R&S®HK014 VHF/UHF Coaxial Dipole

100 MHz to 1.3 GHz

VHF/UHF omnidirectional antenna for vertical polarization

Features

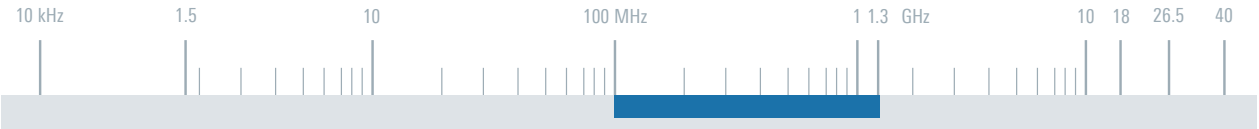
- Wide frequency range
- High suppression of skin currents
- Filled-in vertical radiation pattern
- High protection against lightning strokes in the vicinity
- Sturdy design
- Minimal wind load
- Low weight
- Can be used on ships

Brief description

The R&S®HK014 VHF/UHF coaxial dipole is an omnidirectional antenna for vertically polarized waves.

The antenna features high suppression of skin currents and high protection against lightning strokes in the vicinity.

Due to its sturdy design and low wind load, it is suitable for mobile use, in particular on ships.



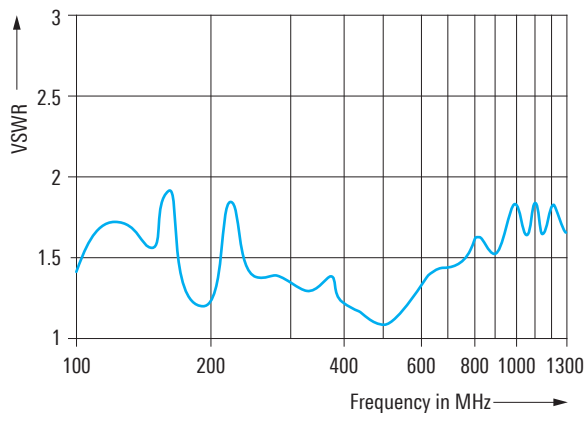
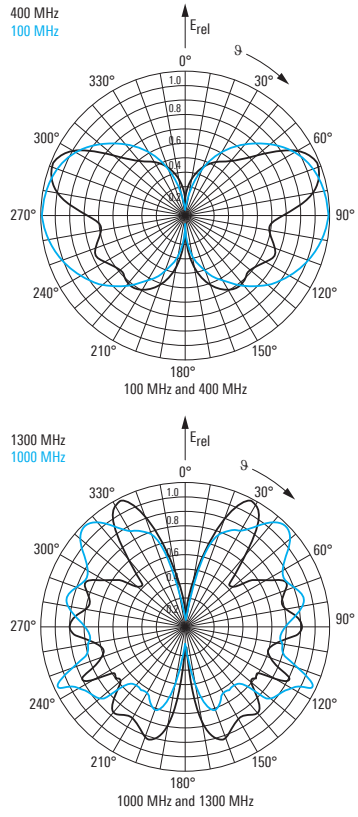
Specifications

Frequency range	100 MHz to 1.3 GHz
Polarization	linear/vertical
Input impedance	50 Ω
VSWR	typ. <2
Permissible input power	
Up to 150 MHz	800 W + 100% AM
Up to 400 MHz	430 W + 100% AM
Up to 1 GHz	270 W + 100% AM
Up to 1.3 GHz	240 W + 100% AM
Gain	typ. 2 dBi
Horizontal radiation pattern	omnidirectional
Max. deviation from circularity	±1 dB

Connector	N female
MTBF	>150000 h
Operating temperature range	–40°C to +85°C
Max. wind speed	160 km/h (without ice deposit)
Dimensions	
Diameter	approx. 310 mm (approx. 12.2 in)
Height	approx. 1100 mm (approx. 43.3 in)
Weight	approx. 5 kg (approx. 11 lb)

Ordering information	Type	Order No.
VHF/UHF Coaxial Dipole	R&S®HK014	0644.1514.02
Recommended extras		
Diplexer for the ranges 100 MHz to 162 MHz/225 MHz to 400 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



Typical vertical radiation pattern