

Product Datasheet - Technical Specifications



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LOGPER ANTENNAS

HYPERLOG[®]

30 SERIES

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



Highlights:

- Optimal for EMC measurements with spectrum analyzers
- Polarization can be freely aligned
- Suitable for mobile use

**AARONIA AG**
WWW.AARONIA.DE



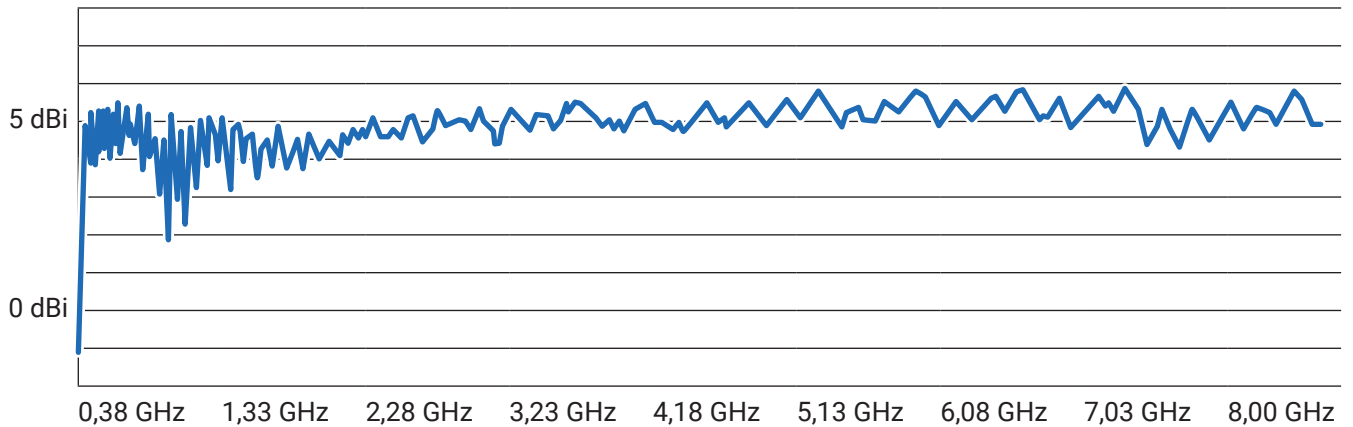
MADE IN GERMANY

Specifications

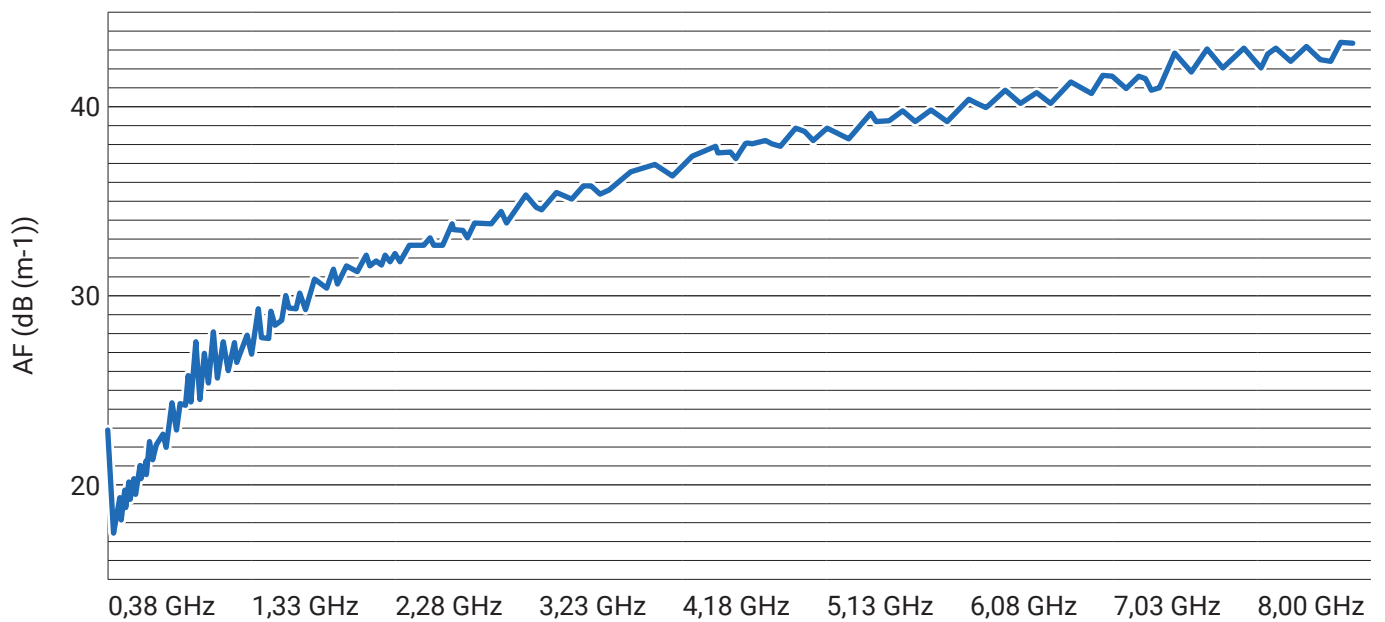
HyperLOG® 3080

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.)	4 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

