Active Receiving Antenna
R&S® HE500

20 MHz to 3 GHz
For vertical polarization

Features
- Extremely broadband
- Omnidirectional radiation pattern
- Low weight
- Compact size
- Weatherproof housing

Brief description
The broadband Active Receiving Antenna R&S® HE500 has been designed as a monitoring antenna for vertical polarization and omnidirectional reception in the frequency range 20 MHz to 3 GHz.

The antenna is characterized by compact design and low weight. It is therefore ideal for use in mobile systems and environments where space is at a premium.

A sturdy, GRP radome protects the antenna and its electronics against effects of weather and high wind speeds.
Specifications

- **Frequency range**: 20 MHz to 3 GHz
- **Polarization**: linear/vertical
- **Input impedance**: 50 Ω
- **VSWR**: typ. <3
- **Horizontal radiation pattern**: omnidirectional
- **Antenna factor**: see diagrams below
- **Field-strength sensitivity**: 20 MHz to 1.3 GHz: typ. –23 dB(µV/m), 1.3 GHz to 3 GHz: typ. –20 dB(µV/m)
- **Destructive field strength**: Up to 10 MHz: typ. >50 V/m, 10 MHz to 20 MHz: typ. >20 V/m, 20 MHz to 3 GHz: typ. >10 V/m

Ordering information

- **Active Receiving Antenna**: R&S*HE500 4059.2005.02
- **Recommended extras**: Bias Unit R&S*IN500 4062.0880.02

Typical antenna factor

Typical VSWR characteristic