

7.5 m Self-Supporting MF/HF Transmitting Antenna for Mast Mounting

DESCRIPTION

- This antenna is intended for transmitting and receiving in the MF-HF range 1.4 - 30 MHz.
- Combined with an automatic antenna tuning unit (ATU) the HF 7500-3 forms a suitable antenna system for e.g. marine MF/HF SSB radio use.
- The antenna is designed for mast mounting with an open feeder installation.
- The antenna has very low base capacitance for best efficiency. The power rating of the antenna depends on frequency, but it can very safely be used with 500 W transmitters over the whole MF-HF band.
- Installation is easily carried out by means of the two hot galvanized mast clamps. The antenna has very small weight and minimum wind surface, thereby requiring only a minimum of mast strength.
- The glass fibre construction gives a stiff and self-supporting structure with extremely good resistance against the corrosive marine environment with UV-radiation, salt, exhaust gases and ice formation as the primary factors.
- HF 7500-3 is a maintenance-free and very reliable construction.

SPECIFICATIONS

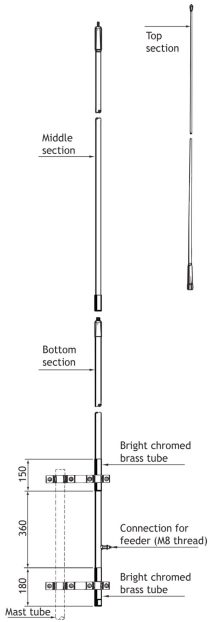
Electrical	
Model	HF 7500-3
Frequency	1.4 - 30 MHz
Antenna Type	Self-supporting antenna element
3 dB Beamwidth, H-Plane	Omnidirectional
Polarisation	Vertical
Capacitance	Approx. 90 pF
Maximum Input Power	500 W
Eff. Electr. Length	7.2 m / 283.46 in.

Mechanical	
Insulation Resistance	>10 ⁸ Ω
Wind Area	0.128 sq. m / 1.38 sq. ft
Connection(s)	Open feeder. See drawing
Materials	Shroud : Glass fibre Metal parts: Chromed brass
Colour	White (RAL 9003)
Length	7500 mm / 295.28 in.
Height	7500 mm / 295.28 in.
Wind Load	205 N (160km/h)
Dia. At Top End	5 mm / 0.20 in.
Weight	4.7 kg / 10.36 lb
Dia. At Bottom End	35 mm / 1.38 in.
Mounting	On 45 - 65 mm dia. mast tube

Environmental	
Operating Temperature Range	-30 °C to +70 °C
Survival Wind Speed	200 km/h
Ingress Protection	IP56

ORDERING

Type	Product No.
HF 7500-3	110000179



DIAGRAM

CLAMP DETAILS