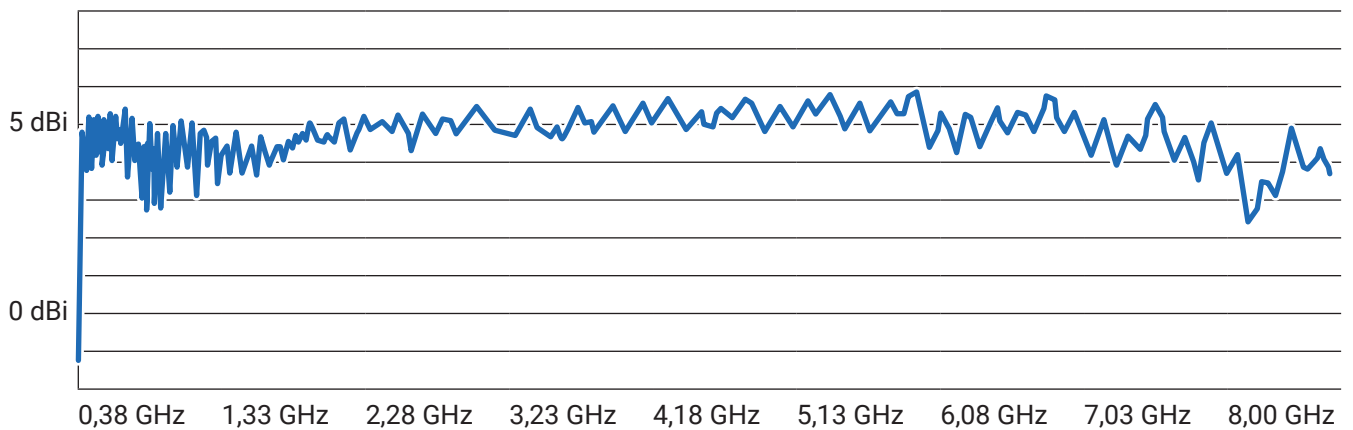


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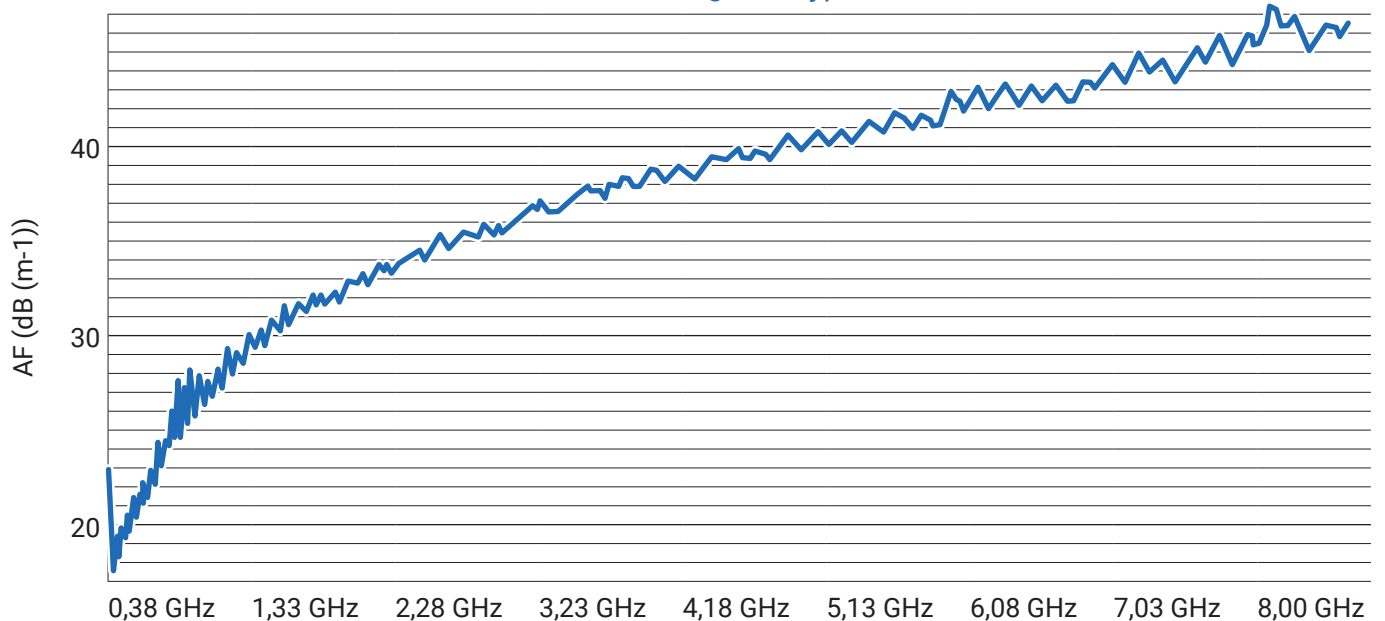
HyperLOG® 30100

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.)	5 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

