

Product Datasheet - Technical Specifications



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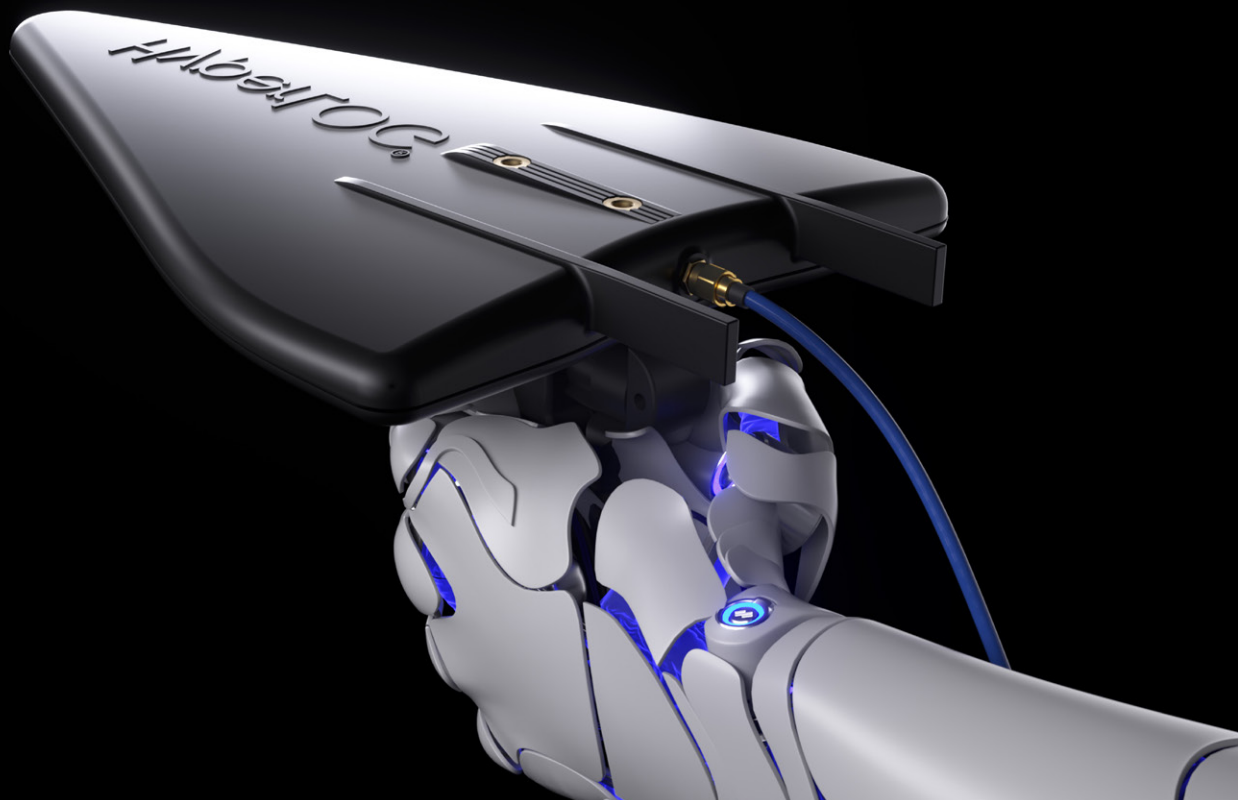
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LPDA HYBRID ANTENNAS

HYPERLOG[®]

PRO SERIES

High performance broadband measurement and DF antenna from 2 GHz to 40 GHz



Highlights:

- Extremely broadband
- High gain and high directivity
- Excellent forward/backward ratio
- Compact and robust design


