R&S®HE500 ACTIVE RECEIVING ANTENNA

20 MHz to 3 GHz

Good reception results in a compact size



The R&S[®]HE500 active receiving antenna has been designed as a monitoring antenna for vertical polarization and omnidirectional reception in the frequency range from 20 MHz to 3 GHz.

The antenna features a compact design and low weight, making it ideal for use in mobile systems and environments where space is at a premium.

A sturdy, composite radome protects the antenna and its electronics against the effects of weather and high wind speeds.

Key facts

- Extremely broadband
- Omnidirectional radiation pattern
- ► Low weight
- Compact size
- Weatherproof housing



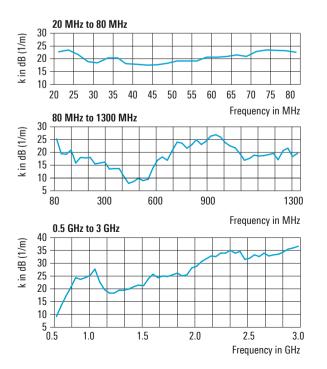
VHF/UHF Antennas R&S®HE500 Active Receiving Antenna

10 kHz	1.5	10	100 MHz	1 1.3 GHz	10 18 26.5 40

Specifications		
Frequency range		20 MHz to 3 GHz
Polarization		linear/vertical
Input impedance		50 Ω
VSWR		typ. < 3
Horizontal radiation pattern		omnidirectional
Antenna factor		see diagram
Field strength sensitivity (S/N = 0 dB, $\Delta f = 1$ Hz)	20 MHz to 1.3 GHz	typ. –23 dB(µV/m)
	1.3 GHz to 3 GHz	typ. –20 dB(µV/m)
Destructive field strength		typ. > 50 V/m
IP2	20 MHz to 900 MHz	typ. > 50 dBm
	> 900 MHz to 3 GHz	typ. > 30 dBm
IP3		typ. > 25 dBm
Power supply		18 V to 32 V DC (max. 180 mA)
Connector		N female
MTBF		> 50 000 h
Operating temperature range		−40 °C to +65 °C
Max. wind speed	model .02	250 km/h
	model .14	600 km/h (only on narrow side)
Dimensions	$W \times H \times L$	approx. 65 mm × 365 mm × 170 mm (3 in × 14 in × 7 in)
Weight	approx. 1.2 kg (3 lb)	

Ordering information	Туре	Order No.			
Active receiving antenna	R&S®HE500	4059.2005.02			
Active receiving antenna, for use on aircraft	R&S®HE500	4059.2005.14			
Recommended extra					
Bias unit	R&S®IN600	4094.3004.xx			





Typical VSWR characteristic

