

# R&S®HX002M1

## 150 W HF Dipole

1.5 MHz to 30 MHz

With integrated antenna tuning unit for all distances  
– optimized for use on ships



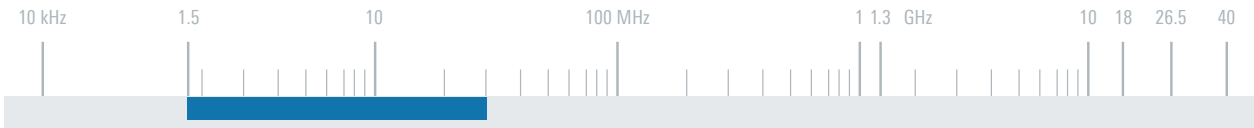
The R&S®HX002M1 150 W HF dipole provides good coverage over all distances. It is optimized for omnidirectional coverage and ensures high transmission reliability over short and medium distances. The antenna can easily be integrated into existing systems since no separate control lines are required. All control signals and power for the ATU are fed via the coaxial cable. The R&S®HX002M1 HF dipole can be directly connected to the R&S®XK2100 HF transceiver.

The antenna with its small size and improved environmental data is particularly suitable for use on ships.

### Key facts

- Omnidirectional coverage through high-angle radiation (NVIS)
- No skip zone
- Automatic adaptive operation
- Silent tuning
- No control line required
- Setup close to neighboring antennas possible
- Optimized for use on ships



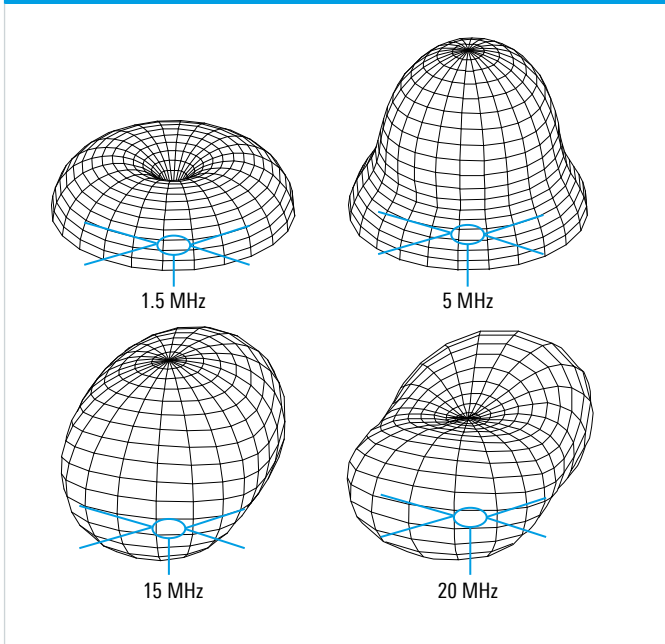


Specifications	
Frequency range	1.5 MHz to 30 MHz
Polarization	linear/horizontal
Input impedance	50 Ω
VSWR	< 1.5 (typ. < 1.3)
Max. input power	100 W CW/150 W PEP
Tuning time	
Without retuning	typ. 200 ms
Initial tuning	≤ 6 s (typ. 3 s)
Silent tuning	< 30 ms
Tuning power	30 W to 100 W

Control and power supply	via R&S®XK2100
Connector	N female
MTBF	> 12000 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	140 km/h
Dimensions (W × L)	approx. 2.2 m × 5.2 m (86.6 in × 204.7 in)
Weight	approx. 34 kg (75 lb)

Ordering information	Type	Order No.
150 W HF Dipole	R&S®HX002M1	4021.6003.02

Typical three-dimensional radiation patterns above perfectly conducting ground



Typical gain on a 5 m mast above perfectly conducting ground