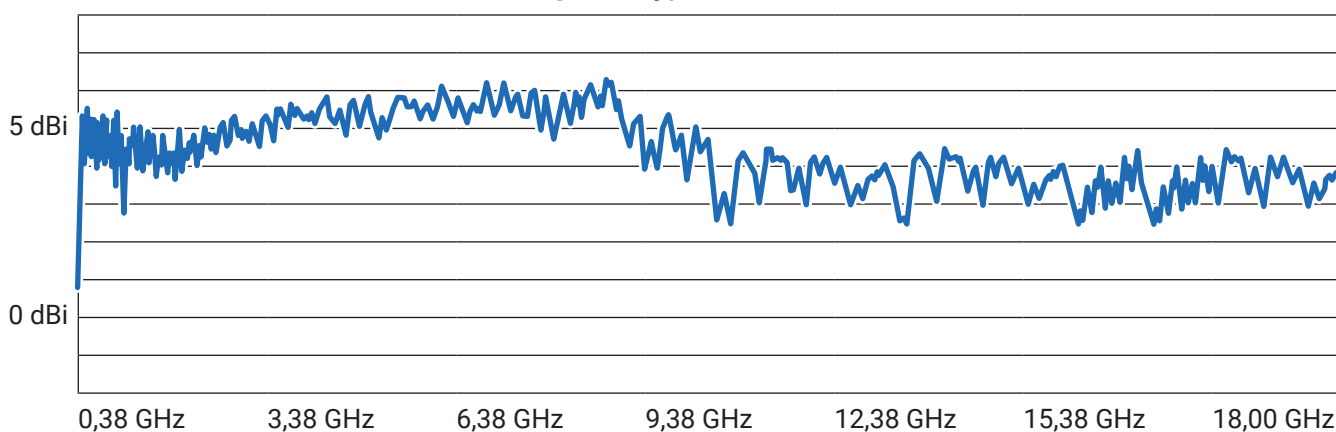


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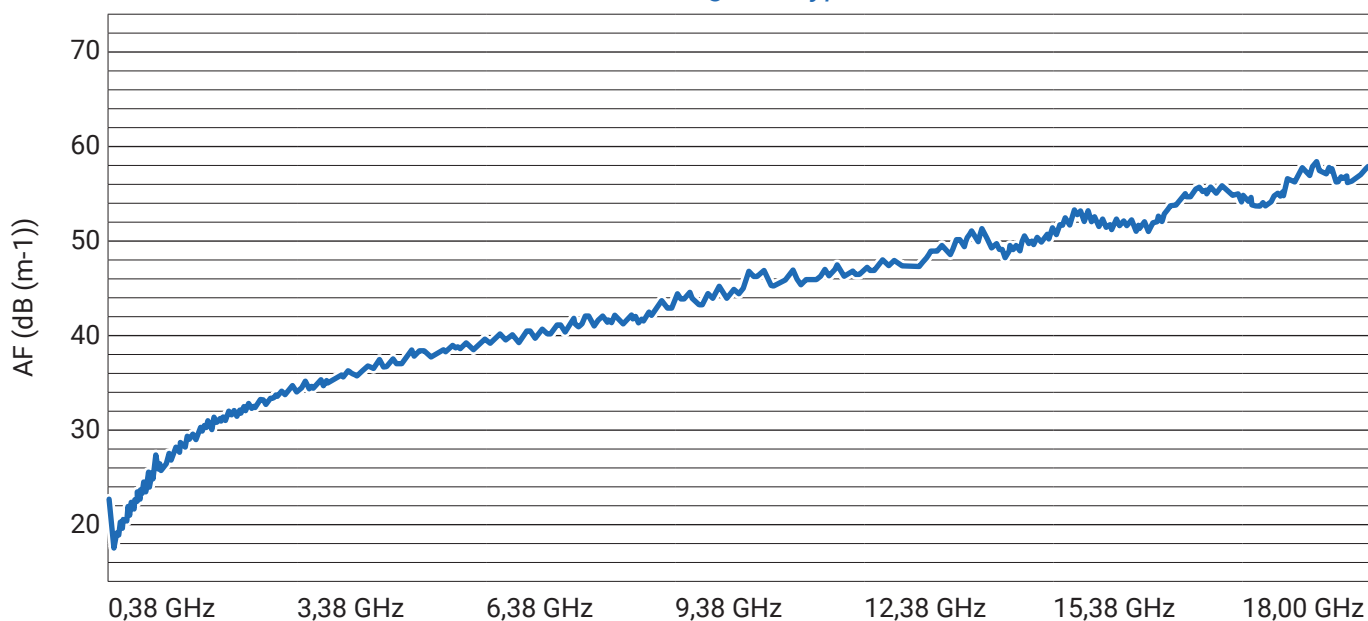
HyperLOG® 30180

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.)	5 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

