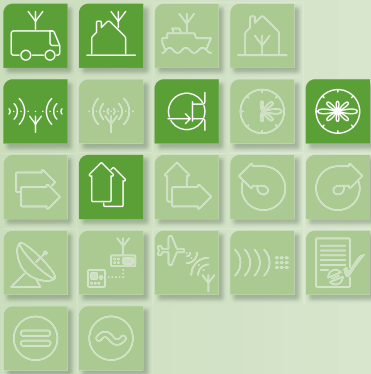


VHF/UHF Antennas

Active Receiving Antenna R&S® HE500

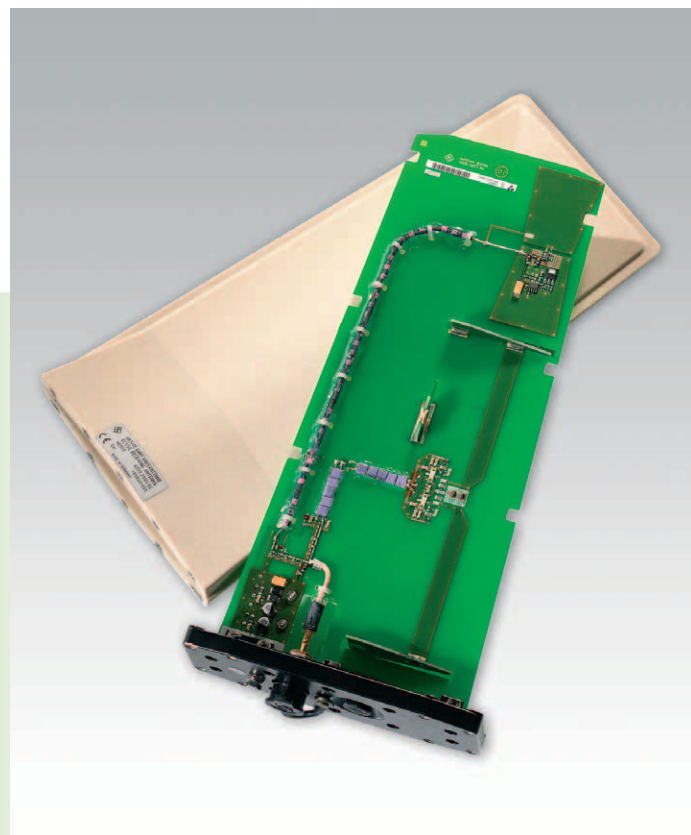


20 MHz to 3 GHz

For vertical polarization

Features

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

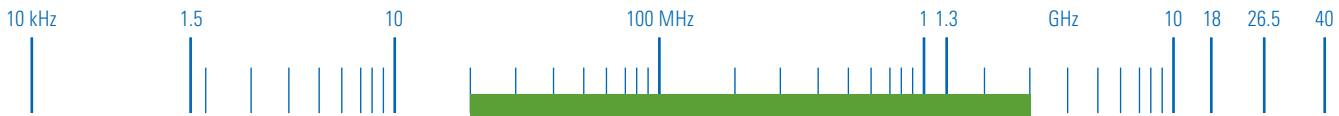


Brief description

The broadband Active Receiving Antenna R&S® HE500 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, GRP radome protects the antenna and its electronics against effects of weather and high wind speeds.



Specifications

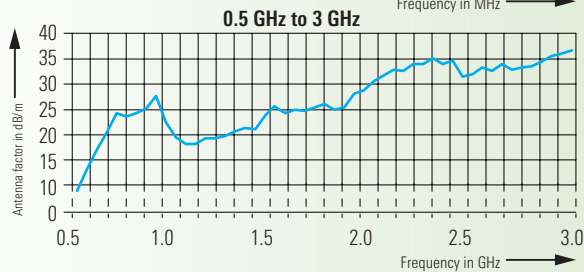
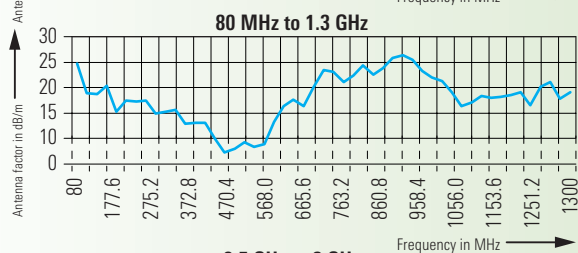
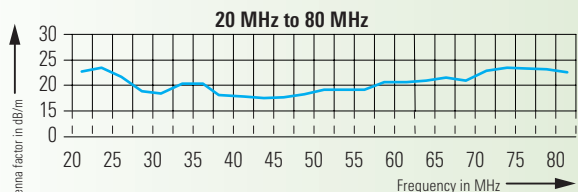
Frequency range	20 MHz to 3 GHz
Polarization	linear/vertical
Input impedance	50 Ω
VSWR	typ. <3
Horizontal radiation pattern	omnidirectional
Antenna factor	see diagrams below
Field-strength sensitivity	
20 MHz to 1.3 GHz	typ. -23 dB(μV/m)
1.3 GHz to 3 GHz	typ. -20 dB(μV/m)
Destructive field strength	
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)
Protection class	IP 55 to DIN 40050
Dimensions (L × W × H)	approx. 170 mm × 65 mm × 365 mm
Weight	approx. 1.2 kg

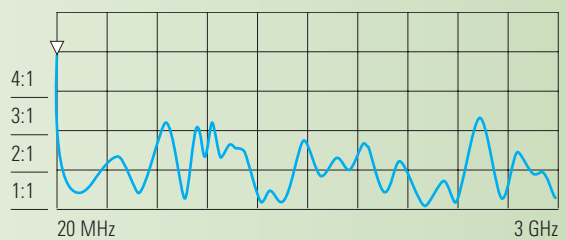
Ordering information

Active		
Receiving Antenna	R&S®HE500	4059.2005.02

Recommended extras		
Bias Unit	R&S®IN 500	4062.0880.02



Typical antenna factor



Typical VSWR characteristic