

R&S®HX002H2

150 W HF Dipole

1.5 MHz to 30 MHz

With integrated antenna tuning unit optimized for shipboard applications



The R&S®HX002H2 150 W HF dipole is suitable for setting up radio links over any distance. In particular, the optimized omnidirectional coverage ensures high transmission reliability over short and medium distances.

The R&S®HX002H2 can be directly connected to R&S®M3SR Series4100 HF transceivers by means of the R&S®GK4102 fiber-optic control cable.

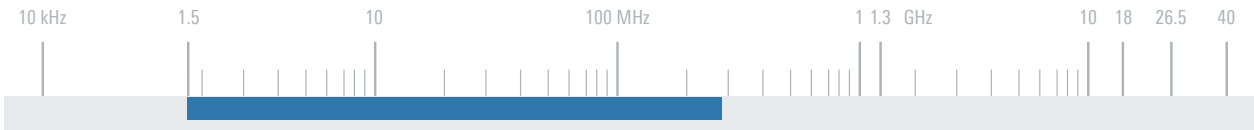
The antenna enables silent tuning over the entire frequency range from 1.5 MHz to 30 MHz. The integrated tuning unit must first learn the correct tuning settings for the antenna in a user-defined frequency range. The antenna then achieves tuning times of < 5 ms.

Special attention was paid to lightning protection. The integrated antenna tuning unit is protected against direct lightning strikes and was tested with 10 kV/10 kA discharges.

Key facts

- Omnidirectional coverage with high-angle radiation (NVIS)
- No skip zone
- Integrated antenna tuning unit for support of fast frequency hopping in line with R&S®SECOM-H
- Silent tuning
- Compatible with R&S®M3SR Series4100 HF transceivers
- Setup close to neighboring antennas possible
- Optimized for use on ships





Specifications	
Frequency range	1.5 MHz to 30 MHz
Polarization	
Mainly vertical	1.5 MHz to 2 MHz
Mainly horizontal	2 MHz to 30 MHz
Input impedance	50 Ω
VSWR	< 1.5; typ. < 1.3
Max. input power	100 W CW/150 W PEP
Tuning time	
Initial tuning	< 4 s; typ. 1.5 s
Repeated tuning	typ. < 0.2 s
Silent tuning	< 5 ms

Tuning power	30 W ± 1 dB
Connector	N female
Operating temperature range	-30°C to +55°C ¹⁾
Protection class	IP66
Max. wind speed (survival)	
Without ice deposit	250 km/h
With 20 mm radial ice deposit	140 km/h
Dimensions (W × L)	approx. 2.2 m × 5.2 m (7 ft × 17 ft)
Weight	approx. 32 kg (71 lb)

¹⁾ Partial power reduction at > +35°C.

Ordering information	Type	Order No.
150 W HF Dipole	R&S®HX002H2	6120.8006.02
Recommended extra		
Fiber-Optic Control Cable	R&S®GK4102	
10 m		6120.5707.10
25 m		6120.5707.25
50 m		6120.5707.50