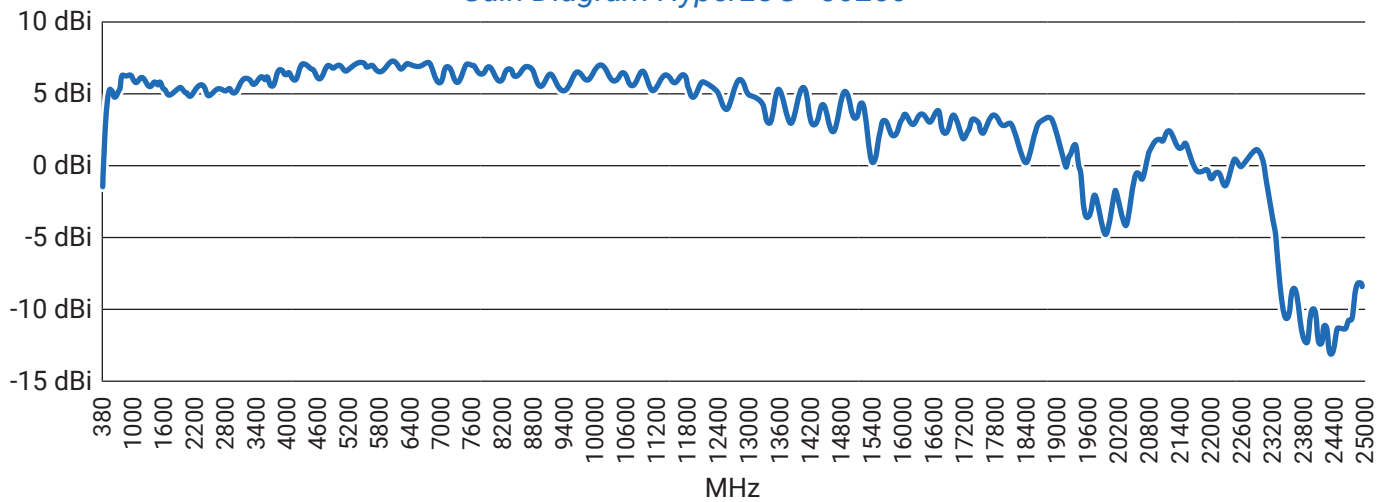


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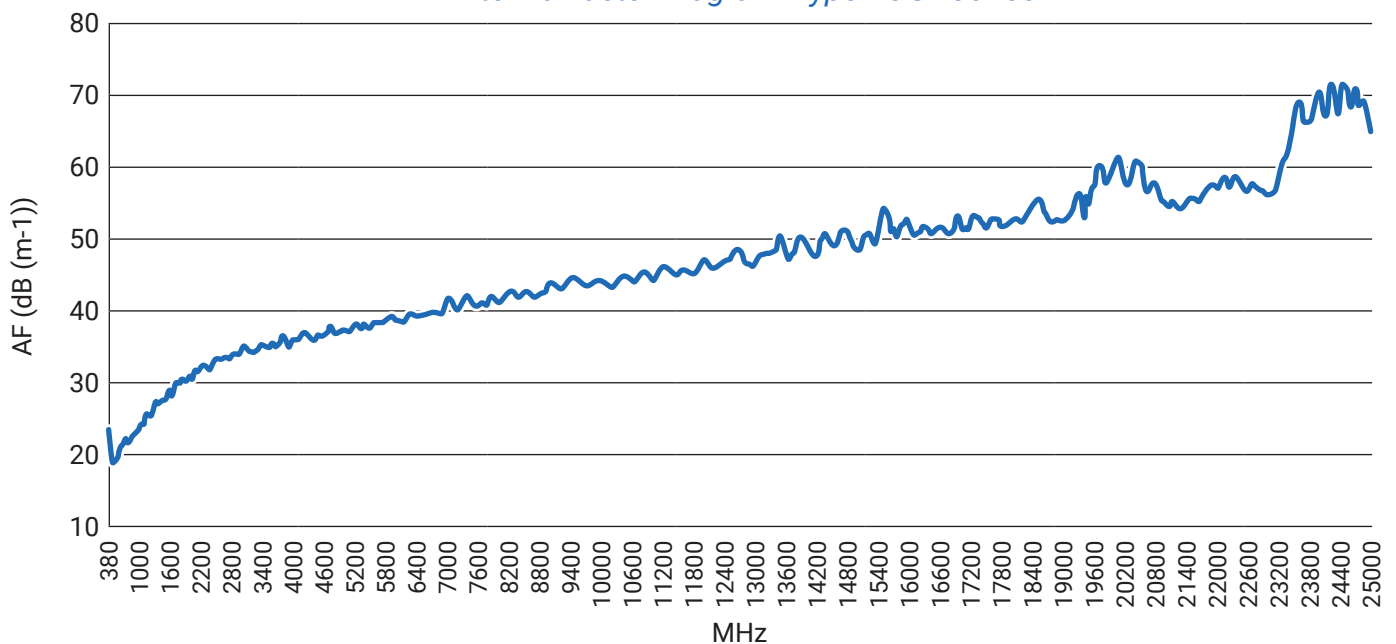
HyperLOG® 30250

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.)	5 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

