

R&S®HE500

Active Receiving Antenna

20 MHz to 3 GHz

For vertical polarization



Features

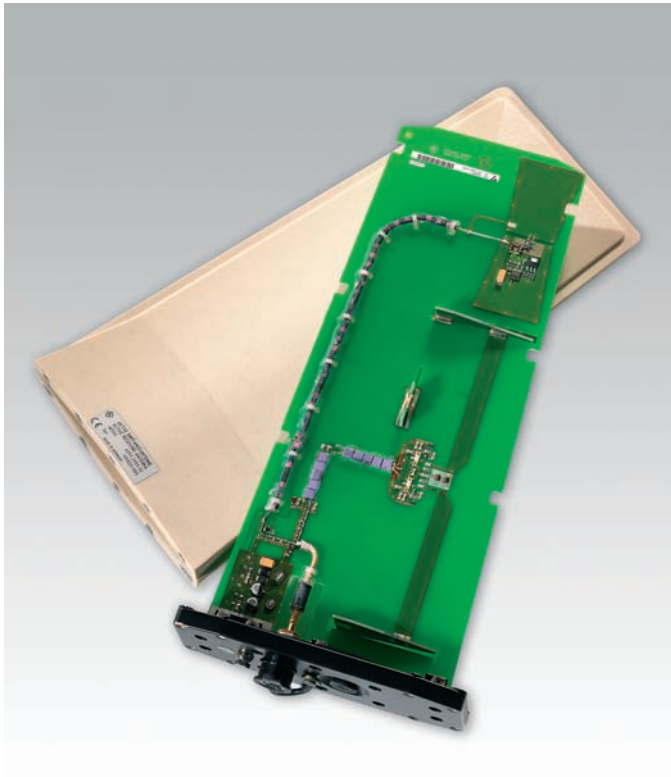
- ▮ Extremely broadband
- ▮ Omnidirectional radiation pattern
- ▮ Low weight
- ▮ Compact size
- ▮ Weatherproof housing

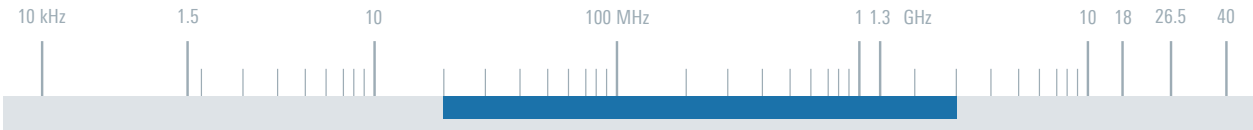
Brief description

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

The antenna is characterized by compact design and low weight. It is therefore 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 effects of weather and high wind speeds.





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 diagrams below
Field-strength sensitivity	
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	
Up to 10 MHz	typ. >50 V/m
10 MHz to 20 MHz	typ. >20 V/m
20 MHz to 3 GHz	typ. >10 V/m

IP2	>30 dBm (typ. >50 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	
Narrow side	600 km/h (without ice deposit)
Broad side	250 km/h (without ice deposit)
Dimensions (L × W × H)	approx. 170 mm × 65 mm × 365 mm (approx. 6.7 in × 2.6 in × 14.4 in)
Weight	approx. 1.2 kg (approx. 2.7 lb)

Ordering information	Type	Order No.
Active Receiving Antenna	R&S®HE500	4059.2005.02
Recommended extras		
Bias Unit	R&S®IN500	4062.0880.02

