

R&S®HE309

Active Vertical Dipole

20 MHz to 1.3 GHz

High sensitivity, large bandwidth and wide dynamic range



Its extremely large bandwidth, wide dynamic range and excellent sensitivity make the R&S®HE309 ideal for all receiving tasks in radiocommunications, detection and monitoring, where the focus is on small size, a minimum number of distribution and switching units and a high S/N ratio.

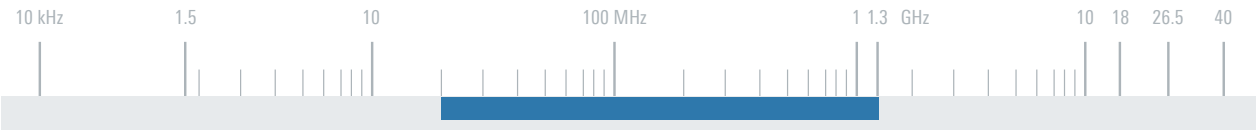
The broadband characteristics of the R&S®HE309 active vertical dipole are achieved through a combination of the active antenna principle with a special design of the passive radiators.

When the antenna is used together with the R&S®HE314A1 and the R&S®HF214 antennas, horizontally polarized waves can also be received.

Key facts

- Extremely wide frequency range
- High sensitivity
- High immunity to nonlinear distortion
- High immunity to lightning strikes in the vicinity
- Compact 1.2 m antenna
- Low weight





Specifications	
Frequency range	20 MHz to 1.3 GHz
Polarization	linear/vertical
Input impedance	50 Ω
Horizontal radiation pattern	omnidirectional
Noise figure (frequency-dependent, as a function of external noise)	
20 MHz	20 dB (typ.)
100 MHz	5 dB (typ.)
1 GHz	7 dB (typ.)
IP2	55 dBm (typ.)
IP3	32 dBm (typ.)

Power supply	21 V to 28 V DC (max. 150 mA)
Connector	N female
MTBF	> 100 000 h
Operating temperature range	−40°C to +70°C
Max. wind speed	180 km/h (without ice deposit)
Dimensions (Ø × L)	approx. 100 mm × 1210 mm (3.9 in × 47.6 in)
Weight	approx. 3 kg (6.6 lb)

Ordering information	Type	Order No.
Active Vertical Dipole	R&S®HE309	4027.5009.02
Recommended extras		
Bias Unit	R&S®IN600	4094.3004.xx
Active Omnidirectional Antenna	R&S®HE314A1	4027.6505.02
Passive Omnidirectional Antenna	R&S®HF214	4042.7009.02
Omnidirectional Antenna	R&S®HF902	4042.8005.02