AARONIA AG
WWW.AARONIA.DE



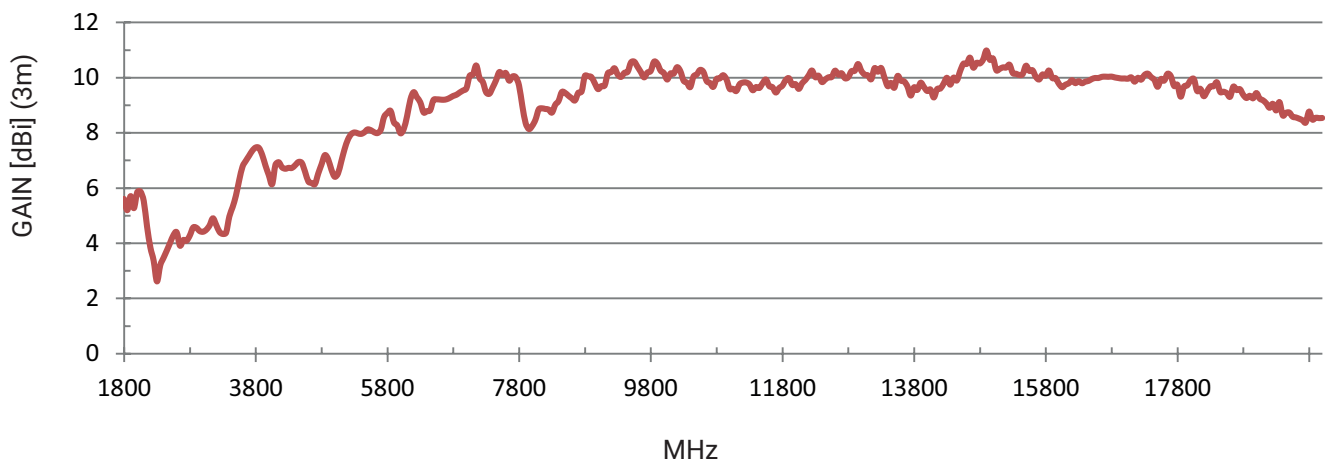
MADE IN GERMANY

Specifications

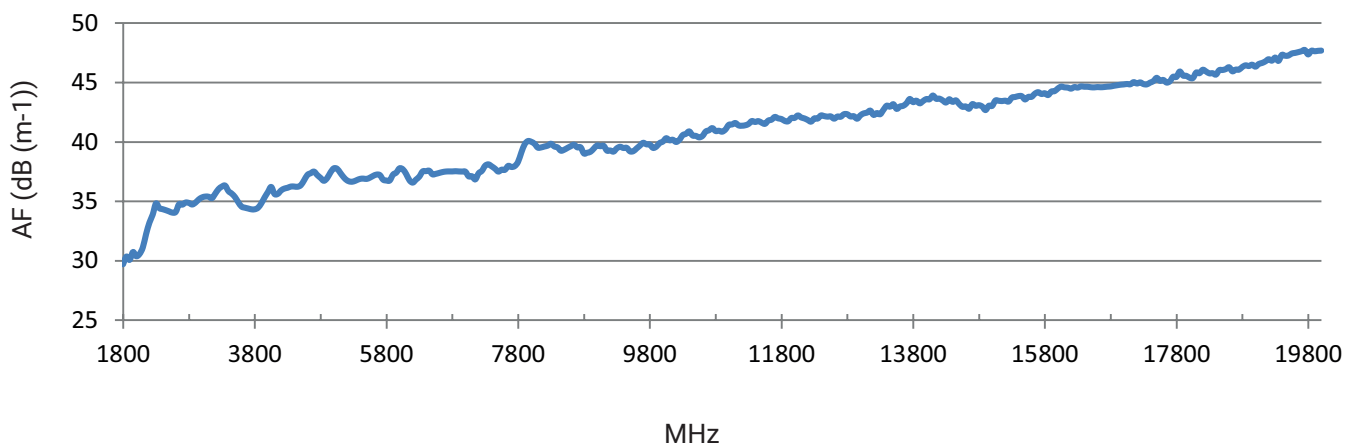
HyperLOG® PRO 18200

Dimensions [L x W x D]	340 x 200 x 25 mm	Nominal Impedance	50 Ohm
Weight	250 g	Calibration Points	365 (50 MHz steps)
Design	LPDA Hybrid	VSWR (typ.)	< 2:1
Gain (typ.)	11 dBi	Max. Transmission Power	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	Antenna Factor	29 – 47 dB/m
Frequency Range	2 GHz – 20 GHz	HPBW	min. 26°

