

# R&S®HX002H1

## 150 W HF Dipole

1.5 MHz to 30 MHz

With integrated antenna tuning unit  
for stationary applications

**New**



### Features

- Omnidirectional coverage with high-angle radiation (NVIS)
- No skip zone
- Integrated antenna tuning unit supports fast frequency hopping in line with R&S®SECOM-H
- Silent tuning
- Compatible with R&S®M3SR Series 4100 HF transceivers
- Can be set up close to neighboring antennas

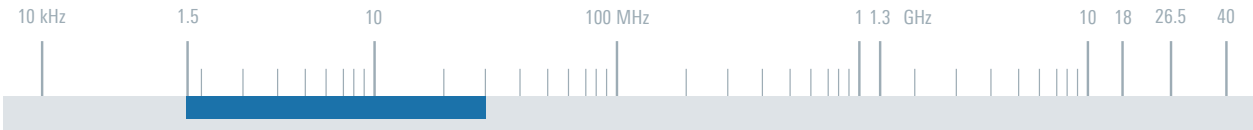
### Brief description

The R&S®HX002H1 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®HX002H1 can be directly connected to R&S®M3SR Series 4100 HF transceivers by means of the R&S®GK4102 fiber-optic control cable.

The antenna enables silent tuning across the entire frequency range from 1.5 MHz to 30 MHz. However, the antenna 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.





Specifications	
Frequency range	1.5 MHz to 30 MHz
Polarization	linear/horizontal
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
MTBF	>14600 h
Operating temperature range	-30°C to +55°C
Max. wind speed (survival)	
Without ice deposit	250 km/h
With 20 mm radial ice deposit	130 km/h
Dimensions	
Length	approx. 10.7 m (approx. 421.3 in)
Width	approx. 4.4 m (approx. 173.2 in)
Weight	approx. 43 kg (approx. 94.8 lb)

Ordering information	Type	Order No.
150 W HF Dipole	R&S®HX002H1	6120.7000.02
<b>Recommended extra</b>		
Fiber-Optic Control Cable	R&S®GK4102	
Length 10 m		6120.5707.10
Length 25 m		6120.5707.25
Length 50 m		6120.5707.50