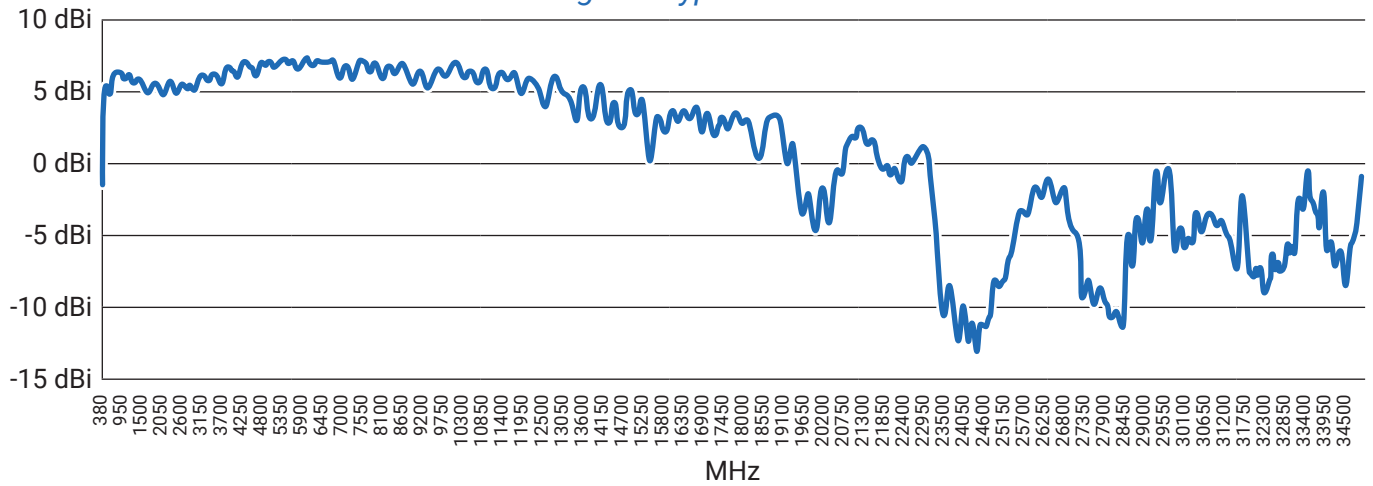


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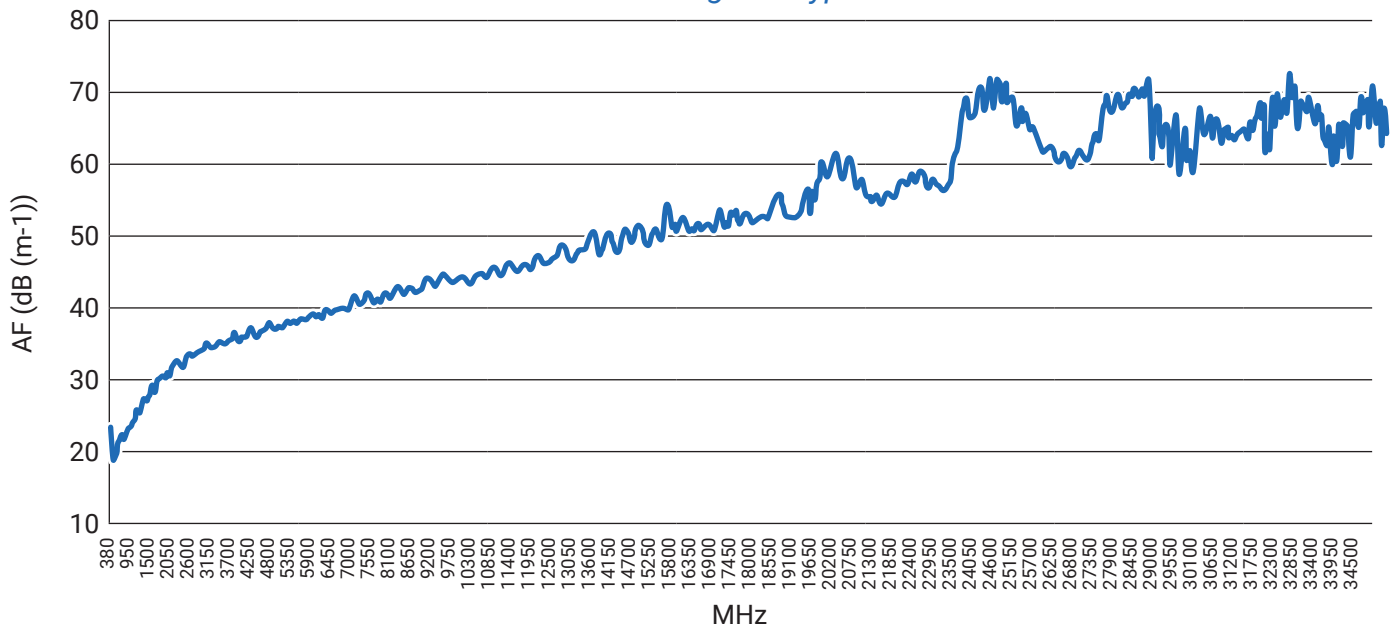
HyperLOG® 30350

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.)	5 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)

