

# Seawater resistant ADS-B Antenna For off-shore use

AvionixTech

# 1.Introduction

This ADS-B antenna, made of V4A (1.4571 316Ti) stainless special steel, is suitable for off-shore use and includes mounting kit. Condensation in the antenna itself is excluded by a hermetically sealed seal.

Certified according to MIL-STD-810G, method 509.5 (48/48h).

The passive antenna has a high gain (+5.5 dBi) on the frequency range of 1090 MHz for receiving Mode-S and ADS-B signals. It's suitable for installations with short to medium length antenna cables or when using low-loss cables.

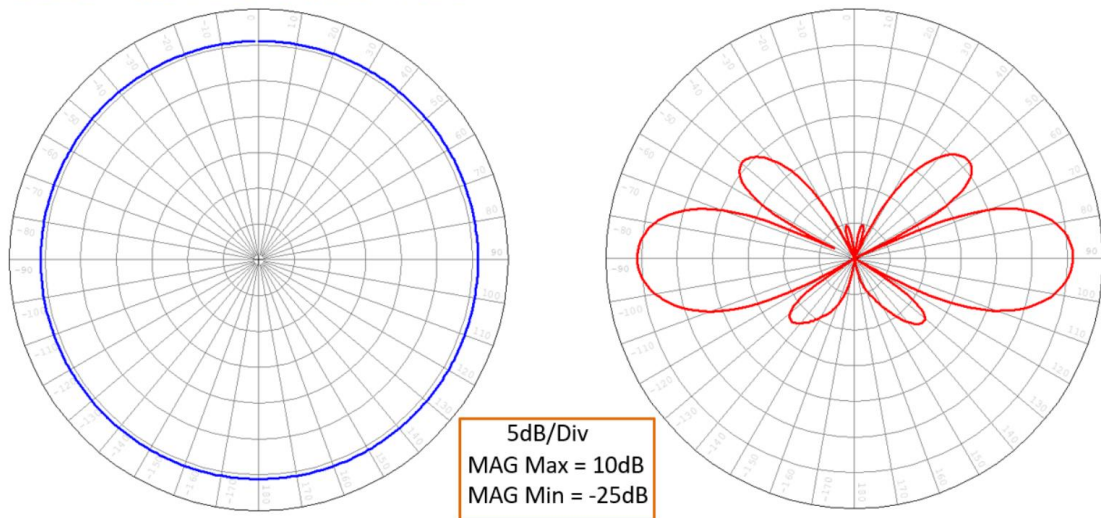


## 2. Technical data

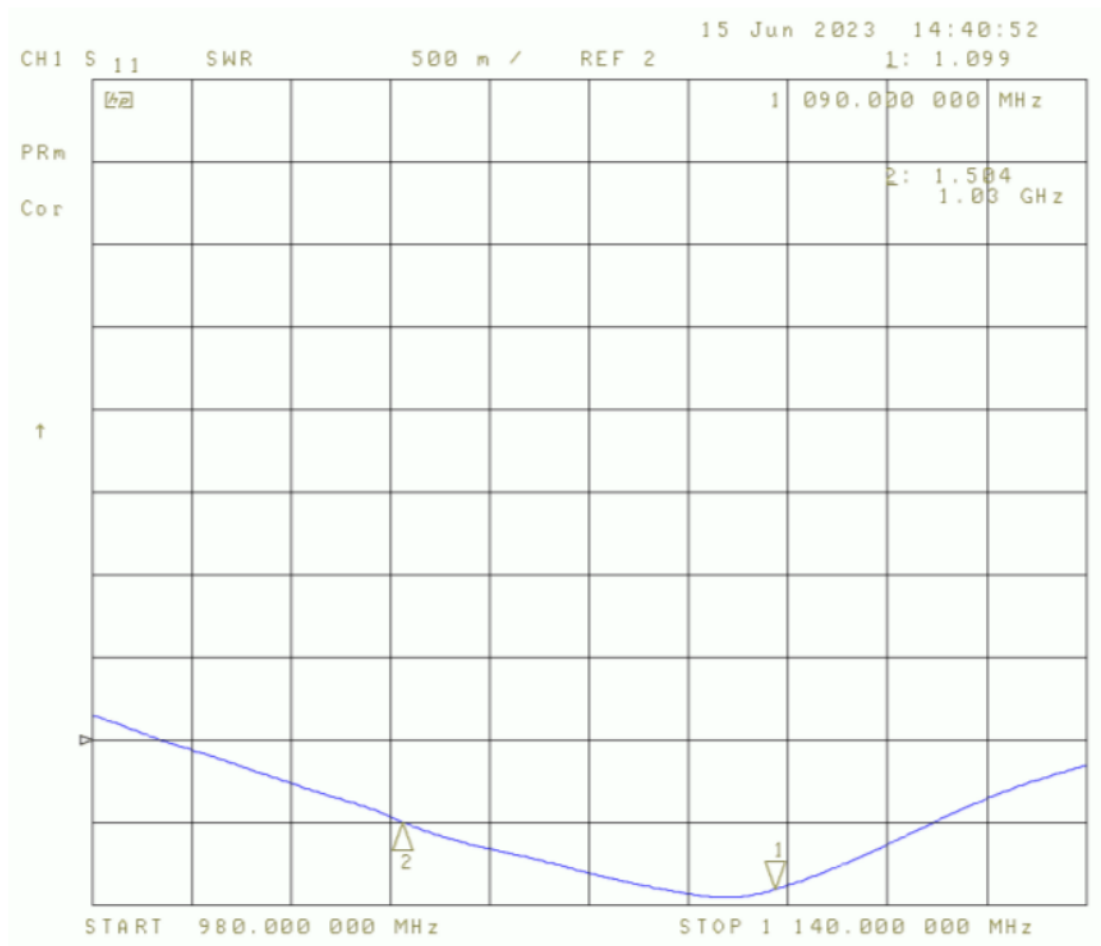
### A3 ADS-B Antenna 1090 MHz V4A off-shore

Operating frequency band (MHz)	1065-1134
Impedance (Ohm)	50
VSWR, not more than	1,5
Polarization	Vertical
Gain (dBi)	5.5
Sector in E-plane (-3 dB)	40°
Sector in H-plane (-3 dB)	360° (omnidirectional)
Max. transmitting power	10W CW, 500W peak power (10ms)
Connector	N-female
Length (cm)	62
Weight (kg)	Antenna rod: 0.34 kg, with mast clamp 0.87 kg
Material	GRP, Copper, Stainless Steel V4A, POM
Certification	MIL-STD-810G, method 509.5 (48/48h)
Grounding Protection	All metal parts are DC-grounded
Installation Type	Mast: Ø 20-62 mm

### Radiation Pattern in E-Plane and H-Plane



### SWR



(868 MHz equally)



Antenna Socket (37mm)



Mast Clamp