

R&S®HK014E

VHF/UHF COAXIAL DIPOLE

100 MHz to 2 GHz

VHF/UHF omnidirectional antenna for vertical polarization



The R&S®HK014E VHF/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.

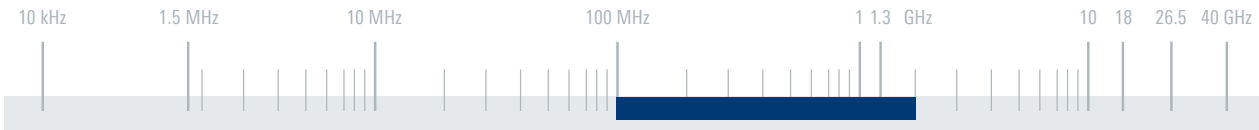
A mast stub mounted on the dipole's base plate provides a convenient antenna interface for customer applications.

The entire antenna system is splash water resistant.

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

Key facts

- ▶ Extremely wide frequency range
- ▶ High suppression of skin currents
- ▶ Filled-in vertical radiation pattern
- ▶ High protection against lightning strikes in the vicinity
- ▶ Sturdy design
- ▶ RCS optimized
- ▶ Minimal wind load
- ▶ Particularly for use on ships



Specifications

Frequency range	100 MHz to 2 GHz	
Polarization	linear/vertical	
Input impedance	50 Ω	
VSWR	< 2	
Permissible input power	up to 200 MHz	1000 W (CW)
	up to 500 MHz	600 W (CW)
	up to 1.3 GHz	400 W (CW)
	up to 2 GHz	300 W (CW)
Gain	2 dBi (typ.)	
Horizontal radiation pattern	omnidirectional	
Uncircularity	±1 dB	
Connector	N female	
MTBF	> 100 000 h	
Operating temperature range	-40°C to +70°C	
Protection class	IP65	
Maximum wind speed	without ice deposit	275 km/h
Dimensions	Ø × H	approx. 0.5 m × 1.4 m (2 ft × 5 ft)
Weight	approx. 15 kg (33 lb)	

4

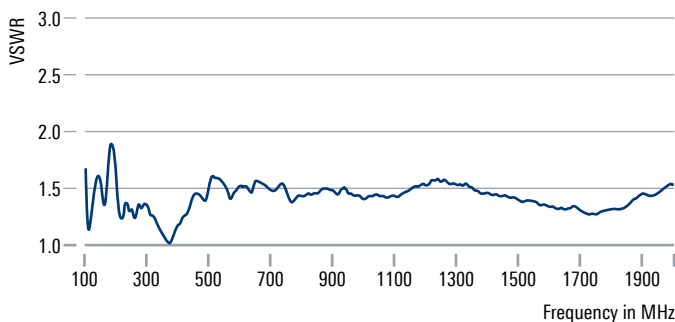
Ordering information

Ordering information	Type	Order No.
VHF/UHF coaxial dipole, color: squirrel gray (RAL 7000)	R&S®HK014E	4095.5000.02

Recommended extra

Diplexer for the ranges 100 MHz to 174 MHz/ 225 MHz to 450 MHz	R&S®FT224	0525.5117.04
--	-----------	--------------

Typical VSWR



Typical vertical radiation patterns

