

# Active Logper Antenna

## OLP-680M-350

Super Wideband LogPer antenna up to 35GHz which covers directional radio, miscellaneous satellite applications etc..

Every broadband antenna goes through rigorous testing in our laboratories before dispatch and is equipped with a high quality GOLD COATING, a high-tech antenna-case (radome) which offers protection against mechanical damage and environmental influence, a top-quality integrated tripod connection and a SMA connector (18GHz version) with twist protection.

All antennas are developed, individually produced and calibrated. This guarantees highest standard so that we can offer every customer a full 10 years warranty for all antennas.

All antennas include a complete high resolution (10MHz steps!) calibration data set with up to 687 calibration points (on CD). This offers the ability to make a very accurate measurement with any Spectrum Analyzer.



### Features

- Includes exhaustive calibration data (on CD)
- Special designed radome for perfect antenna protection
- Gold coating for stable performance
- Wide bandwidth
- Coverage of various mobile radio frequency ranges
- Gold coating for stable performance, Wide bandwidth
- Suitable for field-strength and EMC measurements due to high precision
- Compact and sturdy design
- Can be used in the lab and for open-field application

### Applications

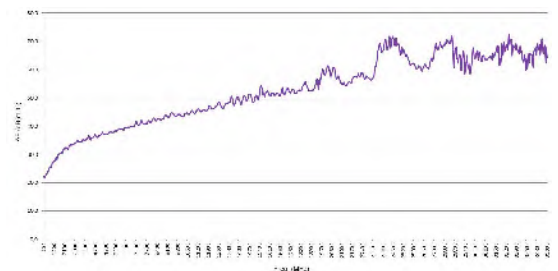
- LTE800, ISM868, GSM900, GSM1800, GSM1900
- UMTS (Universal Mobile Telecommunications System)
- DECT (Digital Enhanced Cordless Telecommunications)
- Bluetooth, WiFi, WLAN, LTE2.6, WiMAX, Directional Radio, PAR Radar, 5GHz WLAN

### Electrical Specifications

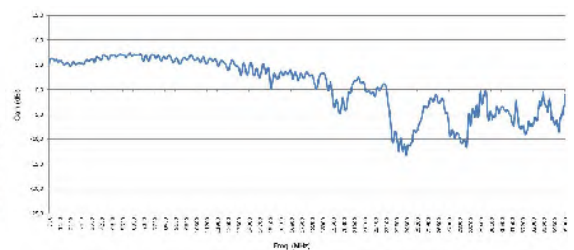
Frequency Range(GHz)	0.68-35
Max. input power	50W AM (800MHz)
Nominal impedance	50 Ohm
VSWR	<1:2.5 (typ.)
Gain	5dBi (typ.)
RF connection	SMA (f) or N (see optional adapter)
Tripod connection	1/4"
Calibration points	687 (50MHz-steps)
Dimensions (L/W/D)	340x200x25 mm
Weight	250gr



Antenna Factor

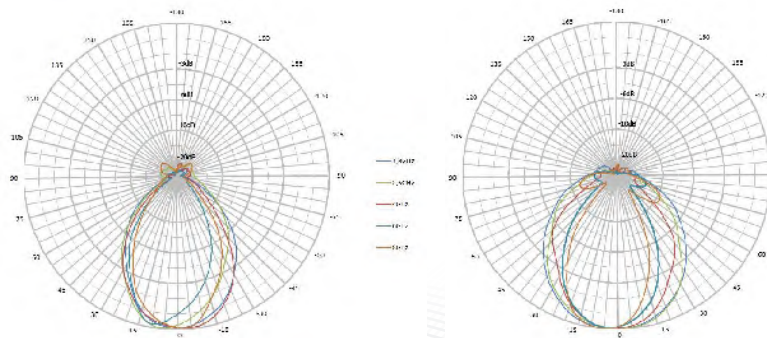


Gain diagram



Horizontal Pattern

Vertical Pattern



## Recommended accessories for Antennas

### Aluminum tripod

Height adjustable, high stability. Recommended for use with HyperLOG 70xx and 60xx antennas. Max. height: 105cm.



SMA Cable (1-10m)

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

High quality special SMA cable for connecting any Antenna or EC-Antenna with various test equipment like our 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)

### Heavy multifunctional Pistol Grip (strongly recommended!)

Highly recommend for the usage of HyperLOG antennas. Quick and easy change of antenna polarization, perfect antenna handling (even with the more heavy OLP-680M-350).



SMA to N Adapter

### SMA to N Adapter

This special high quality adapter allows operation of all EC-Antenna with any standard spectrum-analyzer with N connector. Also this adapter is needed to connect EC antennas to a SPECTRAN Spectrum Analyzer.

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) / Nplug (male).

## Included in delivery

- OLP-680M,-350 directional measurement antenna
- Typical calibration data with 687 calibration points (10MHz steps!) on CD
- Large aluminum carrying case with foam protection
- Pistol grip with mini tripod function
- SMA tool set with over-torque protection

## Options

Option 520 (Transparent Antenna Version)

Special Version of this EC antenna with transparent radome. Not only for students or techies but for all who want to have a look at the inner workings of the antenna.