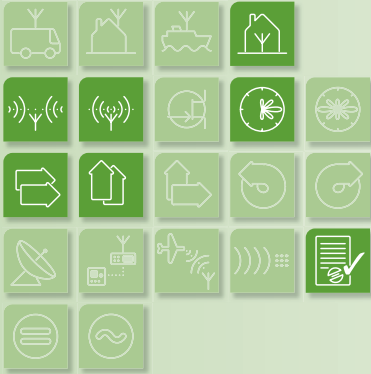


VHF/UHF Antennas

ULTRALOG R&S® HL 562



30 MHz to 3000 MHz

Features

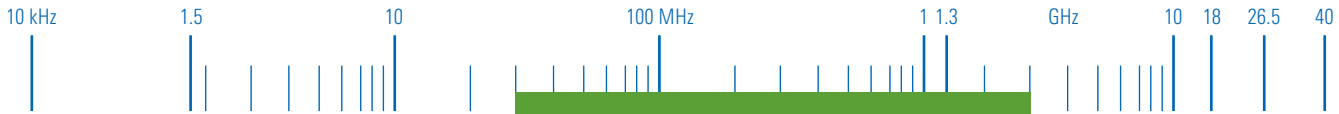
- ◆ Only one antenna required to cover an extremely wide frequency range
- ◆ Selectable polarization plane
- ◆ Gain increase at high frequencies
- ◆ Generation of high field strengths for EMS measurements
- ◆ Compact size
- ◆ Individual calibration to ANSI C63.5 and DIN 45003



Brief description

The ULTRALOG R&S® HL562 combines the characteristics of a biconical and a log-periodic antenna. The ULTRALOG is mainly used for measuring emissions in the extremely wide frequency range from 30 MHz to 3 GHz without change of the antenna.

The log-periodic part of the antenna is V-shaped in order to increase system sensitivity in particular between 500 MHz and 1 GHz. Unlike conventional solutions, this gain-increasing measure allows the compact size of the ULTRALOG to be maintained. Optimized symmetry and matching (VSWR) of the ULTRALOG allow its use in EMS measurements where field strengths of 10 V/m or higher are required. The ULTRALOG is supplied without tripod; the tripod shown is available as an extra.

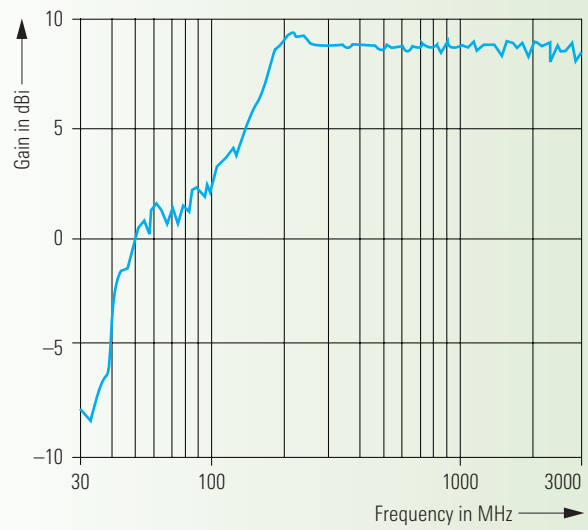


Specifications

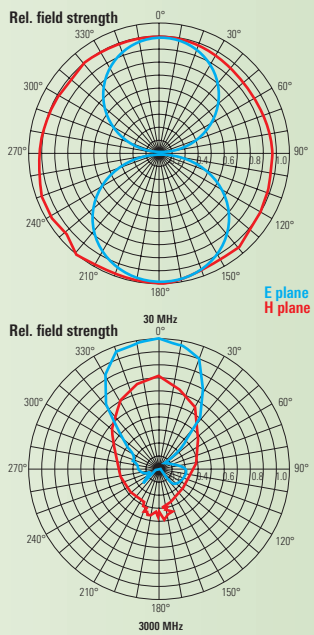
Frequency range	30 MHz to 3 GHz	Connector	N female
Polarization	linear	MTBF	>200 000 h
Polarization isolation	>20 dB	Class of application	laboratory
Input impedance	50 Ω	Operating	
VSWR	typ. <2	temperature range	0 °C to +40 °C
Gain above 200 MHz	typ. 8 dB	Dimensions (W × H × L)	approx. 0.6 m × 1.65 m × 1.68 m
Max. input power (T _A = +40 °C)		Weight	approx. 5 kg
30 MHz	150 W + 100% AM		
80 MHz	300 W + 100% AM		
250 MHz	500 W + 100% AM		
1 GHz	280 W + 100% AM		
3 GHz	180 W + 100% AM		

Ordering information

ULTRALOG	R&S®HL562	4041.3000.02	Recommended extras		
			Tripod, movable	R&S®HL562Z1	4041.3900.02



Typical gain



Typical radiation patterns