R&S®HL562E ULTRALOG

30 MHz to 6 GHz

Ultrabroadband antenna for EMI and EMS applications





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

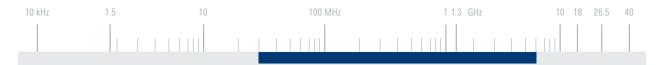
The R&S®HL562E combines the characteristics of a biconical and a log-periodic antenna. The log-periodic part of the antenna is V-shaped in order to increase gain and to achieve an almost rotation-symmetrical radiation pattern (above 200 MHz).

The ULTRALOG is supplied without a tripod; the tripod shown is available as an extra.

Key facts

- ▶ Suitable for immunity tests 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
- ► Factory standard calibration included
- ► Individual calibrations in line with ANSIC63.5, CISPR 16-1-6 and SAE ARP958
- ► Accredited calibration available on request
- ► 4 dB and 6 dB attenuators (HAIMP¹) in line with ANSIC63.4 and CISPR16-1-4 respectively with/without accredited calibration optionally available

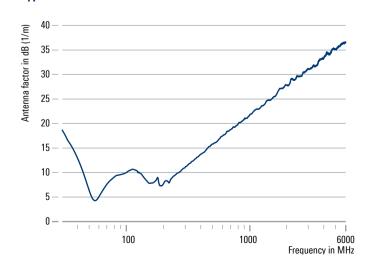
¹⁾ HAIMP: Hybrid antenna impedance matching pad.



	00.1411 - 0.011
	30 MHz to 6 GHz
	linear
	typ. $< -25 \text{ dB}$
above 200 MHz	typ. < 2
	N female
	50 Ω
above 200 MHz	typ. 8.5 dBi
	> 100 000 h
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
	-40°C to +40°C
laboratory, anechoic chamber, outdoor use up to 20 km/h wind speed	
approx. 0.57 m × 1.43 m × 1.65 m (22 in × 56 in × 65 in)	
	approx. 5 kg (11 lb)
	above 200 MHz 30 MHz 80 MHz 250 MHz 1 GHz 3 GHz 6 GHz laboratory, anechoic chamber, outdoor use up to

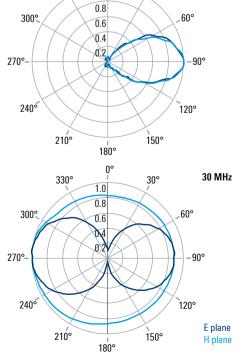
Ordering information	Туре	Order No.
ULTRALOG	R&S®HL562E	4100.0007.03
Recommended extras		
Movable tripod	R&S°HL562Z1	4041.3900.03
Attenuator, 4 dB, 2 W (HAIMP) or 6 dB, 2 W (HAIMP) with/without accredited calibration	R&S®HL562E-ATT	on request

Typical antenna factor



Typical radiation patterns 330°

1.0



> 200 MHz

30°