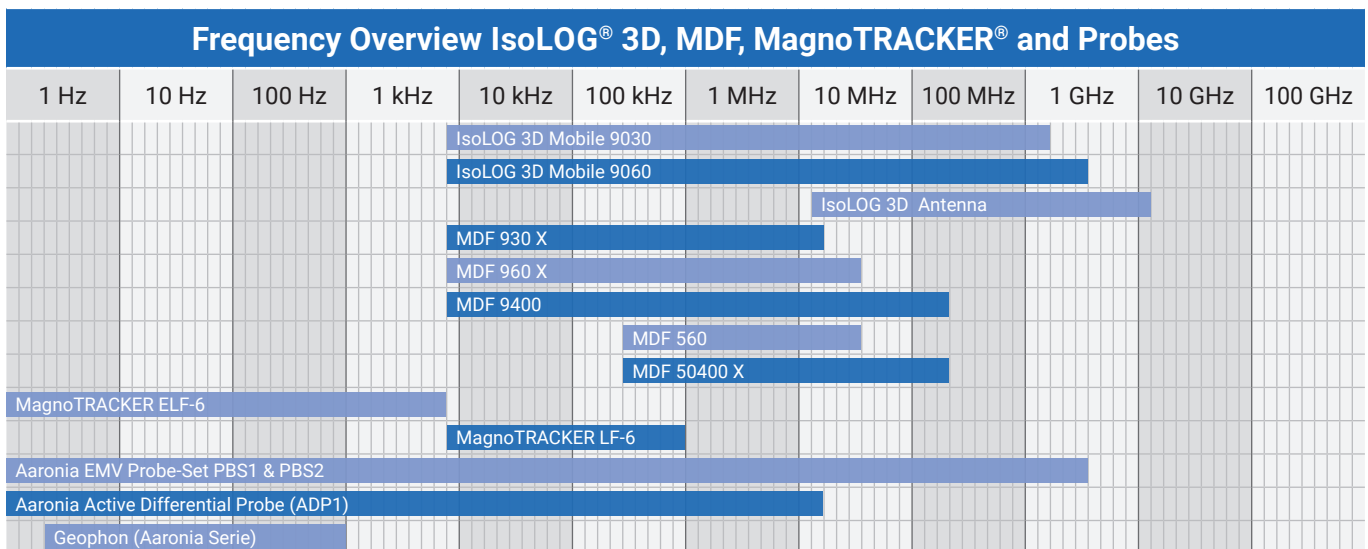
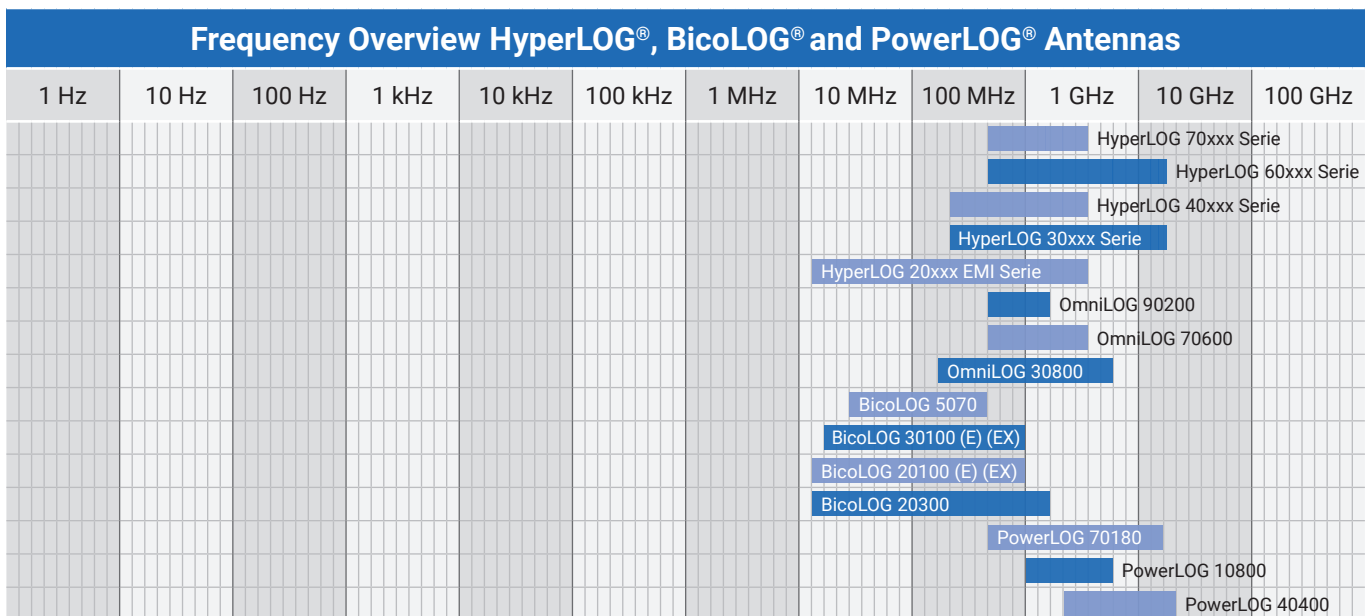