Gain Diagram HyperLOG® PRO 18200



Antenna Factor Diagram HyperLOG® PRO 18200

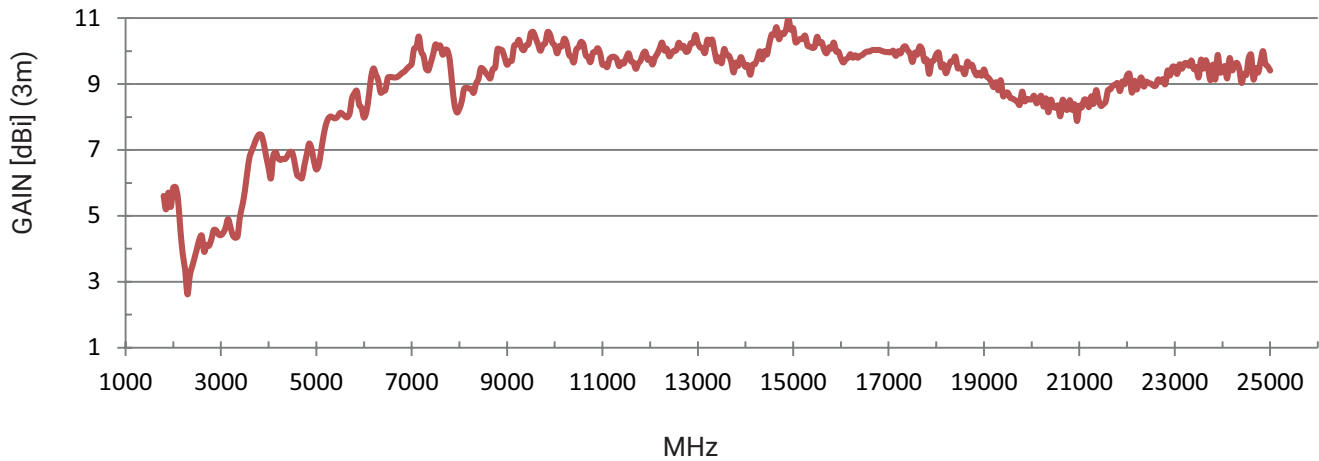


Specifications

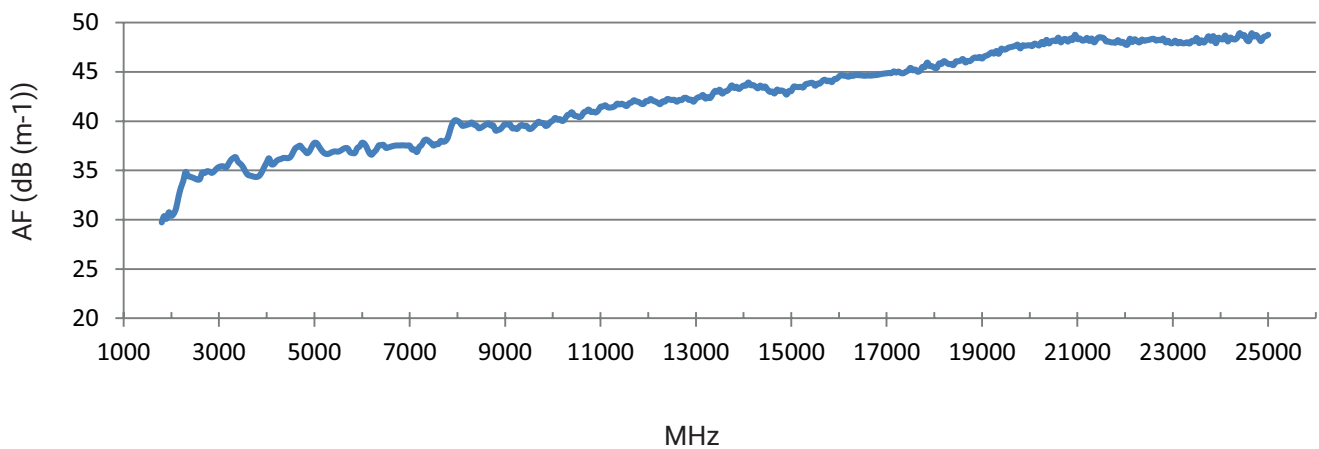
HyperLOG® PRO 18250

Dimensions [L x W x D]	340 x 200 x 25 mm	Nominal Impedance	50 Ohm
Weight	250 g	Calibration Points	465 (50 MHz steps)
Design	LPDA Hybrid	VSWR (typ.)	< 2:1
Gain (typ.)	11 dBi	Max. Transmission Power	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	Antenna Factor	29 – 48 dB/m
Frequency Range	2 GHz – 25 GHz	HPBW	min. 26°

