R&S®HE309E ACTIVE VERTICAL DIPOLE

20 MHz to 1.3 GHz

High sensitivity, large bandwidth and wide dynamic range

The R&S®HE309E active vertical dipole is designed to receive vertically polarized signals in the frequency range from 20 MHz to 1.3 GHz.

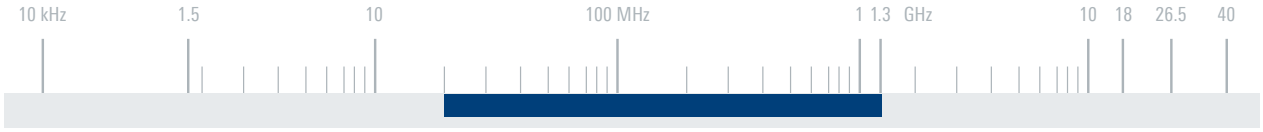
The lightweight and compact antenna is accommodated in a weatherproof and rugged fiberglass-reinforced plastic (GRP) radome that fully protects the receiving dipole against the effects of weathering.

Characterized by its small dimensions, it is ideal for use in mobile systems and provides optimum reception results even if space is limited.

A large bandwidth, wide dynamic range and excellent field strength sensitivity make the R&S®HE309E suitable for all receiving tasks that might occur in the field of communications, radiomonitoring and radiolocation.

Key facts

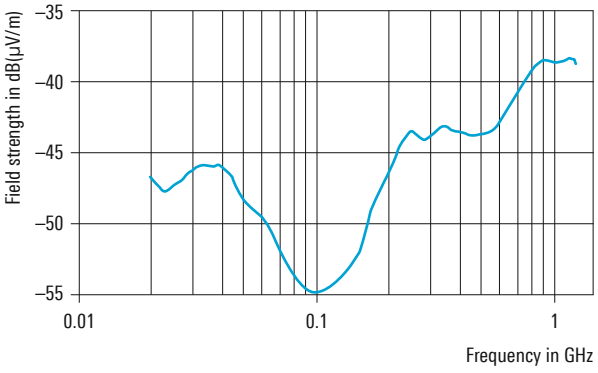
- Extremely wide frequency range
- High sensitivity (low inherent noise)
- High linearity and spurious-free dynamic range
- Compact dimensions
- Rugged and weatherproof design
- No deterioration of the radiation pattern due to divided dipole design



Specifications		
Frequency range		20 MHz to 1.3 GHz
Polarization		linear vertical
Input impedance		50 Ω
VSWR		< 3.0; typ. 2.5
Circularity of horizontal pattern		typ. 3 dB
IP2		typ. 60 dBm
IP3		typ. 30 dBm
Power supply		24 V DC (–3 V/+1 V) (max. 350 mA)
RF connector		N female
MTBF		> 100 000 h
Operating temperature range		–40 °C to +70 °C
Storage temperature range		–40 °C to +85 °C
Protection class		IPx5, in line with EN 60259
Max. wind speed	without ice deposit	200 km/h
	with 30 mm ice deposit	180 km/h
Dimensions	Ø × L	approx. 1.21 m × 0.16 m (48 in × 5 in)
Weight		approx. 3 kg (7 lb)

Ordering information	Type	Order No.
Active vertical dipole	**R&S®HE309E**	
Color: squirrel gray (RAL 7000)		4098.0000.02
Color: bronze green (RAL 6031)		4098.0000.03
Color: light ivory (RAL 1015)		4098.0000.04
Recommended extra		
Bias unit	R&S®IN600	4094.3004.xx

Typical field strength sensitivity at antenna output (bandwidth = 1 Hz, SNR = 0 dB)



Typical field patterns in the E plane