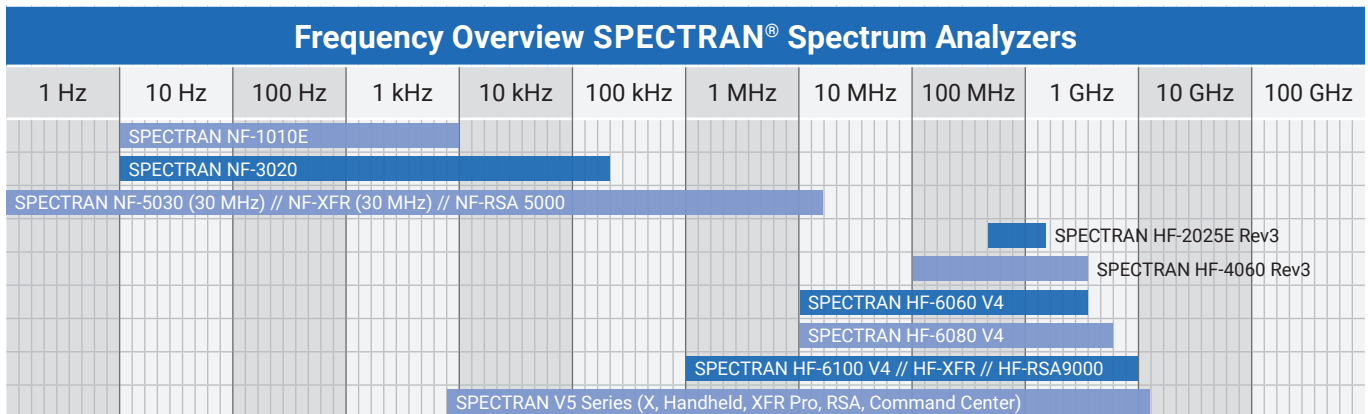