Gain Diagram HyperLOG® PRO 18250



Antenna Factor Diagram HyperLOG® PRO 18250

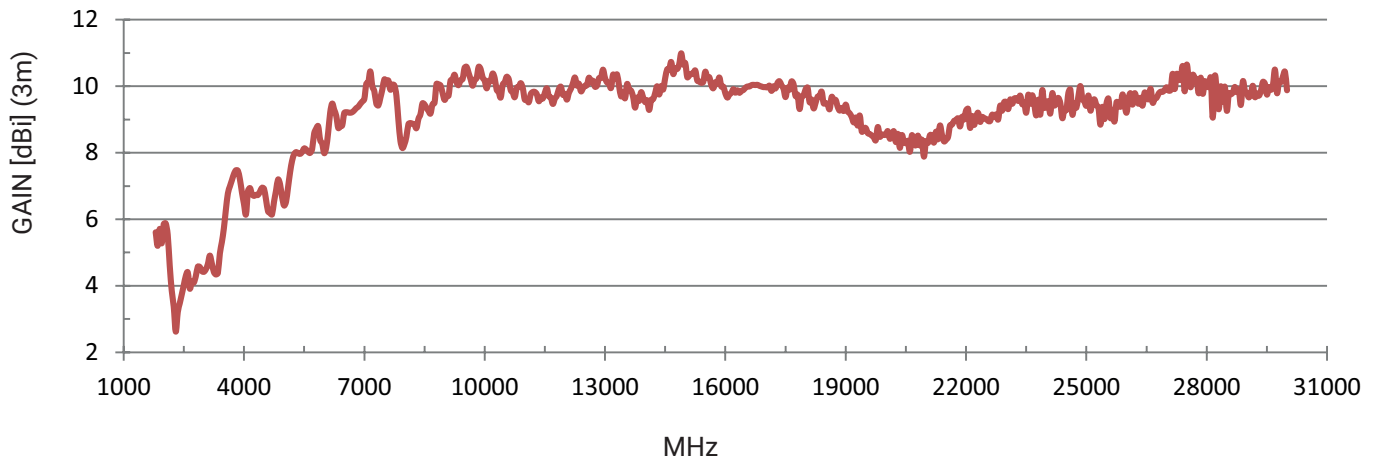


Specifications

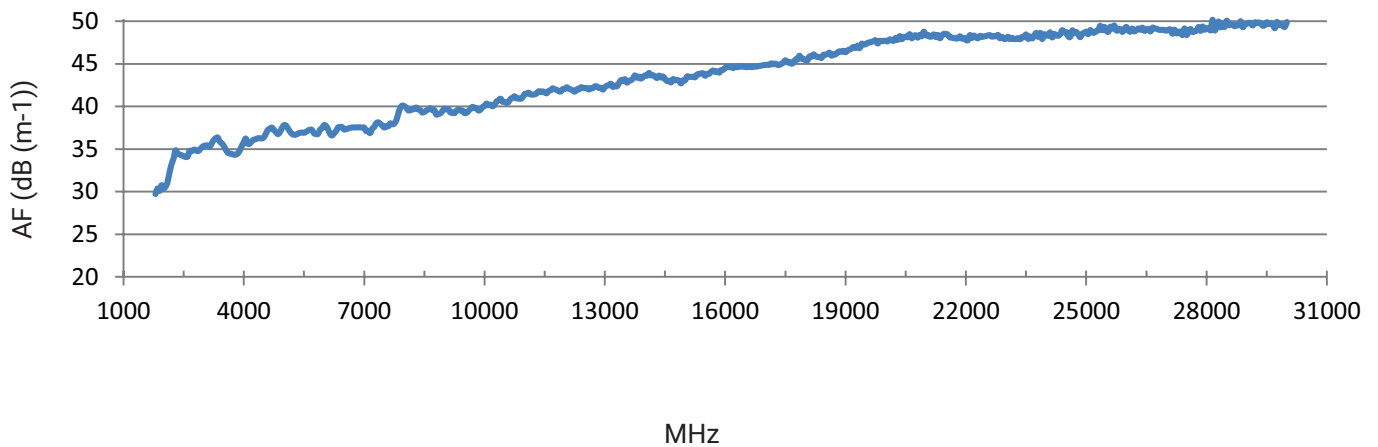
HyperLOG® PRO 18300

Dimensions [L x W x D]	340 x 200 x 25 mm	Nominal Impedance	50 Ohm
Weight	250 g	Calibration Points	565 (50 MHz steps)
Design	LPDA Hybrid	VSWR (typ.)	< 2:1
Gain (typ.)	11 dBi	Max. Transmission Power	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	Antenna Factor	29 – 50 dB/m
Frequency Range	2 GHz – 30 GHz	HPBW	min. 26°

