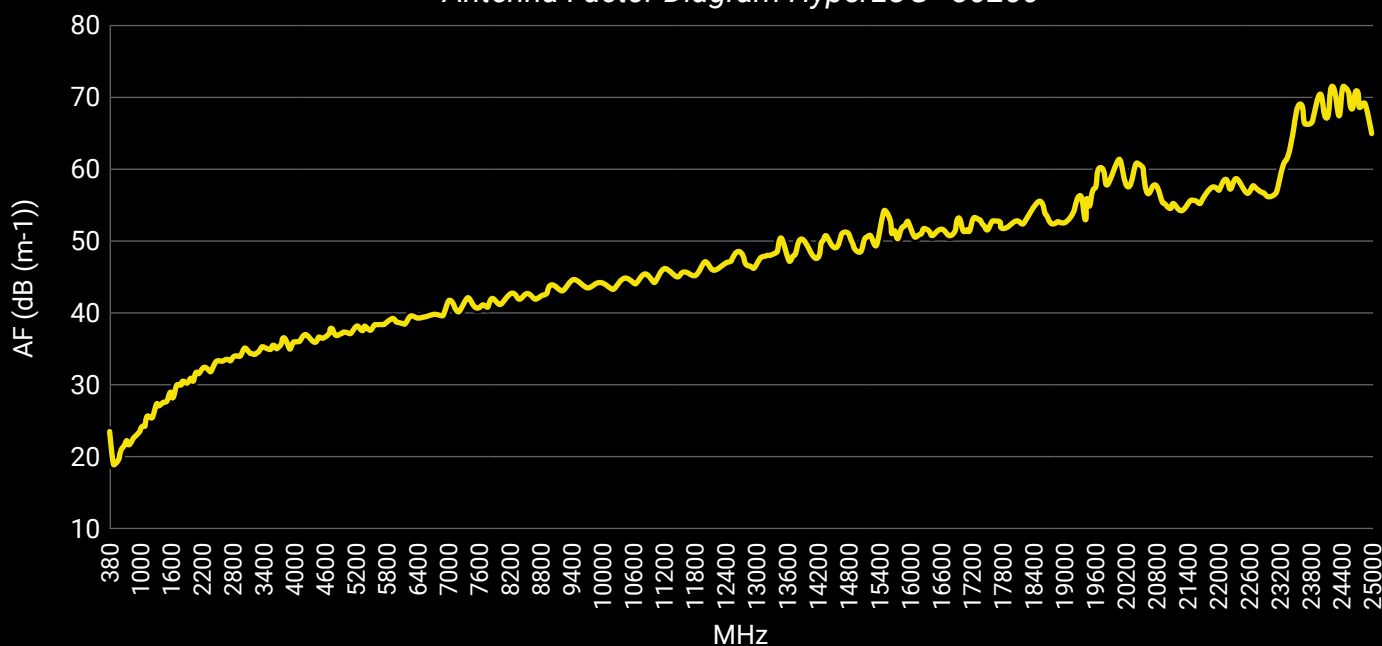
## HyperLOG® 30250

Dimensions [L x W x D]	590 x 360 x 30 mm	Nominal Impedance	50 Ohm
Weight	1000 g	Calibration Points	493 (50 MHz steps)
Design	Log-periodical	VSWR (typ.)	< 2,5
Gain (typ.)	max. 6 dBi	Max. Transmission Power	100 W CW (400 MHz)
RF Connection	K (2.92mm)	Antenna Factor	20 – 55 dB/m
Frequency Range	380 MHz – 25 GHz	Warranty	2 years

