

R&S®HL033 Log-Periodic Broadband Antenna

80 MHz to 2 GHz

Detection and measurement of RF signals



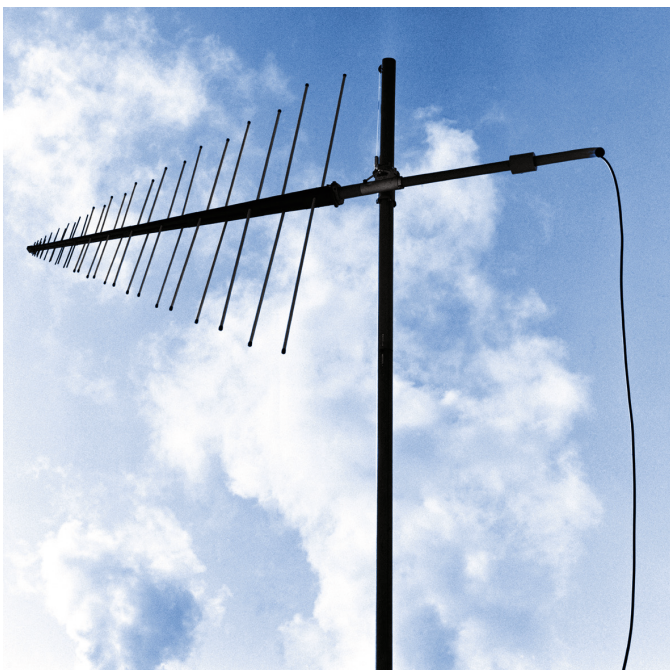
In conjunction with a test or monitoring receiver, the R&S®HL033 log-periodic broadband antenna can be used for versatile applications, e.g. field strength measurements or determination of direction of incidence and signal polarization.

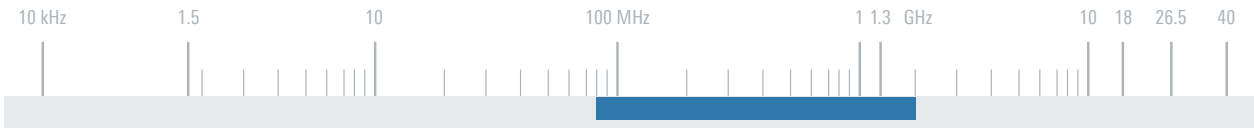
Each antenna is individually calibrated. An accredited calibration of the free-space antenna factors is optionally available.

The R&S®HL033 can also be used as a transmit antenna over the entire frequency range.

Key facts

- Extremely broadband
- Only one antenna required to cover a wide frequency range
- Low frequency-dependence of radiation patterns and input impedance
- Usable as transmit antenna
- Metal parts electrically connected to mast flange for protection against electric charges and lightning
- Highly weatherproof
- Stable installation due to optional adapter for center support
- Individual calibration of free-space antenna factors





Specifications	
Frequency range	80 MHz to 2 GHz
Polarization	linear
Input impedance	50 Ω
VSWR	typ. ≤ 2
Max. input power (T _A = +30°C)	
80 MHz	460 W + 100% AM
100 MHz	430 W + 100% AM
500 MHz	210 W + 100% AM
1000 MHz	160 W + 100% AM
1500 MHz	140 W + 100% AM
2000 MHz	120 W + 100% AM

Gain	typ. 6.5 dBi (see diagram)
Connector	N female
MTBF	> 1 000 000 h
Operating temperature range	-40°C to +50°C
Max. wind speed	150 km/h (without ice deposit)
Dimensions (W × L)	approx. 1.96 m × 1.8 m (6 ft × 6 ft)
Weight	approx. 6 kg (13 lb)

Ordering information	Type	Order No.
Log-Periodic Broadband Antenna	R&S®HL033	4062.6608.03
Recommended extras		
Adapter for center support	R&S®HL033M	4062.7585.03

