

# SPECIFICATION

**Part No.:** OD015

**Product Name:** Multi-Band Omni-Directional Marine Outdoor Antenna.

***Works with GSM / CDMA / PCS / DCS / UMTS/ WCDMA / LTE***

**Features:** Excellent Radiation Patterns  
Lightweight  
All Weather Operation  
Installed for Vertical Operation  
**RoHS Compliant**

**Photo:**



## **REVISION STATUS:**

Version	Date	Page	Revision Description	Prepared	Approved
01	Mar 4th 2011	All	New Product Release	Airgoon Products Groups	C. Clements
02	Apr 4th 2011	All	Return Loss Added	Airgoon Products Groups	C. Clements
03	May 4th 2011	All	Housing Modification	Airgoon Products Groups	C. Clements

## 1.0 Introduction:

The **OD015 Multi-Band Marine Antenna** is professionally designed with the highest industrial quality. The antenna base is aluminum and resists rust. The products have good water resistance. Great care has been taken in the manufacture and assembly of the internal copper elements so they can bear a high input power.

## 2.0 Antenna Performance:

Frequency Band	700 MHz - 2500 MHz
Bandwidth	96 MHz. (Cellular) / 140 MHz. (PCS)
Gain	15 dBi
Impedance	50 Ohm
Polarization	Vertical
Max Power Handling	50W
VSWR	1.5:1 (Cellular) / 2.0:1 (PCS)
Vertical Beamwidth	15°
Horizontal Beamwidth	360°

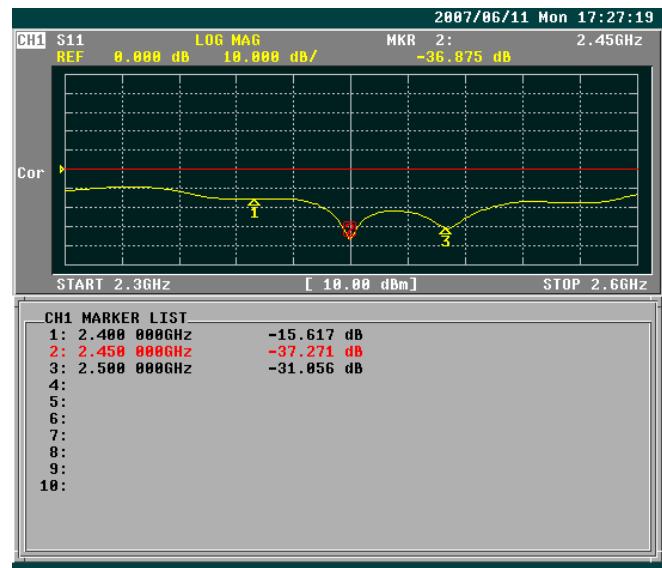
## 3.0 Mechanical Specifications:

Connector	1 x TNC Type Female
Connector Location	Bottom
Dimensions (L*W*D)	Length 450mm, Width 203mm, Diameter 64mm
Radome Diameter	N/A
Weight (& Mounting Bracket max)	320g
Antenna Heart	Brass Brass stack
Radome Material	White Fiberglass
Mounting Options	U-Bolt(Stainless steel)

## 4.0 Environmental Ratings:

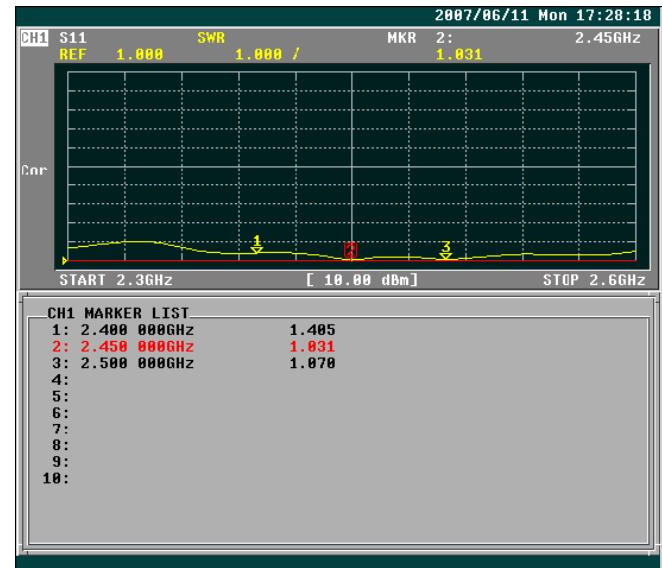
Lightening Protection	None
Temperature	-40°C to +80°C
Wind Survival	>150mph

