

# R&S®HK033 VHF/ UHF COAXIAL DIPOLE

80 MHz to 2 GHz

Extremely broadband vertical coaxial dipole  
especially for use on board ships



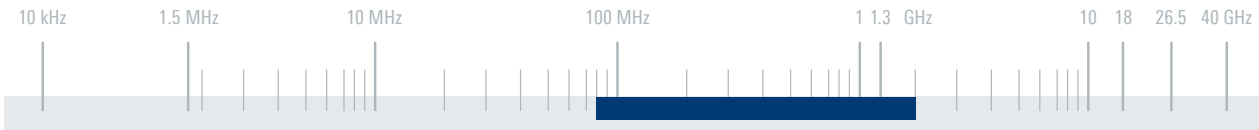
The R&S®HK033 VHF/UHF coaxial dipole is a very broadband omnidirectional antenna for vertically polarized signals.

It features a vertical radiation pattern with null fill and high suppression of skin currents on supporting mast and cables.

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

### Key facts

- ▶ Extremely broadband
- ▶ Protection against lightning strikes
- ▶ Very low wind load
- ▶ Rugged mechanical design
- ▶ Low weight
- ▶ Ideal for aeronautical radio and monitoring applications

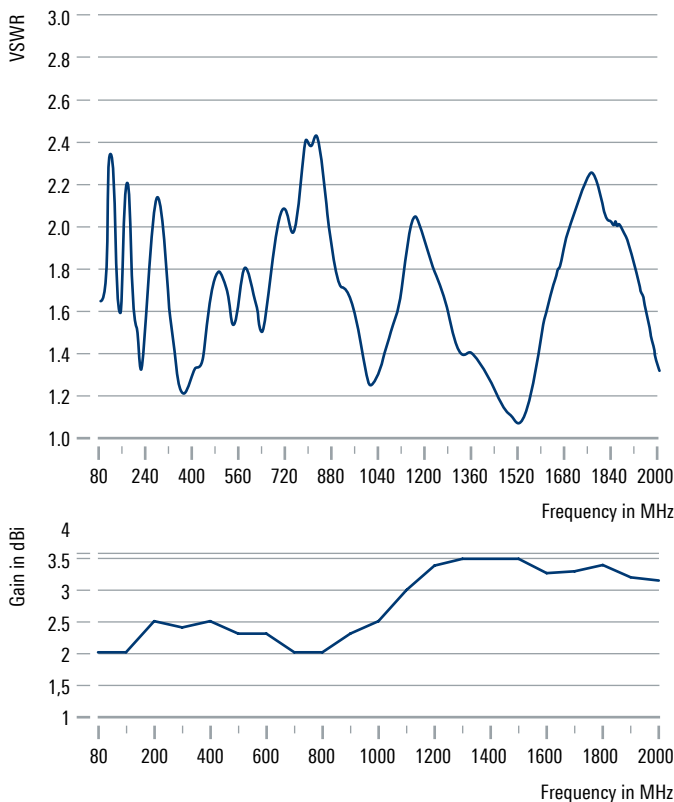


Specifications		
Frequency range		80 MHz to 2 GHz
Polarization		linear/vertical
Input impedance		50 Ω
VSWR		< 2 (typ.) (see diagram)
Maximum input power	100 MHz	860 W + 100% AM
	400 MHz	430 W + 100% AM
	600 MHz	360 W + 100% AM
	1000 MHz	270 W + 100% AM
	> 1300 MHz	240 W + 100% AM
Gain		2 dBi (typ.)
Horizontal radiation pattern		omnidirectional
Connector		N female
MTBF		> 100 000 h
Operating temperature range		-40°C to +85°C
Maximum wind speed	without ice deposit	240 km/h
Dimensions	Ø × H	approx. 0.308 m × 1.234 m (1 ft × 4 ft)
Weight		approx. 6 kg (13.2 lb)

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Ordering information	Type	Order No.
VHF/UHF coaxial dipole	R&S®HK033	4062.8369.02
<b>Recommended extras</b>		
Diplexer for the ranges from 100 MHz to 162 MHz/225 MHz to 450 MHz	R&S®FT224	0525.5117.03
Mast, length: 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 patterns

