

R&S®HK055L1 BROADBAND MOBILE ANTENNA

27.5 MHz to 600 MHz

Compact transmitting/receiving antenna specially designed for operation on vehicles



The R&S®HK055L1 broadband mobile antenna covers the extremely wide frequency range from 27.5 MHz to 600 MHz.

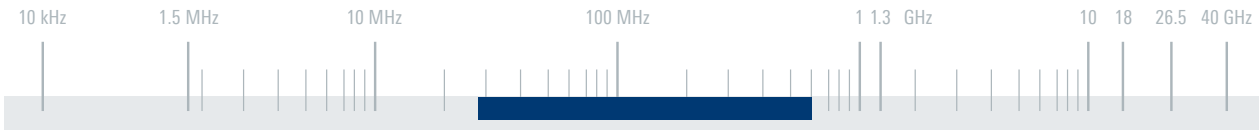
It is designed for mobile transmission and reception in connection with multiband, multirole radios (MMR).

The antenna features outstanding characteristics; no tuning equipment is required, making it ideal for hopping and for multichannel operation.

The antenna is equipped with a spring at its base. If the antenna hits an obstacle, it will bend and automatically return to its vertical position.

Key facts

- ▶ Extremely wide frequency range
- ▶ Compact dimensions
- ▶ High efficiency
- ▶ Rugged design especially for rough handling on board vehicles
- ▶ Wide operating temperature range
- ▶ Especially suitable for multiband multirole radios (MMRs)



Specifications		
Frequency range	27.5 MHz to 600 MHz	
Polarization	vertical	
Input impedance	50 Ω	
VSWR	< 3.0; 2.0 (typ.) (measured on a 3 m × 3 m ground plane)	
Gain	27.5 MHz to 110 MHz	-1 dBi to +2 dBi (typ.) (measured on a 3 m × 3 m ground plane)
	110 MHz to 600 MHz	0 dBi to +2 dBi (typ.) (measured under free-space conditions)
Azimuth pattern	omnidirectional	
Maximum deviation from circularity	±1 dB	
Elevation pattern	< 110 MHz	monopole-like
	> 110 MHz	dipole-like
Input power	≥ 30 MHz	max. 100 W (CW)
	< 30 MHz	max. 50 W (CW)
MTBF	> 100 000 h	
Connector	N female	
Operating temperature range	-40°C to +85°C	
Protection class	IP55	
Maximum wind speed	200 km/h	
Dimensions	Ø × L	approx. 165 mm × 1580 mm (7 in × 62 in)
Weight	approx. 19 kg (42 lb)	

Ordering information	Type	Order No.
Broadband mobile antenna	R&S®HK055L1	
Color: bronze green (RAL 6031F9)		4067.0014.07
Color: sand yellow (RAL 1002)		4067.0014.05

**Typical elevation pattern in the E plane at 120 MHz
(measured on a 3 m × 3 m ground plane)**

VSWR (measured)

