

# High-Power Maritime Omni Directional Antenna

960 – 1215 MHz

Product Code: OMNI-A0376

VERSION: 1.1



## PRODUCT DESCRIPTION:

The OMNI-A0376 is a High-Power Omni Directional transmit / receive antenna with excellent performance over the entire link 16 band, 960 – 1215 MHz.

The antenna offers very low azimuth ripple of below 1.5 dB and its split radome design offers wrap around mast mounting. It is designed to meet environmental specifications suitable for naval applications.

## PRODUCT FEATURES:

- High power handling
- Wrap around mast mount
- Transmit / Receive antenna
- Low RCS

## APPLICATIONS:

- Communications
- Monitoring
- Naval

## SPECIFICATIONS:

<b>Electrical:</b>	
Frequency range	960 – 1215 MHz
VSWR	< 2.1:1
Gain	> 4.5 dBi (typical)
Azimuth ripple	± 1.5 dB
Polarisation	Vertical
Nominal input impedance	50 Ω
Connectors	1 x N-type female
Power	1kW peak for a 36% duty cycle
<b>Mechanical:</b>	
Dimensions (±10%):	
Upper diameter:	900 mm
Lower diameter:	1100 mm
Height:	550 mm
Total mass:	< 65 kg
Mounting method	Wrap around mast mount
<b>Environmental: designed to meet the following specifications</b>	
<b>MIL-STD-810G Change 1</b>	<b>Method / specification</b>
Temperature range	501.6 procedure I and II, 502.6 procedure I and II. Storage: -25 °C to +71 °C Operation: -25 °C to +60 °C
Rain	506.6 procedure I 30 mm/h rainfall with a 35-knot wind
Humidity	507.6 +30 °C to +60 °C, RH = 90%
Salt fog	509.6
Solar radiation	505.6 procedure II
Sand and dust	510.6 procedure I and II
Fungus	508.7
Vibration	528.1 1mm over frequency 4 – 14 Hz 0.8g over frequency 14-100 Hz
Shock	516.7 Vertical: 50g and 6ms half-sine pulse Horizontal: 30g and 11ms half-sine pulse
<b>Other</b>	
Ingress protection	IP 65
Wind survival	140 km/h with gusts of 190 km/h

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