Gain Diagram HyperLOG® PRO 18300



Antenna Factor Diagram HyperLOG® PRO 18300

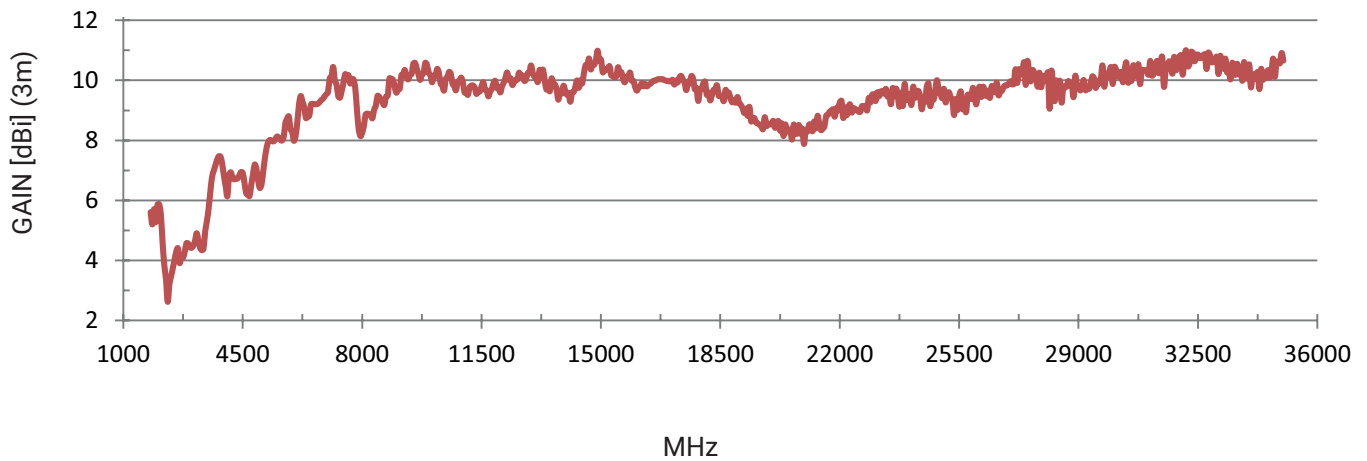


Specifications

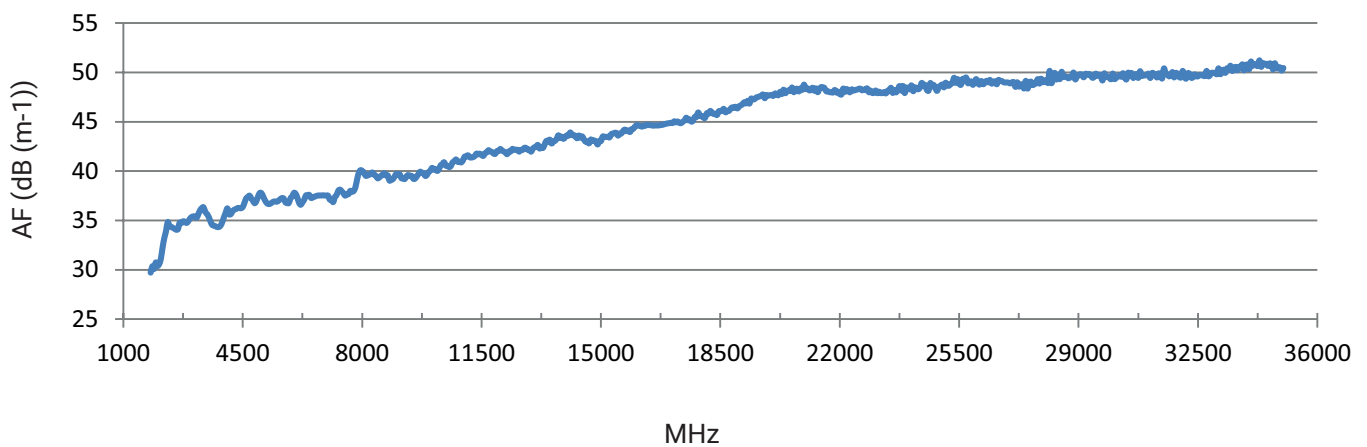
HyperLOG® PRO 18350

Dimensions [L x W x D]	340 x 200 x 25 mm	Nominal Impedance	50 Ohm
Weight	250 g	Calibration Points	665 (50 MHz steps)
Design	LPDA Hybrid	VSWR (typ.)	< 2:1
Gain (typ.)	11 dBi	Max. Transmission Power	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	Antenna Factor	29 – 54 dB/m
Frequency Range	2 GHz – 35 GHz	HPBW	min. 26°

