

# VHF/UHF Antennas

## Active Receiving Dipole R&S® HE 202



**200 MHz to 1000 MHz**

**Optimized for very small dimensions**

### Features

- ◆ High sensitivity despite small dimensions
- ◆ Wide frequency range
- ◆ High immunity to nonlinear distortion
- ◆ High immunity to lightning strokes in the vicinity
- ◆ Low weight
- ◆ Extremely small dimensions
- ◆ Shock- and vibration-proof

### Brief description

The Active Receiving Dipole R&S® HE202 features a very wide frequency range despite its small dimensions. Its high input sensitivity is the result of optimized matching of the passive antenna structure to the active circuitry.

These characteristics allow several passive antennas to be replaced by an Active Receiving Dipole R&S® HE202.

Similar to a passive antenna with high-grade preamplifiers, the active antenna is highly insensitive to nonlinear distortion.



## Specifications

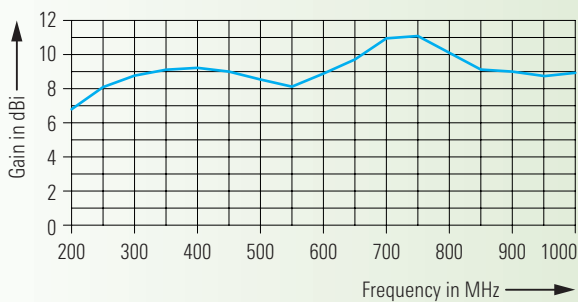
Frequency range	200 MHz to 1 GHz	Field strength sensitivity ( $\Delta f = 1$ kHz)	
Polarization	linear	200 MHz	-17 dB( $\mu$ V/m)
Input impedance	50 $\Omega$	2 GHz	-2 dB( $\mu$ V/m)
VSWR	typ. <2.5	IP2	>55 dBm
Electronic gain	5 dB to 9 dB	IP3	>30 dBm
Practical gain	7 dBi to 11 dBi	Power supply	18 V to 30 V DC (max. 200 mA)
Directivity	2 dB (average)	Connector	N female
Antenna factor	10 dB to 22 dB	MTBF	>50 000 h
Noise figure		Operating	
200 MHz	6 dB	temperature range	-40 °C to +75 °C
2 GHz	7 dB	Max. wind speed	180 km/h (without ice deposit)
		Dimensions (L x H)	approx. 510 mm x 240 mm
		Weight	approx. 2.1 kg

## Ordering information

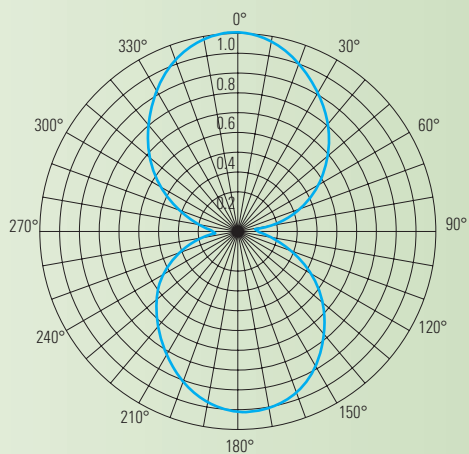
**Active Receiving Dipole** R&S®HE202 0630.0310.02

### Recommended extras

Power Supply Unit	R&S®IN 115	4004.1707.02
Mast Adapter (for special polarization alignment only)	R&S®HE 202Z1	0649.7510.02
RF Cable	R&S®HE 202Z2	0649.7785.02



**Typical practical gain**



**Typical radiation pattern in the E plane at 500 MHz**