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.

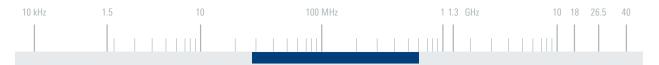
It is designed for mobile transmission and reception in connection with multiband, multirole radios (MMR).

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

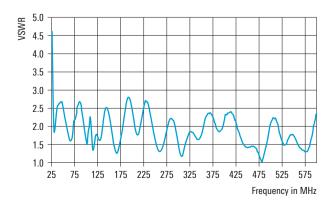
- ► Extremely wide frequency range
- ► Compact dimensions
- ► High efficiency
- Rugged design especially for rough handling on board vehicles
- ► Wide operating temperature range
- ► Especially suitable for multiband multirole radios (MMRs)



Specifications		
Frequency range		27.5 MHz to 600 MHz
Polarization		vertical
Input impedance		50 Ω
VSWR		< 2.5 (measured on a 3 m \times 3 m ground plane)
Gain	27.5 MHz to 110 MHz	-1 dBi to $+2$ dBi (typ.) (measured on a 3 m \times 3 m ground plane)
	110 MHz to 600 MHz	0 dBi to +2 dBi (typ.) (measured under free-space conditions)
Azimuth pattern		omnidirectional
Max. deviation from circularity		±1 dB
Elevation pattern	< 110 MHz	monopole-like
	> 110 MHz	dipole-like
Input power	≥ 30 MHz < 30 MHz	max. 100 W CW max. 50 W CW
MTBF		> 100 000 h
Connector		N female
Operating temperature range		-40°C to +85°C
Protection class		IP55
Max. wind speed		200 km/h
Dimensions	Ø×L	approx. 165 mm × 1585 mm (7 in × 62 in)
Weight		approx. 19 kg (42 lb)

Ordering information	Туре	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 VSWR characteristic



Typical elevation pattern in the E plane at 120 MHz (measured on a $3 \text{ m} \times 3 \text{ m}$ ground plane)

