

# Active Vertical Dipole HE309



## Brief description

An extremely large bandwidth, wide dynamic range and high sensitivity make the HE309 ideal for all receiving tasks in radiocommunication, detection and monitoring in which small size, a minimum amount of distribution and switching units and a high S/N ratio are at a premium. The broadband characteristic of the Vertical Dipole HE309 is obtained by the combination of the active antenna principle with the special design of the radiator.

- Extremely wide frequency range
- Small dimensions - only 1.2 m in length
- High sensitivity
- Just one active antenna replaces several passive antennas
- High immunity to non-linear distortion
- High immunity to nearby lightning strikes
- Low weight

## Specifications

Frequency range	20 to 1000 MHz (up to 1300 MHz with reduced sensitivity)
Polarization	vertical
Horizontal pattern	circular
Noise figure (frequency-dependent, acc. to external noise)	22 dB (typ.) at 20 MHz 10 dB (typ.) at 100 MHz 7 dB (typ.) at 1000 MHz
Intercept point	
2nd order	55 dBm (typ.)
3rd order	32 dBm (typ.)
Power supply	via RF cable 21 to 28 V DC, 150 mA N female
RF connector	
Dimensions	
Length	1210 mm
Diameter	100 mm
Weight	approx. 3 kg
Max. wind speed	180 km/h
Operating temperature	-40 to +70°C
Storage temperature	-55 to +85°C
Vibration resistance	7.5 mm sine amplitude between 4 and 10 Hz 2 g, 10 to 500 Hz
Shock resistance	100 g / 6 ms

## Recommended extras

Power Supply Unit IN115	4004.1707.02
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