Gain Diagram HyperLOG® 30250



Antenna Factor Diagram HyperLOG® 30250

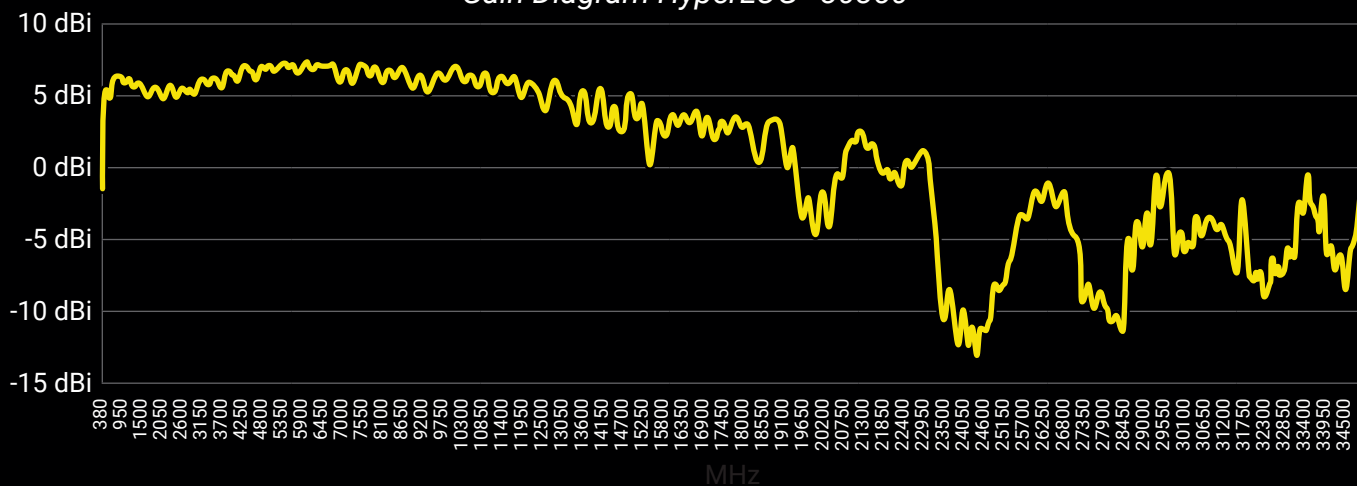


# Specifications

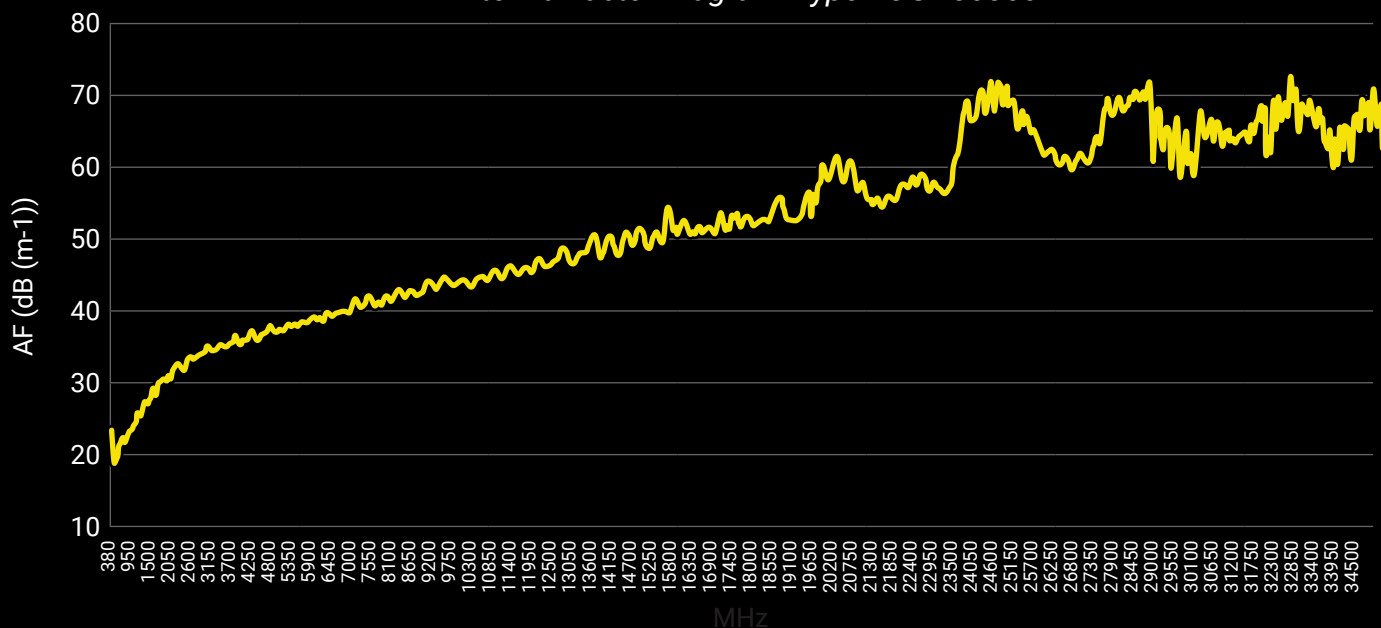
## HyperLOG® 30350

Dimensions [L x W x D]	590 x 360 x 30 mm	Nominal Impedance	50 Ohm
Weight	1000 g	Calibration Points	693 (50 MHz steps)
Design	Log-periodical	VSWR (typ.)	< 2,5
Gain (typ.)	max. 6 dBi	Max. Transmission Power	100 W CW (400 MHz)
RF Connection	K (2.92mm)	Antenna Factor	20 – 55 dB/m
Frequency Range	380 MHz – 35 GHz	Warranty	2 years

Gain Diagram HyperLOG® 30350



Antenna Factor Diagram HyperLOG® 30350



# Recommended Accessories

## Aluminum Tripod

Height adjustable, high stability. Recommended for use with HyperLOG® antennas.

