

# R&S®HF902 OMNIDIRECTIONAL ANTENNA

1 GHz to 3 GHz

Reception of vertically and horizontally polarized waves



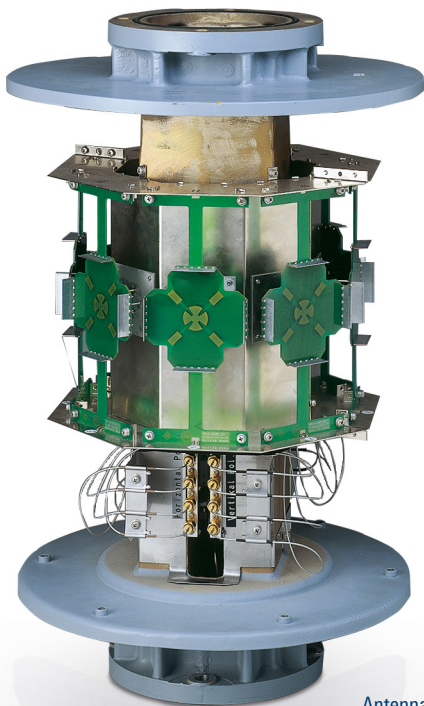
The R&S®HF902 omnidirectional antenna has been designed for the reception of vertically and horizontally polarized waves. It is ideal for broadband detection and monitoring of RF signals in the frequency range from 1 GHz to 3 GHz.

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.

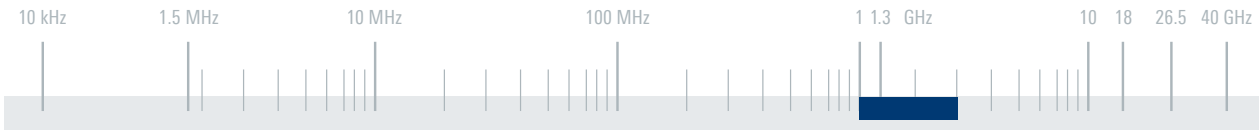
A compact omnidirectional receiving system for horizontally and vertically polarized waves in the frequency range from 20 MHz to 3 GHz is obtained when combining the R&S®HF902 with the R&S®HE309E, R&S®HE314A1 and R&S®HF214 antennas.

## Key facts

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



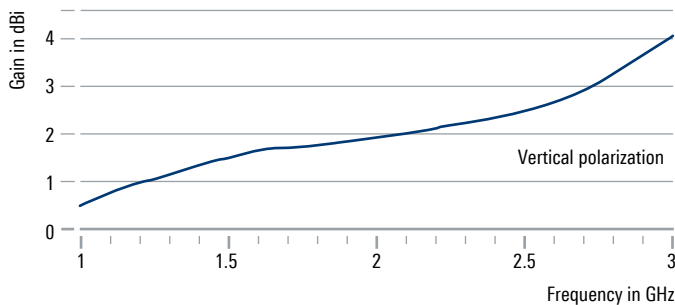
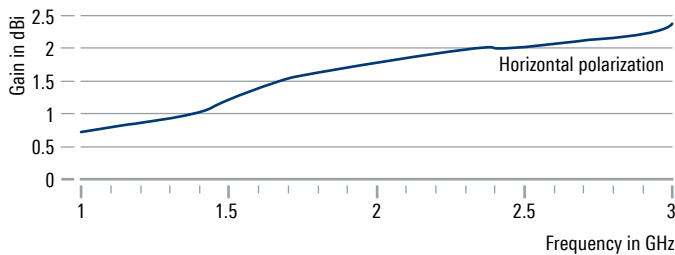
Antenna without radome



Specifications		
Frequency range		1 GHz to 3 GHz
Polarization		linear/horizontal and vertical
Input impedance		50 Ω
VSWR		see diagram
Gain		see diagram
Connector		2 × 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®HF902	4042.8005.02
Recommended extras		
Active vertical dipole	R&S®HE309E	4098.0000.02
Active omnidirectional antenna	R&S®HE314A1	4027.6505.02
Omnidirectional antenna	R&S®HF214	4042.7009.02

**Typical gain**



**Typical VSWR**