Gain Diagram HyperLOG® PRO 18350



Antenna Factor Diagram HyperLOG® PRO 18350

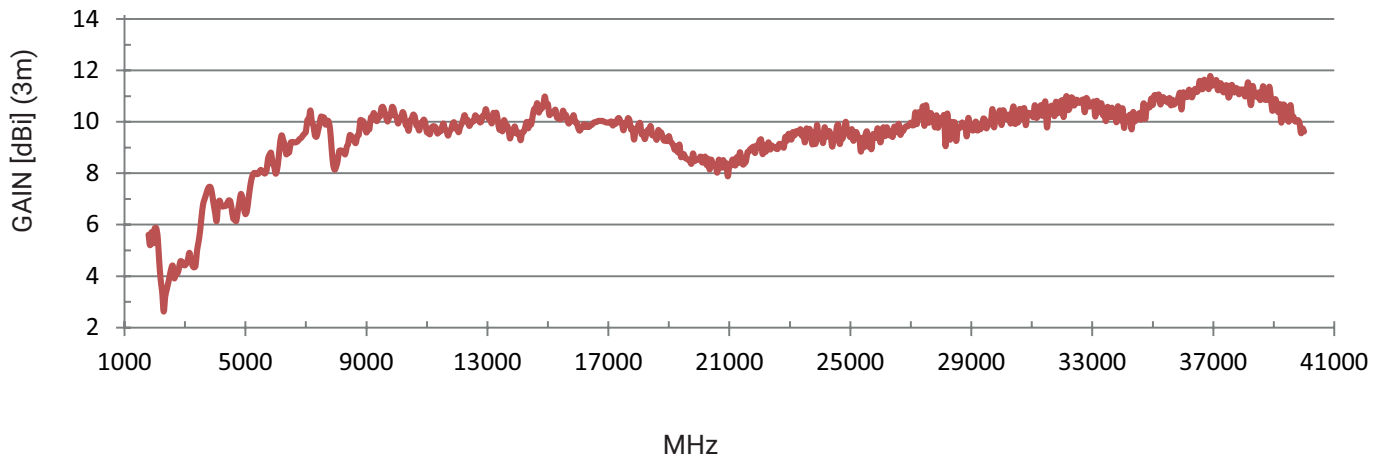


Specifications

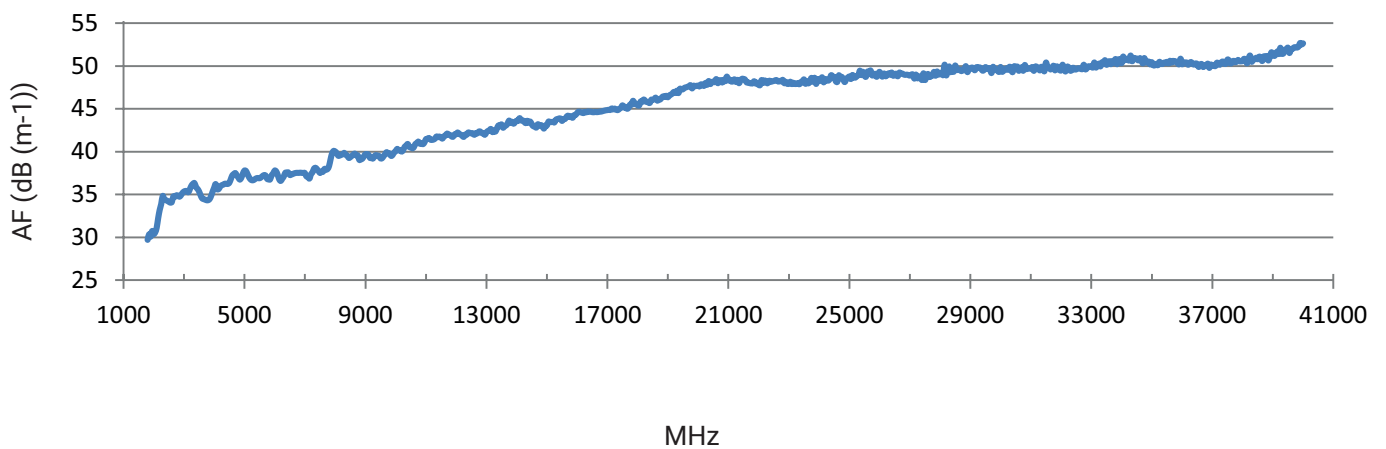
HyperLOG® PRO 18400

Dimensions [L x W x D]	340 x 200 x 25 mm	Nominal Impedance	50 Ohm
Weight	250 g	Calibration Points	765 (50 MHz steps)
Design	LPDA Hybrid	VSWR (typ.)	< 2:1
Gain (typ.)	12 dBi	Max. Transmission Power	100 W CW (15 GHz)
RF Connection	2.92 mm K (f)	Antenna Factor	29 – 53 dB/m
Frequency Range	2 GHz – 40 GHz	HPBW	min. 25°