SMA to N Adapter

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



REFERENCES



Selected Aaronia Clients

Government, Military, Aeronautic, Astronautic

- **NATO**, Belgium
- **Department of Defense (DoD)**, USA
- **Department of Defence**, Australia
- **Airbus**, Germany
- **Boeing**, USA
- **German Armed Forces**, Germany
- **NASA**, USA
- **Lockheed Martin**, USA
- **Lufthansa**, Germany
- **German Aerospace Center (DLR)**, Germany
- **Eurocontrol**, Belgium
- **EADS**, Germany
- **Drug Enforcement Administration (DEA)**, USA
- **Federal Bureau of Investigation (FBI)**, USA
- **Federal Criminal Police Office (BKA)**, Germany
- **Federal Police**, Germany
- **Ministry of Defence**, Netherlands

Research/Development, Science and Universities

- **MIT - Physics Department**, USA
- **California State University**, USA
- **Indonesian Institute of Science (LIPI)**, Indonesia
- **Los Alamos National Laboratory (LANL)**, 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 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
- **Volkswagen**, Germany
- **BASF**, Germany
- **Siemens AG**, Germany
- **Rohde & Schwarz**, Germany
- **Infineon**, Austria
- **Philips**, Germany
- **ThyssenKrupp**, Germany
- **EnBW (Energie Baden-Württemberg)**, Germany
- **CNN**, USA
- **Duracell**, USA
- **German Telekom**, Germany
- **Bank of Canada**, Canada
- **NBC News**, USA
- **Sony**, Germany
- **Anritsu**, Germany
- **Hewlett-Packard**, Germany
- **Bosch**, Germany
- **Mercedes-Benz**, Austria
- **Osram**, Germany
- **DEKRA**, Germany
- **AMD**, Germany
- **Keysight**, China
- **Infineon Technologies**, Germany
- **Philips Semiconductors**, Germany
- **Hyundai Europe**, Germany
- **VIAVI**, Korea
- **Wilkinson Sword**, Germany
- **IBM Deutschland**, Germany
- **Nokia-Siemens Networks**, Germany

