

R&S®HF214 OMNIDIRECTIONAL ANTENNA

500 MHz to 1.3 GHz

Reception of horizontally polarized waves



The R&S®HF214 omnidirectional antenna has been designed for the reception of horizontally polarized waves. It is ideal for broadband detection and monitoring of RF signals in the frequency range from 500 MHz to 1.3 GHz.

With a diameter of only 0.31 m and a height of 0.49 m, the compact broadband antenna is particularly suitable for applications where the available space is limited.

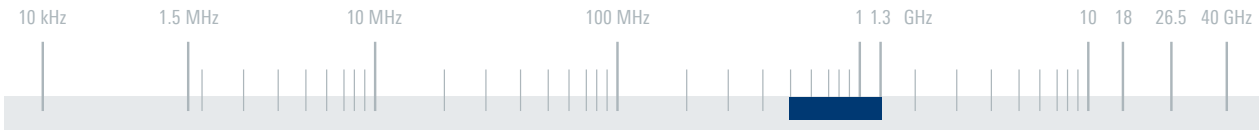
A compact omnidirectional receiving system for horizontally and vertically polarized waves in the frequency range from 20 MHz to 3 GHz is obtained by combining the R&S®HF214 with the R&S®HE309E, R&S®HE314A1 and R&S®HF902 antennas.

Key facts

- ▶ Broadband frequency range
- ▶ Easy integration into broadband antenna systems due to cable feedthrough
- ▶ Small size
- ▶ Rugged design
- ▶ Suitable for mobile use
- ▶ Ideal for detection and monitoring of horizontally polarized signals



Antenna without radome



Specifications

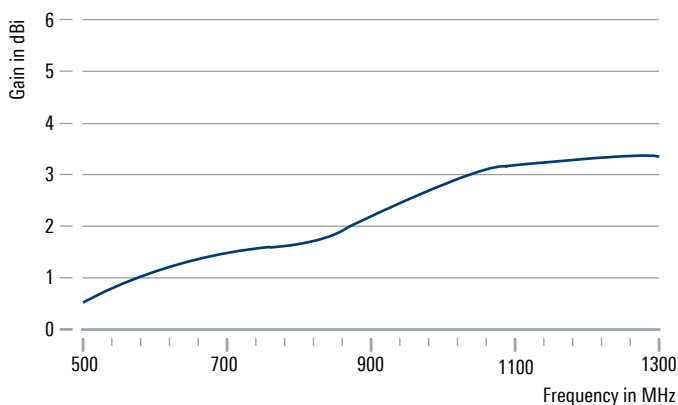
Frequency range	500 MHz to 1.3 GHz	
Polarization	linear/horizontal	
Input impedance	50 Ω	
VSWR	< 3 (typ.)	
Gain	see diagram	
Uncircularity of horizontal radiation pattern	±3 dB	
Connector	N female	
MTBF	> 50 000 h	
Operating temperature range	-40°C to +65°C	
Protection class	IP55	
Maximum wind speed	without ice deposit	188 km/h
	with 30 mm radial ice deposit	130 km/h
Dimensions	Ø × H	approx. 310 mm × 490 mm (12 in × 19 in)
Weight	approx. 10 kg (22 lb)	

Ordering information	Type	Order No.
Omnidirectional antenna	R&S®HF214	4042.7009.02

Recommended extras

Active vertical dipole	R&S®HE309E	4098.0000.02
Active omnidirectional antenna	R&S®HE314A1	4027.6505.02
Omnidirectional antenna	R&S®HF902	4042.8005.02

Typical gain



Typical VSWR

