

# HL562E ULTRALOG

30 MHz to 6 GHz

Ultrabroadband antenna for EMI and  
EMS applications

New



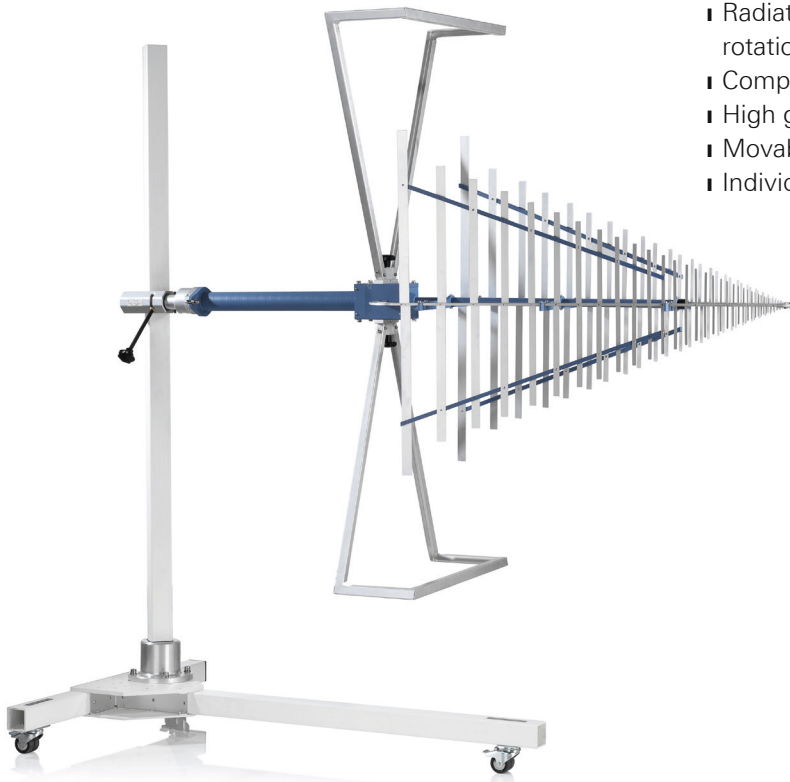
The HL562E ULTRALOG is used for emission and EMS measurements in the broad frequency range from 30 MHz to 6000 MHz. Measurement times are considerably reduced since it is not necessary to change antennas. Symmetry and matching (VSWR) of the HL562E allow its use in EMS measurements where field strengths of 10 V/m or higher are required.

The HL562E combines the characteristics of a biconical and a log-periodic antenna. The log-periodic part of the antenna is V-shaped in order to increase the system sensitivity, in particular above 1 GHz. This measure not only increases antenna gain, it is also the reason why the radiation pattern in the H plane is practically rotationally symmetrical to the pattern in the E plane.

The ULTRALOG is supplied without a tripod; the tripod shown is available as an extra. For use with the HL562Z1 tripod, an RF cable with a 90° angle connector is required.

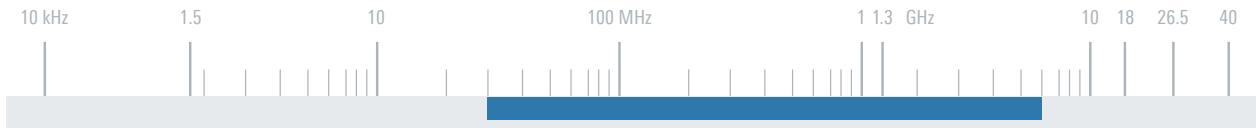
### Key facts

- Suitable for susceptibility and emission measurements
- No change of antennas needed throughout the whole frequency range
- Radiation patterns in E and H plane practically rotationally symmetrical (from 200 MHz to 6000 MHz)
- Compact size, low weight
- High gain, low antenna factor
- Movable tripod optionally available
- Individual calibration in line with ANSI C63.5



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### Specifications

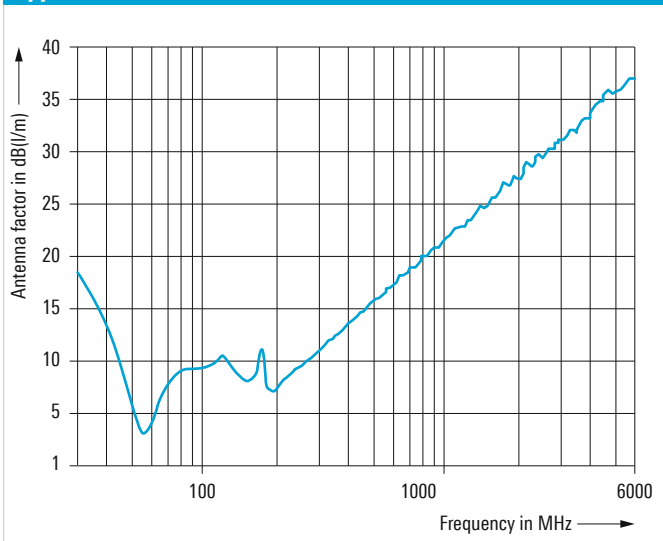
Frequency range	30 MHz to 6 GHz
Polarization	linear
Cross-polarization	< -20 dB
VSWR	2 (typ.)
RF connector	N female
Nominal impedance	50 $\Omega$
Gain (above 200 MHz)	8 dBi (typ.)
MTBF	> 200000 h

Max input power	
30 MHz	225 W CW
80 MHz	900 W CW
250 MHz	750 W CW
1 GHz	420 W CW
3 GHz	270 W CW
6 GHz	150 W CW
Operating temperature range	+5 °C to +40 °C
Class of operation	laboratory, anechoic chamber, outdoor use up to 20 km/h wind speed
Dimensions (W x H x L)	approx. 0.57 m x 1.43 m x 1.65 m (22.4 in x 56.3 in x 65 in)
Weight	approx. 5 kg (11 lb)

### Ordering information

Ordering information	Type	Order No.
ULTRALOG	HL562E	4100.0007.02
<b>Recommended extras</b>		
Movable Tripod	HL562Z1	4041.3900.02

### Typical antenna factor



### Typical radiation patterns

