

R&S®HL033 LOG-PERIODIC BROADBAND ANTENNA

80 MHz to 2 GHz

Detection and measurement of RF signals



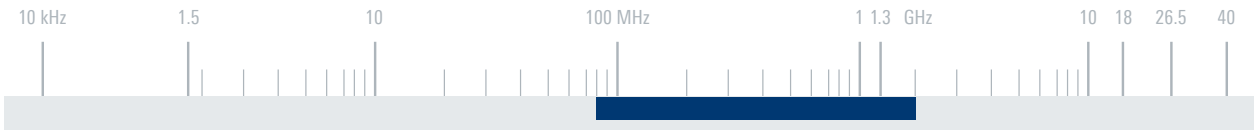
In conjunction with a test or monitoring receiver, the R&S®HL033 log-periodic broadband antenna can be used for versatile applications, e.g. field strength measurements or determination of direction of incidence and signal polarization.

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 calibrations in line with ANSI C63.5 and CISPR 16-1-6
- ▶ Accredited calibration available on request

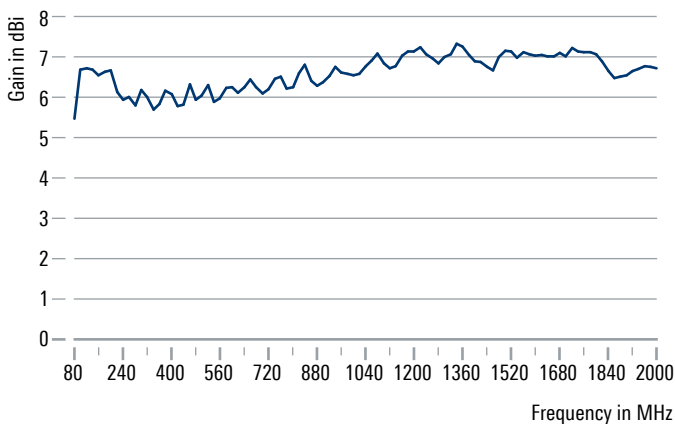




Specifications		
Frequency range		80 MHz to 2 GHz
Polarization		linear
Input impedance		50 Ω
VSWR		typ. ≤ 2
Max. input power (T _A = +30°C)	80 MHz	460 W + 100% AM
	100 MHz	430 W + 100% AM
	500 MHz	210 W + 100% AM
	1000 MHz	160 W + 100% AM
	1500 MHz	140 W + 100% AM
	2000 MHz	120 W + 100% AM
Gain		typ. 6 dBi (see diagram)
Connector		N female
MTBF		> 100 000 h
Operating temperature range		-40°C to +50°C
Max. wind speed	without ice deposit	150 km/h
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 extra		
Adapter for center support	R&S®HL033M	4062.7585.03

Typical gain



Typical radiation patterns

