

# R&S®HL050/ R&S®HL050S1 Log-Periodic Antennas

850 MHz to 26.5 GHz

Log-periodic directional antennas for linear polarization



## Features

- ▮ Extremely wide frequency range
- ▮ Rotation-symmetrical radiation patterns
- ▮ High gain due to V-shaped configuration of antenna elements
- ▮ Ideal for use as a feed for the R&S®AC008 microwave directional antenna and the R&S®AC090 to R&S®AC300 SHF directional antenna systems

## Brief description

Due to its broadband characteristics, the R&S®HL050 log-periodic antenna is particularly suitable for radiomonitoring and measurements.

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.

The R&S®HL050S1 is electrically identical but can be mechanically adapted for use as a feed for the R&S®AC090 to R&S®AC300 SHF directional antenna systems.





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	>1 000 000 h

Operating temperature range	-30°C to +55°C
Max. wind speed	180 km/h (without ice deposit)
Dimensions (diameter × height; with radome)	approx. 210 mm × 300 mm (approx. 8.3 in × 11.8 in)
Weight	approx. 0.7 kg (approx. 1.5 lb)

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Ordering information	Type	Order No.
<b>Log-Periodic Antenna</b>		
	R&S®HL050	4062.4063.02
	R&S®HL050S1	4065.0100.02
<b>Recommended extras</b>		
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

