

Datasheet

OPA-5 V4A Offshore Antennas

The jetvision antenna series for offshore and coastal use combines the all features of our standard, well proven antenna program with ruggedness against sea or coastal climate.

- Certified MIL-STD-810G, method 509.5 (48/48h)
- Completely made from V4a 1.4571 (316Ti) material
- Hermetically sealed
- Ability to seal the connector
- Ruggedized mast clamp with single tool mounting

Antenna Subtypes

Type Name	Order Number	1090 MHz	868 MHz FLARM	GNSS
OPA-5-V4A	67306	●		
OPA-5-V4A 868MHz	67055		●	
OPA-5-GPS-V4A	67310	●		●



jetvision Antennas

Sea Water Proof
Offshore Antennas

Product Numbers:

67306 1090 MHz
67310 1090 MHz + GNSS
67055 868 MHz (FLARM)

Usage:

Passive high gain, omni-directional antennas for use off shore or in coastal regions.

Electrical Specification

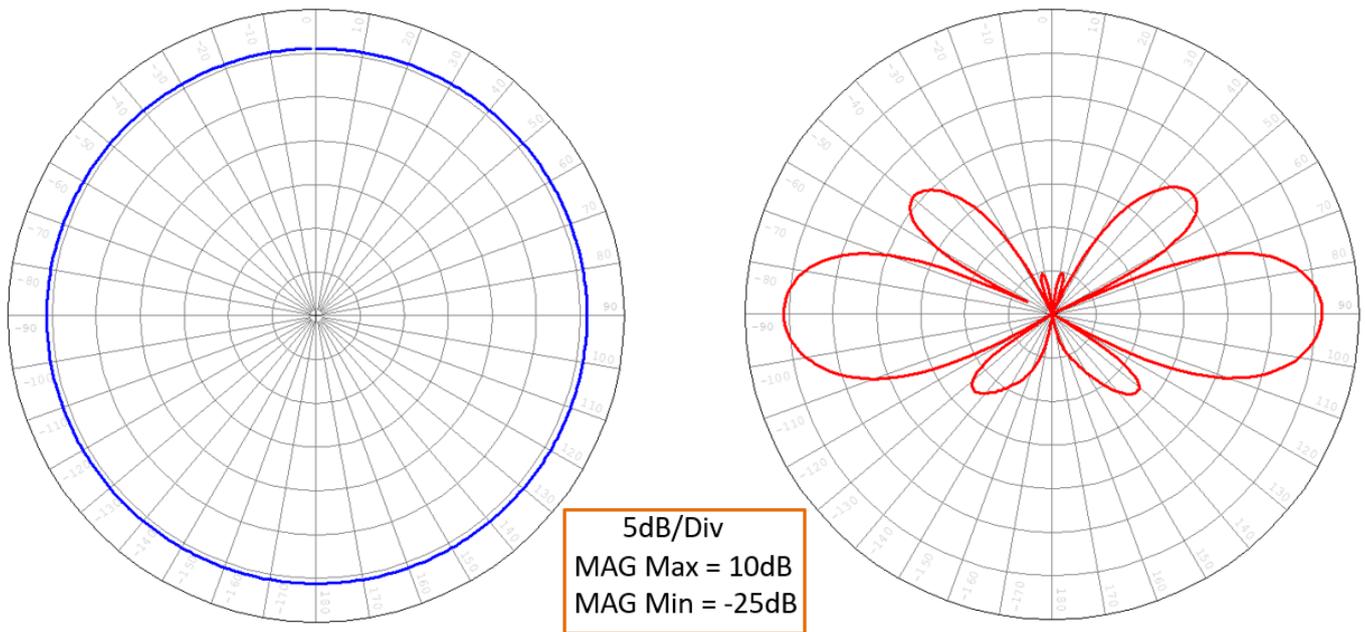
Electrical Data	OPA-5-V4A 67306	OPA-5-V4A 868 MHz 67055	OPA-5-GPS V4A 67310
Type	Collinear Groundplane $3 \times \frac{1}{2}\lambda$		
GNSS	n.a.	n.a.	Dielectric antenna 16 dBi
Design frequency	1090MHz (ADS-B, Mode-S, Mode-A/C)	868 MHz (FLARM)	1090MHz (ADS-B, Mode-S, Mode-A/C)
GNSS frequency	n. a.		1575 MHz
Bandwidth	150 MHz		
Impedance	50 Ω		
VSWR	1.5 (max)		
Radiation (H-plane)	360° omnidirectional		
Radiation (E-plane)	Beamwidth @ -3 dB: 40°		
Polarization	Linear Vertical		
Antenna designed gain	5.5 dBi		
Maximum transmit power	10 W CW 500 W peak		not designed for transmission
Grounding protection	All metal parts are DC-grounded		
Connector	N-female, gold plated central pin		

