Marine VHF Antenna with Low Weight and Wind Load for Masthead Mounting

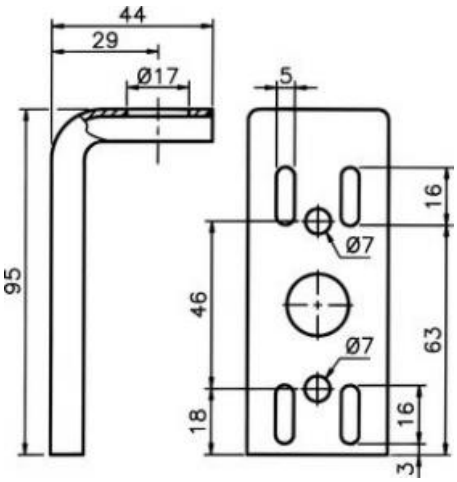
DESCRIPTION

- This marine VHF antenna is designed especially for mounting at the masthead of sailboats. The dimensions have been kept as small as possible to reduce weight, wind load and cost.
- Despite the small dimensions the efficiency is very high, and the antenna is fully capable of handling the full 50 W of output power from typical marine VHF transmitters.
- The tapered ½ λ stainless steel radiator together with the chromed brass housing and stainless steel corner bracket constitute an antenna tough and ready to cope with the corrosive environment at the masthead.
- The end-fed dipole principle makes the antenna independent of ground-plane, radials or other auxiliary arrangements.
- The antenna whip should not be mounted parallel or near to other metal parts, such as windex, supporting wires etc. Free mounting and as high as possible is preferable, otherwise the SWR and the radiation diagram will be influenced.

ORDERING

Type	Product No.	Description
MA 2-1 SC	110000133	Covers 156 - 162 MHz
MA 2-1 SC/160..175 MHz	110000396	To be tuned within 156 to 175 MHz

"YA" MOUNTING BRACKET DIMENSIONS



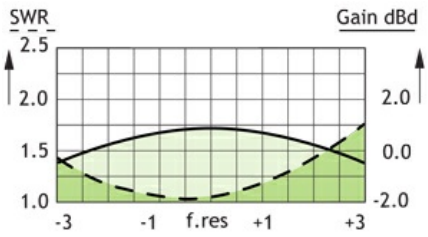
SPECIFICATIONS

Electrical	
Model	MA 2-1 SC
Frequency	Models within 156 - 175 MHz
Antenna Type	Dipole, end-fed
Max. Input Power	50 W
Polarisation	Vertical
3 dB Beamwidth, H-Plane	Omnidirectional
Impedance	50 Ω
Gain	0 dBd (2.2 dBi)
VSWR	< 2.0:1
Bandwidth	6 MHz

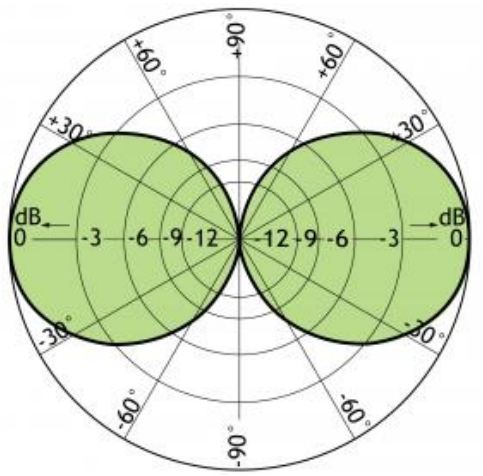
Mechanical	
Connection(s)	UHF female
Materials	Whip : Stainlesssteel Housing: Chromed brass
Colour	White / Metallic Silver
Wind Area	0.0076 sq. m / 0.08 sq. ft
Wind Load	8.9 N (160km/h)
Height	1100 mm / 43.31 in.
Weight	0.26 kg / 0.57 lb
Mounting	With screws, rivets or binder

Environmental	
Operating Temperature Range	-30°C to +70°C

TYPICAL GAIN AND SWR CURVE



TYPICAL RADIATION PATTERN (E-PLANE)



TYPICAL RADIATION PATTERN (H-PLANE)