

SHF Antennas

Log-Periodic Antennas

R&S® HL 050/R&S® HL 050S1



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 Microwave Directional Antenna R&S® AC008 and the SHF Directional Antenna Systems R&S® AC090 to R&S® AC300

Brief description

Due to its broadband characteristics, the Log-Periodic Antenna R&S® HL050 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 Microwave Directional Antenna R&S® AC008.

The R&S® HL050S1 is of identical design and used as a feed for the SHF Directional Antenna Systems R&S® AC090 to R&S® AC300.



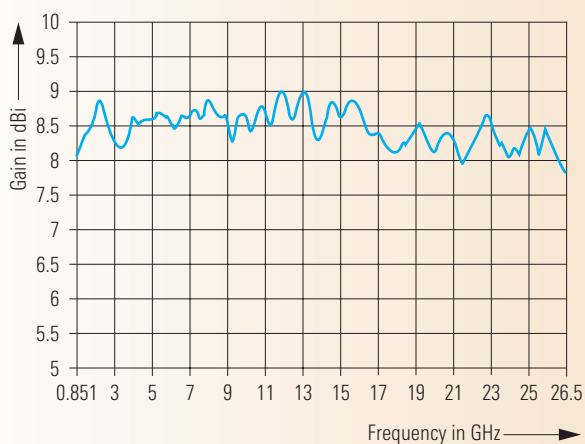
Specifications

Frequency range	850 MHz to 26.5 GHz	Operating temperature range	-30 °C to +55 °C
Polarization	linear	Max. wind speed	180 km/h (without ice deposit)
Input impedance	50 Ω	Dimensions (diameter × height)	
VSWR	≤2.5	With radome	approx. 210 mm × 300 mm
Max. input power	10 W to 2 W	Weight	approx. 0.7 kg
Gain	typ. 8.5 dBi		
Connector	PC 3.5 female		
MTBF	>1 000 000 h		

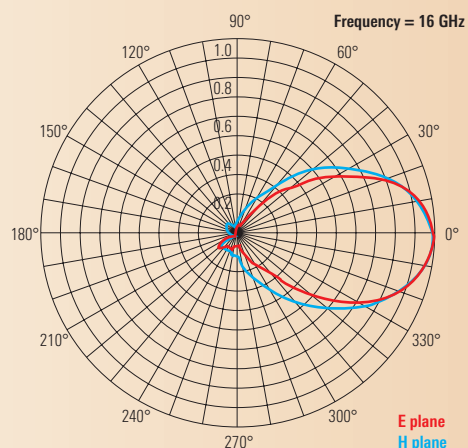
Ordering information

Log-Periodic Antenna	R&S®HL050	4062.4063.02
Log-Periodic Antenna	R&S®HL050S1	4065.0100.02

Recommended extras		
Microwave Cable, 5 m	R&S®AC008W2	0751.6931.04
Microwave Cable, 10 m	R&S®AC008W2	0751.6931.05
Mast Adapter	R&S®HL025-Z	0661.9910.02
Adapter for R&S®HZ-1	R&S®HL025Z1	4053.4006.02
Wooden Tripod	R&S®HZ-1	0837.2310.02



Typical gain



Typical radiation pattern