Gain Diagram HyperLOG® PRO 18400

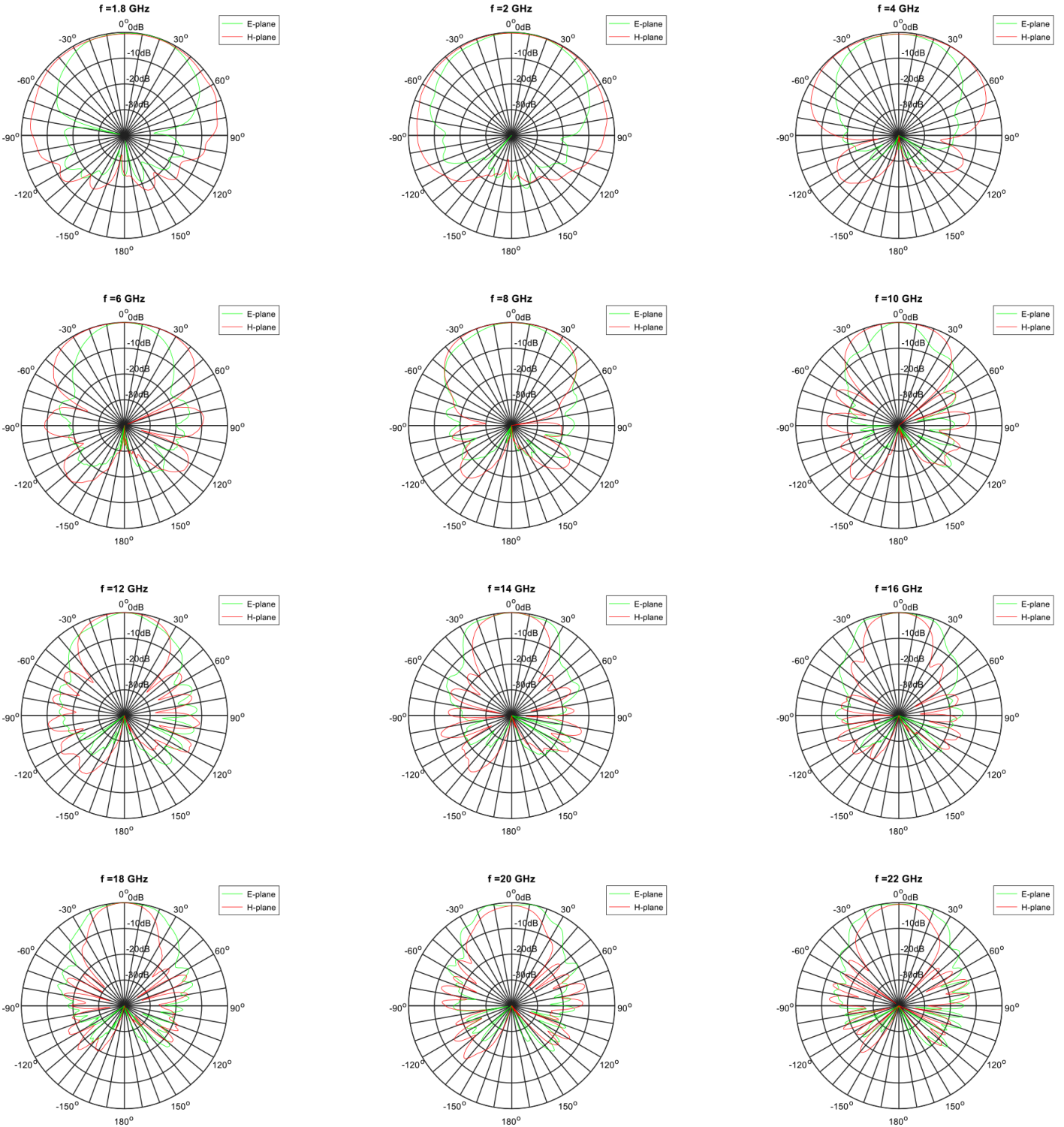


Antenna Factor Diagram HyperLOG® PRO 18400



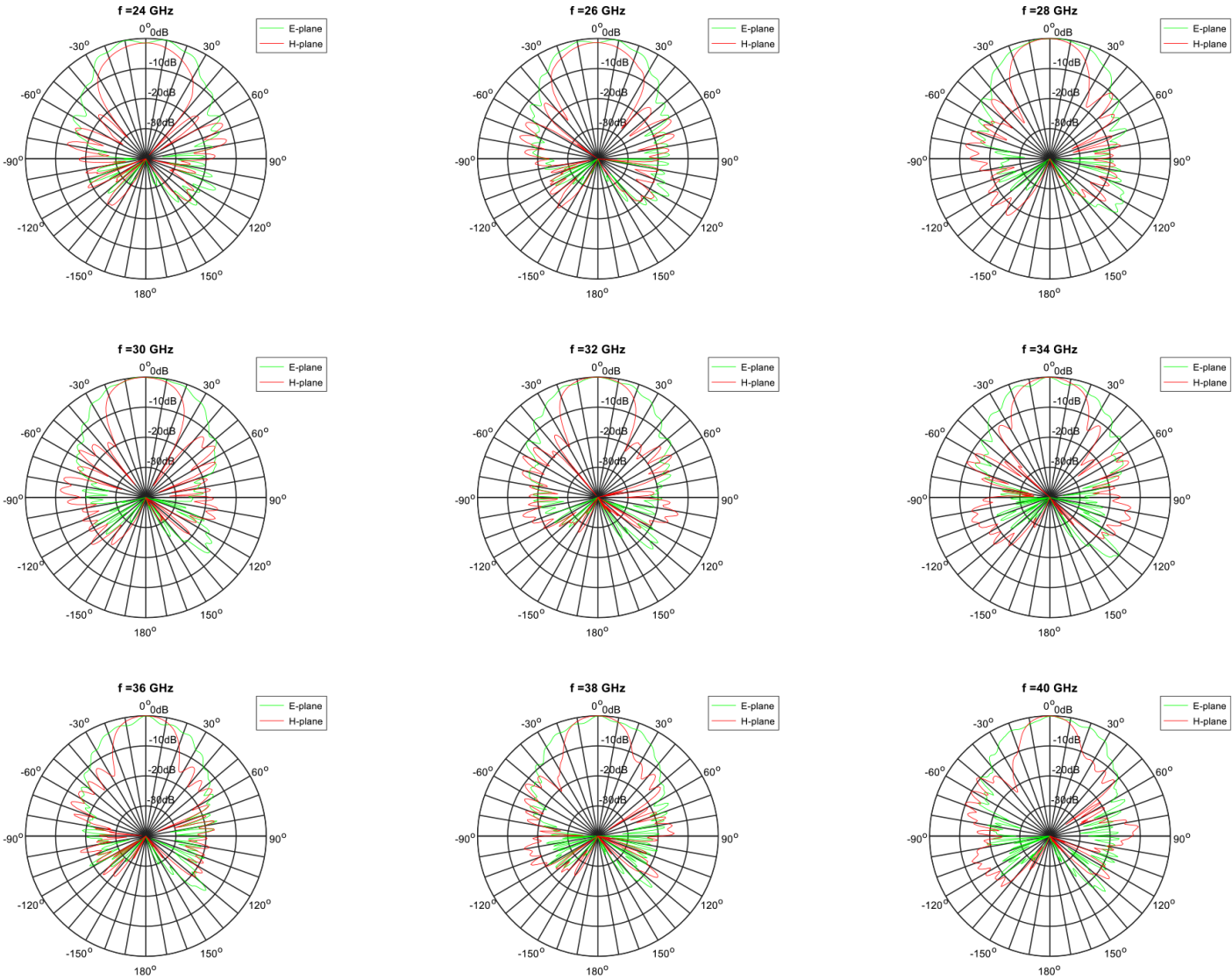
Pattern

Measured normalized radiation patterns (1.8 - 22 GHz)



Pattern

Measured normalized radiation patterns (24 - 40 GHz)



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

2 m K-Cable

Low loss phase stable high frequency cable 2m with screw aid.

2.92 K(m) - 2.92 K(m)

Frequency range: 10 MHz - 40 GHz

Diameter: 3.6 mm

Order/Art.-No.: 501/056



GPS Logger

The Aaronia GPS - Logger includes a total of 6 sensors, all of them on the cutting edge of technology, making it the world's first stand-alone data logger with such a variety of sensors.

Order/Art.-No.: 503/035

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