Max. height: 105 cm.

Order/Art.-No.: 503/011



## Multifunctional Pistol Grip

(strongly recommended)

Highly recommended for our HyperLOG® antennas. Quick and easy antenna polarization change, guarantees perfectly stable antenna handling.

Order/Art.-No.: 503/012

## 1 m / 5 m / 10 m SMA Cable

High-quality special SMA cable, connecting test equipment to any HyperLOG® antenna. Customers can choose between three different cables:

- 1 m standard SMA cable (RG316U)
  - 5 m low-loss SMA cable (especially low damping)
  - 10 m low-loss SMA cable (especially low damping)
- All versions: SMA plug (male) / SMA plug (male)

Order/Art.-No.: 501/006 (1 m), 501/008 (5 m), 501/0010 (10 m)



## SMA to N Adapter

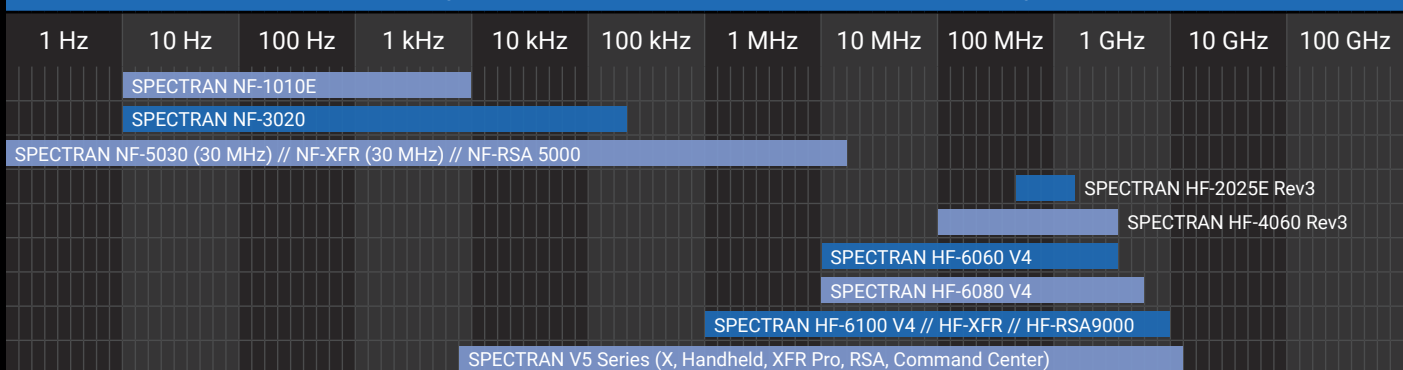
This special high-quality adapter allows for operating all HyperLOG® antennas with any standard spectrum analyzer equipped with an N connector. This adapter can be used with very high frequencies. Measuring just 30 x 20 mm in size, its nominal impedance is 50 Ohm. Layout: SMA socket (female) / N plug (male).