## 5.0 Return Loss:



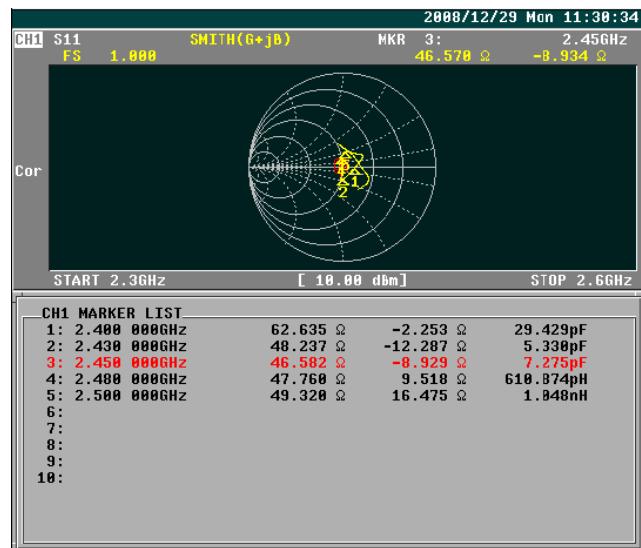
*Test Data Taken at 2.45GHz.*

## 6.0 VSWR:



*Test Data Taken at 2.45GHz.*

## 7.0 Smith Chart:

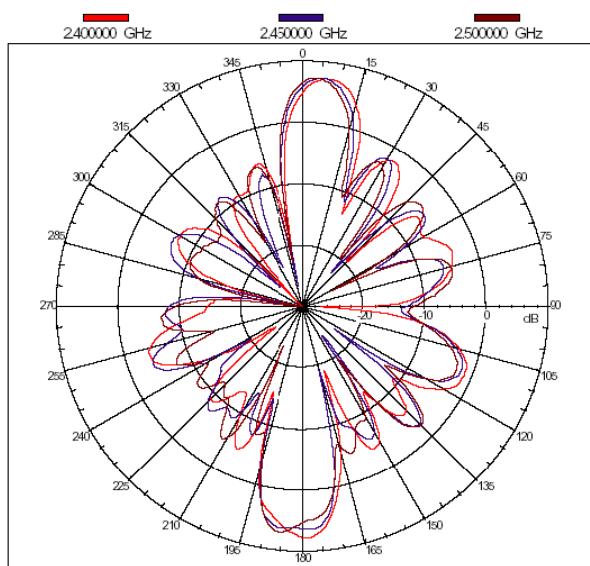


*Test Data Taken at 2.45GHz.*

## 8.0 Radiation Patterns:

Vertical

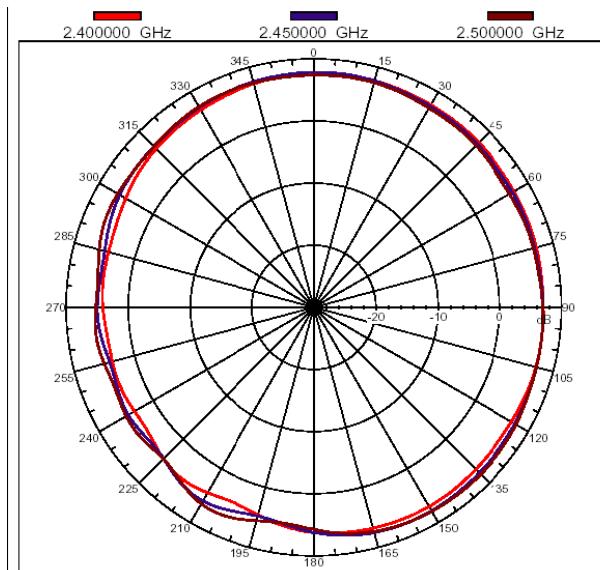
E-plane co-pol ----- 3-dB beam-with=15 Deg



*Test Data Taken at 2.45GHz.*

## Horizontal

E-plane co-pol ----- 3-dB beam-with=360 Deg



*Test Data Taken at 2.45GHz.*