R&S®HL050S7 LOG-PERIODIC DIRECTIONAL ANTENNA WITH PREAMPLIFIER

850 MHz to 26.5 GHz

Log-periodic directional antenna consisting of the R&S®HL050 and a broadband preamplifier for linear polarization



The R&S®HL050S7 log-periodic directional antenna consists of the R&S®HL050 log-periodic antenna with preamplifier and is suitable for the reception of linearly polarized waves.

The extremely broadband and low-noise integrated preamplifier prevents a significant reduction in S/N due to loss in RF cables connecting the antenna to a receiver.

Due to its almost rotation-symmetrical radiation pattern, the R&S*HL050S7 offers optimum secondary radiation characteristics for use as a feed in reflector antennas. It is ideal as a feed for the R&S*AC008 microwave directional antennas.

Key facts

- ► Extremely wide frequency range
- ► Rotation-symmetrical radiation patterns
- ► Stable radiation patterns/optimum EUT illumination
- ► High gain due to V-shaped configuration of antenna elements
- ► No reduction in S/N due to the use of a low-noise amplifier at the antenna output
- ► Usable as a feed for R&S®AC008 microwave directional antenna
- ► Preamplifier can be bypassed via control unit, e.g. at high field strengths





	850 MHz to 26.5 GHz
	linear
	50 Ω
	< 3
	typ. 7.5 dBi
	typ. 37.5 dB
	max. 3.6 dB
	min. > 5 dBm
amplifier	15 V/0.2 A (max.)
switching relay	12 V/0.75 A (max.)
	PC 3.5 female
	10 pin female
	> 100 000 h
	-30°C to +55°C
	180 km/h
$\emptyset \times H$	approx. 210 mm \times 390 mm (8 in \times 15 in)
	approx. 1.7 kg (4 lb)
	switching relay

Ordering information	Туре	Order No.
Log-periodic directional antenna with preamplifier	R&S®HL050S7	4064.6040.02
Recommended extras		
Control unit	R&S®GB016	4056.7006.03
Control cable, length: 10 m	R&S°GB016Z1	4056.7270.02
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
Module for R&S*OSP, for controlling R&S*HL024Sx and R&S*HL050S7	R&S°OSP-BS016	4118.6007.03
Open switch and control platform, without touchscreen	R&S®OSP-220	1528.3105.02
Open switch and control platform, with touchscreen	R&S®OSP-230	1528.3105.03

Typical radiation patterns

