

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.

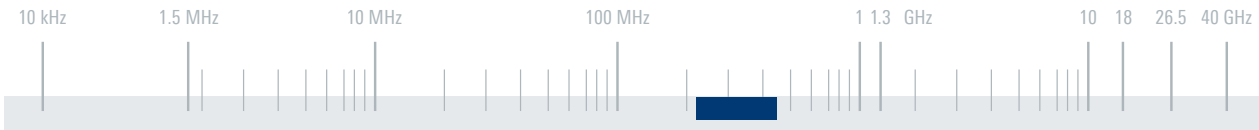
The entire antenna system is splash water resistant.

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



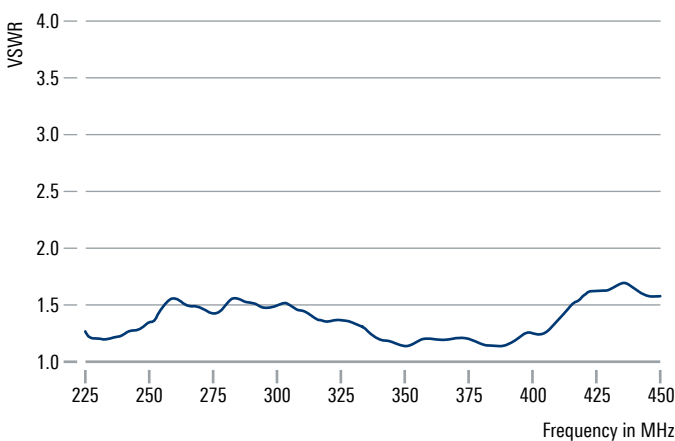


Specifications

| | | |
|------------------------------|----------------------|---|
| Frequency range | 225 MHz to 450 MHz | |
| Polarization | linear/vertical | |
| Input impedance | 50 Ω | |
| VSWR | < 2 | |
| Maximum input power | 400 W (CW) | |
| Gain | 2 dBi (typ.) | |
| Horizontal radiation pattern | omnidirectional | |
| Uncircularity | 225 MHz to 400 MHz | ±0.5 dB (typ.) |
| | > 400 MHz to 450 MHz | ±1 dB (typ.) |
| RF 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. 405 mm × 820 mm (16 in × 32 in) |
| Weight | approx. 3 kg (7 lb) | |

| 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 |

Typical VSWR



Typical vertical radiation patterns

