

R&S®HL040 Log-Periodic Broadband Antenna

400 MHz to 3.6 GHz

For broadband transmission and reception under open-field and laboratory conditions



The R&S®HL040 log-periodic broadband antenna provides broadband transmission and reception in the frequency range from 400 MHz to 3.6 GHz. Due to its large bandwidth, the antenna covers the frequency ranges of various mobile radio systems.

The antenna features high symmetry and virtually frequency-independent radiation pattern.

Each R&S®HL040 is supplied with an individual calibration certificate so that even field strength and EMC measurements can be performed.

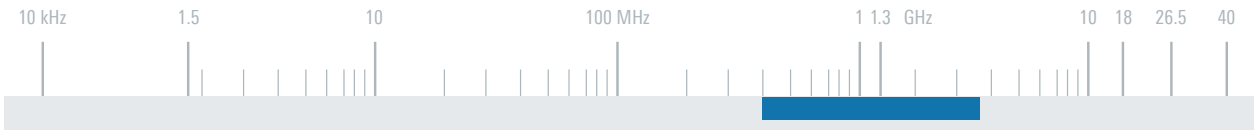
With the sturdy radome, the antenna can be used under the most adverse weather conditions.

Key facts

- Wide bandwidth
- Coverage of various mobile radio frequency ranges
- Suitable for field strength and EMC measurements due to high precision
- Individual calibration in line with ANSI C63.5
- Compact and sturdy design
- For use in the lab and for open-field applications



Antenna with R&S®HL025Z1 adapter and R&S®HZ-1 wooden tripod.



Specifications	
Frequency range	400 MHz to 3.6 GHz
Polarization	linear
Input impedance	50 Ω
VSWR	< 2.5 (typ. < 2.0)
Max. input power	150 W to 50 W CW
Gain	5 dBi to 7 dBi
Front-to-back ratio	
400 MHz to 450 MHz	> 10 dB
450 MHz to 3.6 GHz	> 15 dB

Polarization decoupling	> 20 dB
Connector	N female
MTBF	> 150 000 h
Operating temperature range	-40°C to +70°C
Max. wind speed	200 km/h (without ice deposit)
Dimensions (W × H × L)	approx. 300 mm × 130 mm × 680 mm (11.8 in × 5.1 in × 26.8 in)
Weight	approx. 2.8 kg (6.2 lb)

Ordering information	Type	Order No.
Log-Periodic Broadband Antenna	R&S®HL040	4035.8755.02
Recommended extras		
Adapter for R&S®HZ-1	R&S®HL025Z1	4053.4006.03
Wooden Tripod	R&S®HZ-1	0837.2310.02

