

# R&S®HK061 VEHICULAR BROADBAND COMMUNICATIONS ANTENNA

30 MHz to 600 MHz

Compact transmitting/receiving antenna specially designed for operation on vehicles



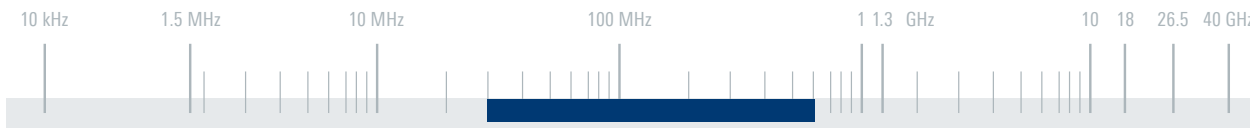
The R&S®HK061 vehicular broadband communications antenna is designed for mobile and semi-stationary communications tasks.

The antenna elements are integrated in a highly ruggedized radome (weather resistant and oak beam test proved) and are connected to the antenna base via a spring element with a tilt and erect function.

The antenna is installed using a four-hole NATO flange, which provides for easy integration in numerous existing systems.

## Key facts

- ▶ Extremely wide frequency range
- ▶ Inconspicuous design, favorable form factor
- ▶ High efficiency
- ▶ Excellent radiation characteristics
- ▶ For use in harsh environments
- ▶ Wide operating temperature range
- ▶ Version with integrated GPS antenna available

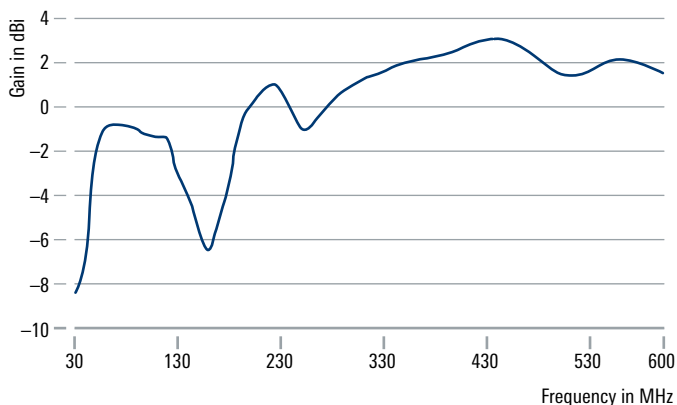


Specifications		
Frequency range		30 MHz to 600 MHz
Connector		N female, 50 Ω
VSWR (measured on a 3 m × 3 m ground plane)		< 3.0 (typ.)
Gain		see diagram
Azimuth pattern		omnidirectional
Maximum deviation from circularity		±1 dB
Elevation pattern	< 170 MHz	monopole-like
	> 170 MHz	dipole-like
Input power	up to +50°C	max. 100 W (CW)
	at +71°C	max. 50 W (CW)
Protection class		IP67, in line with EN 60529
Operating temperature range		-40°C to +71°C
Dimensions	length	approx. 2.2 m (7 ft)
	radome diameter	approx. 40 mm (2 in)
	flange diameter	approx. 140 mm (6 in)
Weight	models .03, .04, .05	approx. 9 kg (20 lb)
	model .13, .14, .15	approx. 10 kg (22 lb)

4

Ordering information	Type	Order No.
<b>Vehicular broadband communications antenna</b>	R&S®HK061	
Color: bronze green (RAL 6031F9)		4076.0007.05
Color: sand yellow (RAL 1002)		4076.0007.03
Color: squirrel gray (RAL 7000)		4076.0007.04
With integrated GPS antenna, color: sand yellow (RAL 1002)		4076.0007.13
With integrated GPS antenna, color: squirrel gray (RAL 7000)		4076.0007.14
With integrated GPS antenna, color: bronze-green (RAL 6031F9)		4076.0007.15

Typical gain (measured on a 3 m × 3 m ground plane in horizontal direction)



Typical patterns at 200 MHz (measured on a 3 m × 3 m ground plane)