Mechanical Specification

Mechanical Data	OPA-5-V4A 67306	OPA-5-V4A 868 MHz 67055	OPA-5-GPS V4A 67310
Certification	MIL-STD-810G, method 509.5 (48/48h)		
Fields of application	outdoor, offshore, sea water resistant		
Main materials	V4A (1.4571, 316Ti), Fiberglass, POM		
Wind resistance	25 N at 150 km/h		
Antenna tube diameter	26 mm		
Antenna length	620 mm	730 mm	620 mm
Antenna socket diameter	37 mm		
Antenna weight	340 g	375 g	360 g
Mast clamp weight	525 g		
Mounting direction	any		
Total weight	865 g	900 g	885 g
Mast Diameter	20 mm (min) – 62 mm (max)		

	Notes:	
	Title: Sea Water Proof Antennas	Article No: 67306, 67055, 67310
	Author: Günter Köllner	

Radiation Pattern in E-Plane and H-Plane

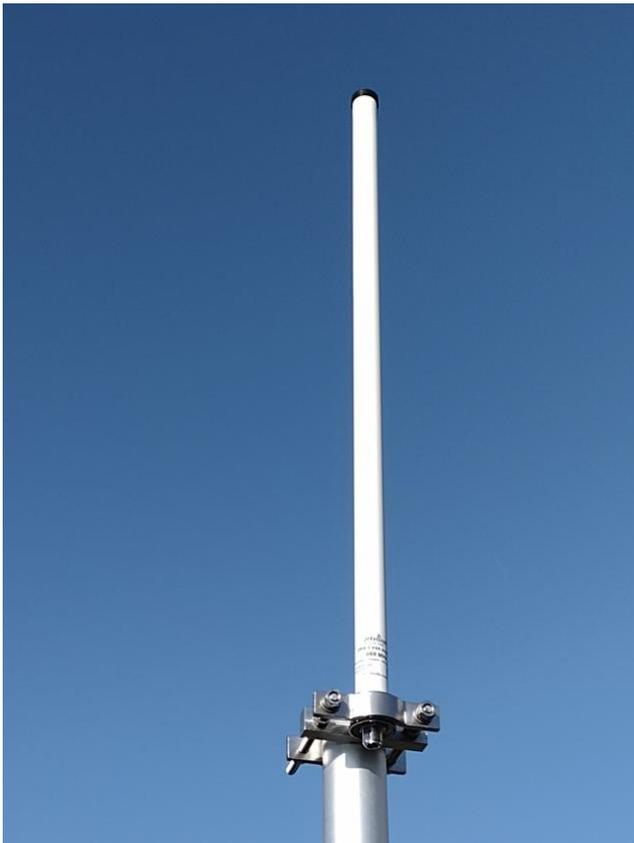


SWR



(868 MHz equally)

	Notes:	
Title: Sea Water Proof Antennas	Article No: 67306, 67055, 67310	Version: 1.0 2023-06-01
	Author: Günter Köllner	© Copyright 2023



Antenna



Mast Clamp (mounted)



Antenna Socket (37mm)



Mast Clamp

	Notes:	
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	Author: Günter Köllner	© Copyright 2023



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History of changes

Version	Date	Name	Description
1.0	2023-06-01	G. Köllner	Creation