

# R&S®HK309 PASSIVE RECEIVING DIPOLE

20 MHz to 1.3 GHz

Passive broadband receiving dipole for vertically polarized signals and high field strengths



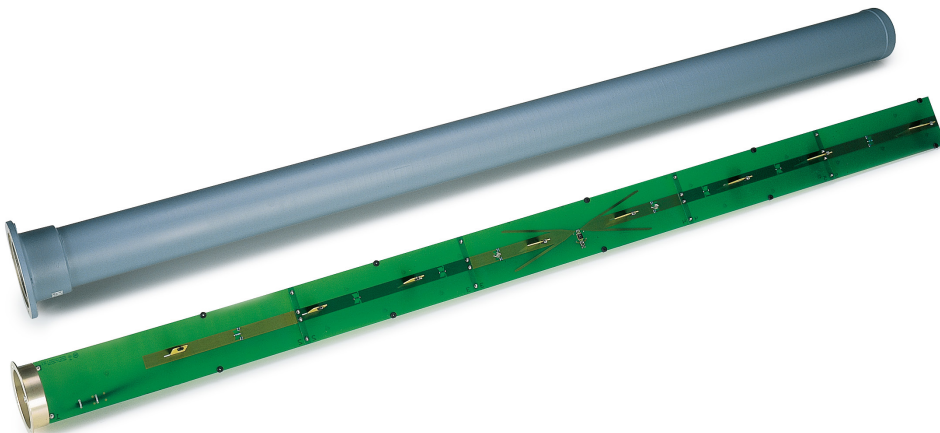
Its extremely wide bandwidth and high sensitivity make the R&S®HK309 particularly suitable for reception tasks in communications, reconnaissance and measurement.

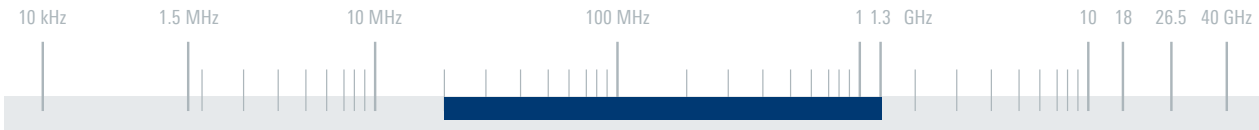
Compact design, a minimum number of distribution and switching units and a high S/N ratio are essential features for these applications.

The broadband characteristic of the R&S®HK309 passive receiving dipole is ensured by eight impedance elements which suppress nulls in the main direction of reception.

## Key facts

- ▶ Extremely wide frequency range
- ▶ High sensitivity
- ▶ High large-signal immunity
- ▶ High protection against lightning strikes in the vicinity
- ▶ Small size (dipole length only 1.7 m)
- ▶ Low weight





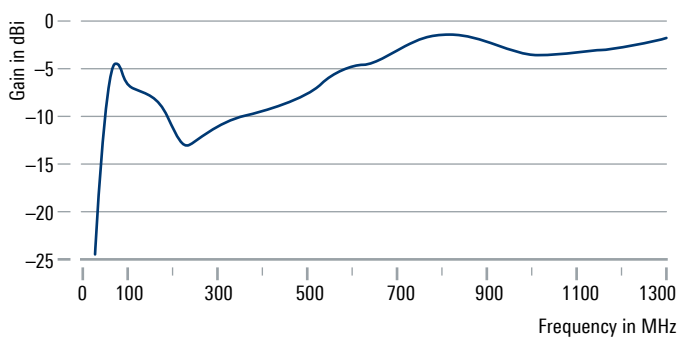
### Specifications

Frequency range	20 MHz to 1.3 GHz	
Polarization	linear/vertical	
Horizontal radiation pattern	omnidirectional	
Input impedance	50 Ω	
VSWR	< 3 (typ.)	
Gain	-24 dBi to -2 dBi (typ.)	
Connector	N female	
Operating temperature range	-40°C to +70°C	
Maximum wind speed	without ice deposit	180 km/h
MTBF	> 100000 h	
Dimensions	Ø × L	approx. 100 mm × 1710 mm (4 in × 67 in)
Weight	approx. 4 kg (9 lb)	

### Ordering information

Ordering information	Type	Order No.
Passive receiving dipole	R&S®HK309	4054.2007.02

### Typical gain



### Typical VSWR