Order/Art.-No.: 502/009

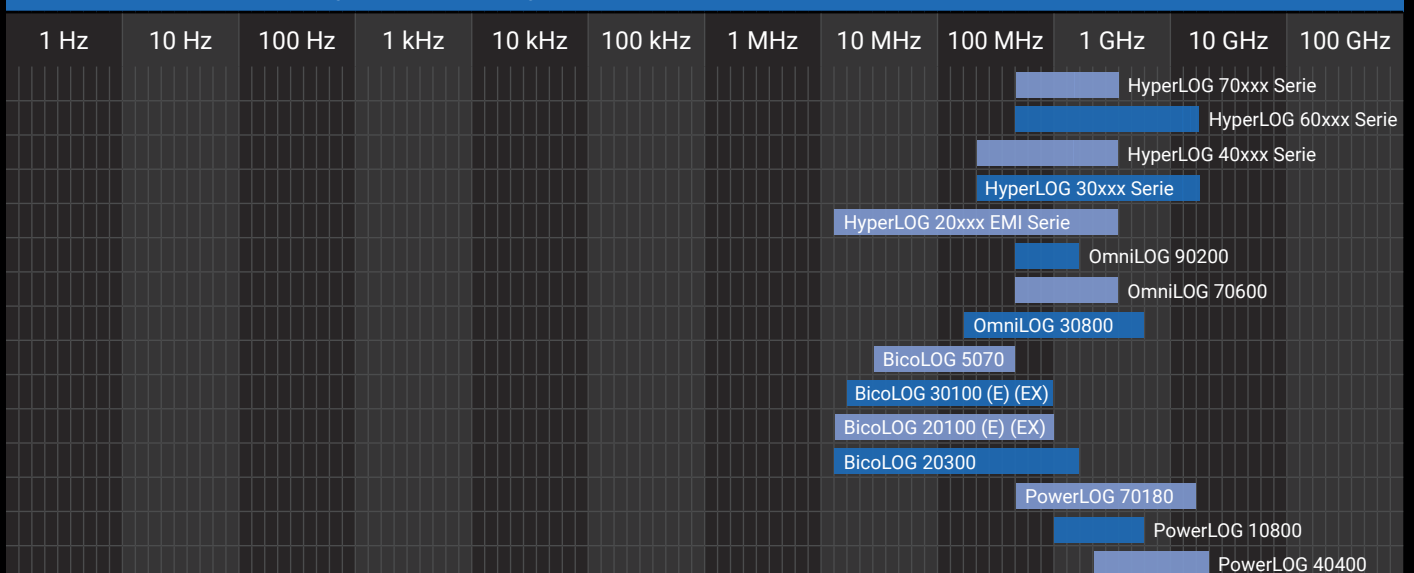


# Frequency Overviews

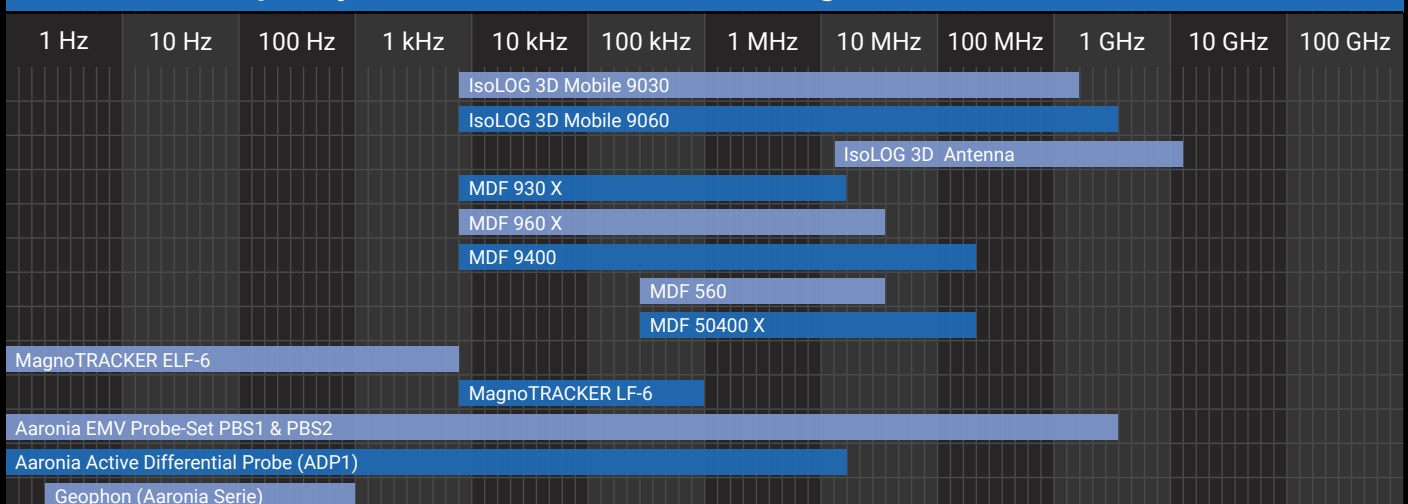
## Frequency Overview SPECTRAN® Spectrum Analyzers



## Frequency Overview HyperLOG®, BicoLOG® and PowerLOG® Antennas



## Frequency Overview IsoLOG® 3D, MDF, MagnoTRACKER® and Probes



# References



## Selected 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
- Indonesian Institute of Sciences, 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 Athens, Greece
- University of Munich, Germany
- Technical University of Hamburg, Germany
- Max Planck Inst. for Radio Astronomy, Germany
- Max Planck Inst. for Nuclear Physics, Germany
- Research Centre Karlsruhe, Germany

### Industry

- IBM, Switzerland
- Intel, Germany
- Shell Oil Company, USA
- ATI, USA
- Microsoft, USA
- Motorola, Brazil
- Audi, Germany
- BMW, Germany
- Daimler, Germany
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