



### NA-S[X]-[GPS]

Marine grade materials

Various UHF frequencies available

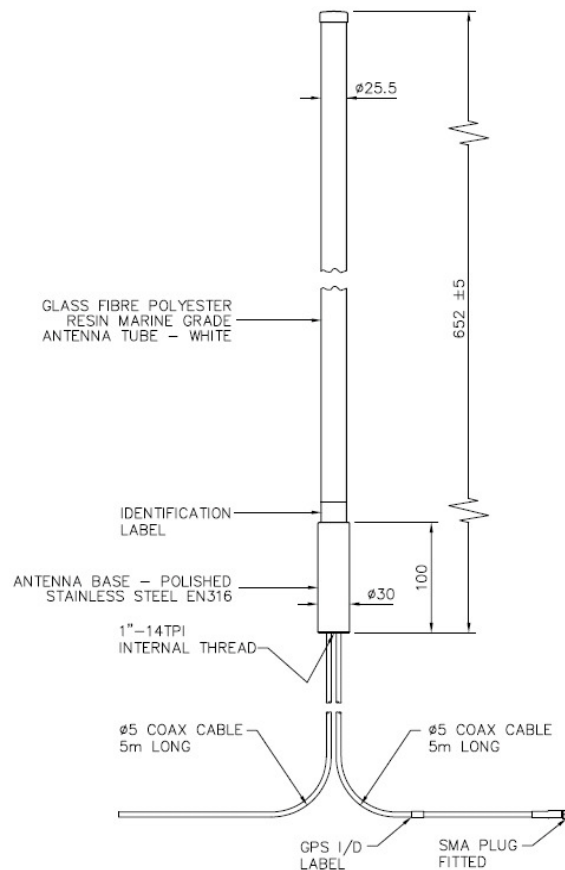
Optional GPS

Panorama has developed a range of UHF marine antennas to meet the increasing demand for critical communications coverage in marine environments.

The NA range can be supplied as a GPS/UHF combination product with 25dB gain offering a simple and quick combined installation for the customer.

The NA antenna range will mount to standard 1"x14TPI marine mounting systems - Panorama offers an adjustable stainless steel ratchet mount to this specification (part number NDRS-SL). Panorama can also supply custom extension coaxial cable sets to meet the customer's specific installation requirements

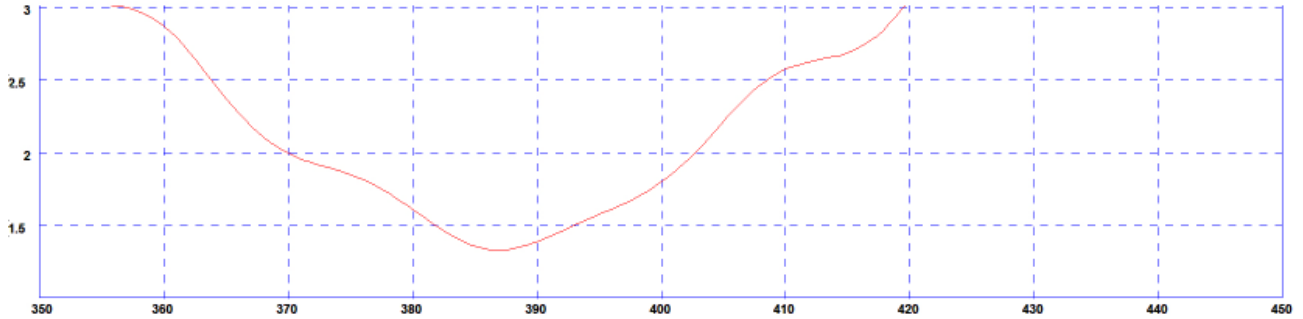
### Technical Drawing



Part No.			
	NA-S1-[GPS]	NA-S2-[GPS]	NA-S4-[GPS]
<b>Electrical Data</b>			
Frequency Range (MHz)	380-400	410-430	450-470
Operational Band	S1	S2	S4
Peak Gain: Isotropic		5dBi	
Typical VSWR		< 2:1	
Polarisation		Vertical	
Pattern		Omni-directional	
Impedance		50Ω	
Max Input Power (W)		25	
<b>Mechanical Data</b>			
Dimensions (mm)	Length	652 (25.6")	
	Diameter	30 (1.18")	
Operating Temp (°C)	-40° / +80°C (-40° / +176°F)		
Material	Fibreglass & stainless steel		
Colour	White		
<b>GPS Data (GPS Versions Only)</b>			
Frequency Range (MHz)	1575		
VSWR	<2.0:1 ± 4MHz		
Peak Gain	25dBi		
Polarisation	Right Hand Circular		
Operating Voltage	3 - 5V DC (fed via coax)		
Current	Typical 15mA		
<b>Cable Data</b>			
Type	TETRA	CS23 (RG58 c/u)	
	[GPS]	CS23 (RG58 c/u)	
Diameter (mm)	TETRA	5 (0.2")	
	[GPS]	5 (0.2")	
Length (m)	TETRA	5 (17')	
	[GPS]	5 (17')	
Termination	TETRA	Bare end	
	[GPS]	SMA plug	

VSWR

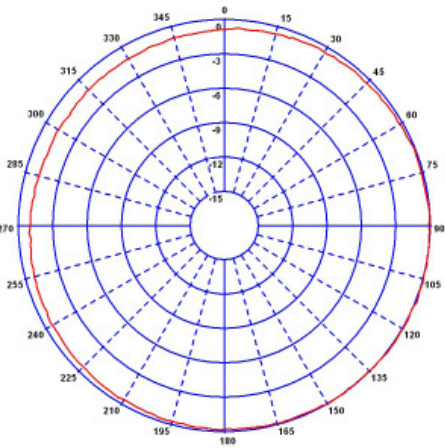
Typical VSWR\*



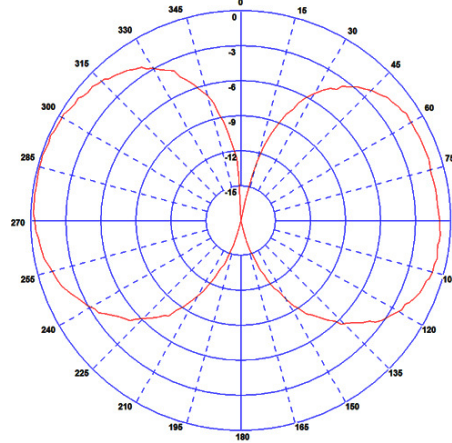
\* VSWR Shown is NA-S1 measured with 5m (17') cable in free space.

Polar Patterns

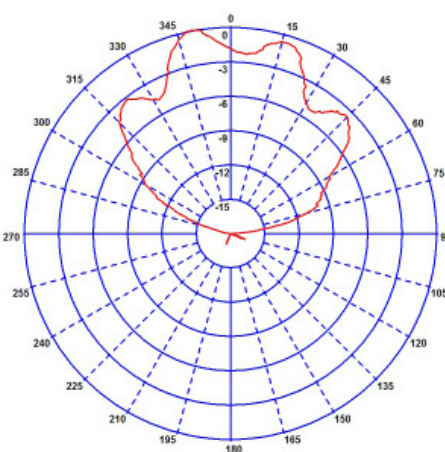
Typical H-Plane (390MHz)



Typical E-Plane (390MHz)



Typical E-Plane (GPS)



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Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

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