

# VHF/UHF Antennas

## VHF/UHF Coaxial Dipole R&S®HK033



**80 MHz to 2 GHz**

**Extremely broadband vertical coaxial  
dipole especially for use on ships**

### Features

- ◆ Wide frequency range
- ◆ Protection against lightning strokes
- ◆ Very low wind load
- ◆ Rugged mechanical design
- ◆ Low weight
- ◆ Ideal for aeronautical radio and monitoring applications

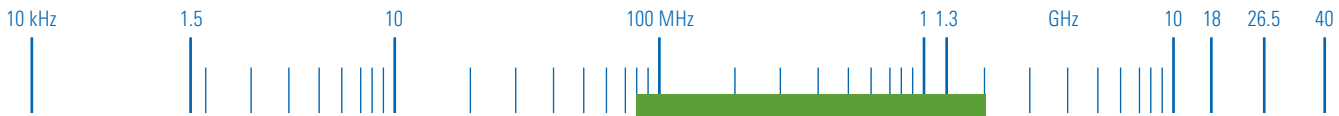
### Brief description

The VHF/UHF Coaxial Dipole R&S®HK033 is a very broadband omnidirectional antenna for vertically polarized signals.

It features a vertical radiation pattern with null fill-in and high suppression of skin currents.

Its rugged design, its low wind load and its integrated lightning protection circuit make the R&S®HK033 ideal for use on ships.





## Specifications

Frequency range	80 MHz to 2000 MHz
Polarization	linear/vertical
Input impedance	50 $\Omega$
VSWR	typ. <2.4
Max. input power	
Up to 100 MHz	860 W CW + 100% AM
Up to 400 MHz	430 W CW + 100% AM
Up to 600 MHz	360 W CW + 100% AM
Up to 1000 MHz	270 W CW + 100% AM
From 1300 MHz	240 W CW + 100% AM
Gain	typ. 2 dBi

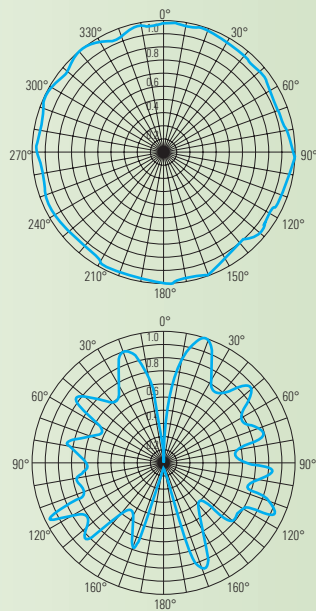
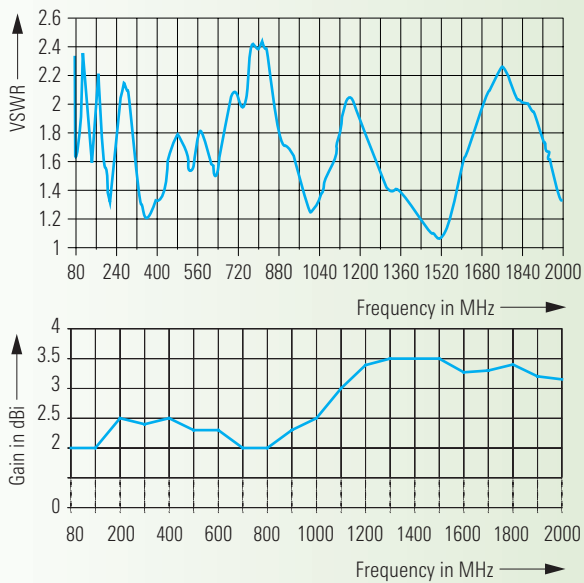
Horizontal radiation pattern	omnidirectional
Connector	N female
MTBF	1 000 000 h
Operating temperature range	-40°C to +85°C
Max. wind speed	160 km/h (without ice deposit)
Dimensions (diameter $\times$ height)	approx. 310 mm $\times$ 1250 mm
Weight	approx. 6 kg

## Ordering information

**VHF/UHF Coaxial Dipole** R&S®HK033 4062.8369.02

### Recommended extras

Diplexer for the ranges		
100 MHz to 162 MHz/		
225 MHz to 400 MHz	R&S®FT 224	0525.5117.03
Mast, 6 m, pluggable	R&S®KM011	0273.9116.02
Mast Adapter	R&S®KM011Z2	4022.3608.02



Typical VSWR and gain

Typical horizontal (top) and vertical (bottom) radiation pattern