

R&S®HL050 Log-Periodic Antenna

850 MHz to 26.5 GHz

Log-periodic directional antenna for linear polarization



Its broadband characteristics make the R&S®HL050 log-periodic antenna ideal for radiomonitoring and measurements tasks.

When used as a feed in reflector antennas, the antenna offers optimum secondary radiation characteristics due to its almost rotation-symmetrical radiation pattern.

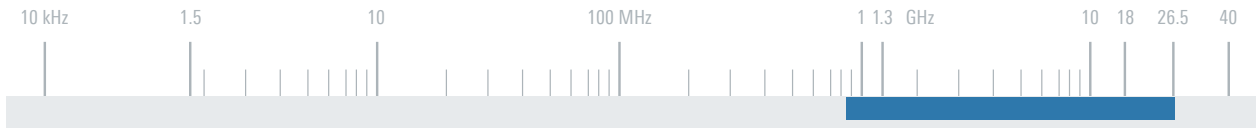
The R&S®HL050 can be used as a separate antenna or as a feed for the R&S®AC008 microwave directional antenna.

An individual calibration of the free-space antenna factors is optionally available.

Key facts

- ▀ Extremely wide frequency range
- ▀ Rotation-symmetrical radiation patterns
- ▀ High gain due to V-shaped configuration of antenna elements
- ▀ Usable as a feed for R&S®AC008 microwave directional antenna





Specifications

Frequency range	850 MHz to 26.5 GHz
Polarization	linear
Input impedance	50 Ω
VSWR	≤ 2.5
Max. input power	10 W to 2 W
Gain	typ. 8.5 dBi
Connector	PC 3.5 female
MTBF	> 150000 h

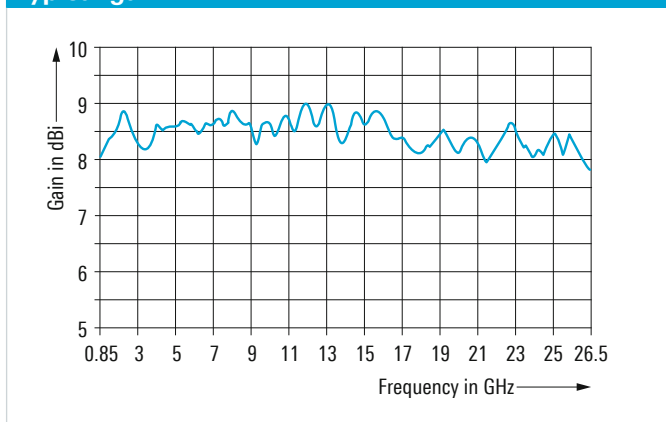
Operating temperature range	-30°C to +55°C
Protection class	IPx5
Max. wind speed	180 km/h (without ice deposit)
Dimensions ($\varnothing \times H$; with radome)	approx. 210 mm \times 300 mm (8 in \times 12 in)
Weight	approx. 0.7 kg (2 lb)

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Ordering information

	Type	Order No.
Log-Periodic Antenna	R&S®HL050	4062.4063.02
Standard Calibration (free-space antenna factors)	R&S®HL050-CAL	4062.4257.02
Accredited Calibration (free-space antenna factors; up to 18 GHz)	R&S®HL050-DKD	4060.6417.02
Recommended extras		
Microwave Cable, length: 5 m	R&S®AC008W2	0751.6931.04
Microwave Cable, length: 10 m	R&S®AC008W2	0751.6931.05
Adapter for R&S®HZ-1	R&S®HL025Z1	4053.4006.03
Wooden Tripod	R&S®HZ-1	0837.2310.02

Typical gain



Typical radiation patterns

