

R&S®HK001E UHF COAXIAL DIPOLE

225 MHz to 450 MHz

UHF omnidirectional antenna for vertical polarization



The R&S®HK001E UHF coaxial dipole is a vertically polarized, omnidirectional antenna for fixed and mobile applications, particularly for use on board ships. It is suitable for both transmission and reception.

A mast stub mounted on the dipole's base plate provides a convenient antenna interface for customer applications.

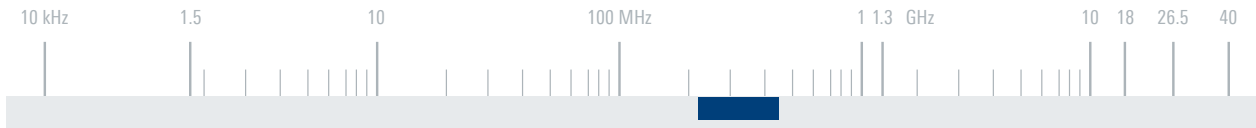
The entire antenna system is splash water resistant.

The antenna can also be fitted upside down, if required.

Key facts

- ▶ Ideal for military aeronautical radio
- ▶ Particularly for use on ships
- ▶ RCS optimized
- ▶ Rugged design
- ▶ Minimal wind load
- ▶ High protection against lightning strikes in the vicinity





Specifications

Frequency range	225 MHz to 450 MHz	
Polarization	linear/vertical	
Input impedance	50 Ω	
VSWR	≤ 2	
Max. input power	400 W CW	
Gain	typ. 2 dBi	
Horizontal radiation pattern	omnidirectional	
Uncircularity	225 MHz to 400 MHz	typ. ±0.5 dB
	> 400 MHz to 450 MHz	typ. ±1 dB
RF connector	N female	
MTBF	> 100 000 h	
Operating temperature range	−40 °C to +70 °C	
Protection class	IP65	
Max. wind speed	without ice deposit	275 km/h
Dimensions	Ø × H	approx. 405 mm × 810 mm (16 in × 32 in)
Weight	approx. 3 kg (7 lb)	

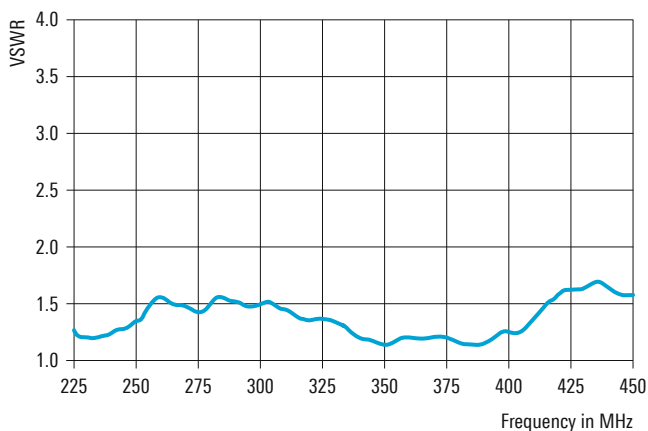
Ordering information

Ordering information	Type	Order No.
UHF coaxial dipole, color: squirrel gray (RAL 7000)	R&S®HK001E	4095.1005.02

Recommended extra

Mast, length: 6 m, pluggable	R&S®KM011	0273.9116.02
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Typical VSWR



Typical vertical radiation patterns

