

Barracuda

Part No: OMB.433.B06F21

Description:

Barracuda - 433MHz 6dBi Omni Directional Outdoor Antenna with N Type Female Connector

Features:

Omni-Directional Radiation Pattern Collinear 6dBi Peak gain, 433 MHz Fiberglass Housing Robust design for all weather operation IP65 waterproof Length: 1473mm | Weight: 1300g N type Female connector Mounting bracket included RoHS & Reach Compliant

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1. Introduction



The OMB.433.B06F21 is a 6dBi fiberglass omni-directional outdoor antenna, operating in 433 MHz ISM band. The antenna is designed for applications such as metering, industrial/environmental monitoring, remote asset monitoring and mesh network applications.

The OMB.433 operates at 433MHz, one of the most widely used license free ISM bands, with a 6dBi peak gain. The omni-directional antenna radiates uniformly in the azimuth providing coverage over long distances. Coupled with a very low VSWR, this characteristic provides the best performance because the antenna gives maximum coverage range in the horizontal plane over 360 degrees, thus minimizing the amount of nodes needed for a mesh network.

The UV resistant fiberglass housing enables the OMB antenna to be utilized in all kinds of harsh environments, making it more robust and safer than traditional whip antennas. It can be connected directly to the access point or telemetry unit, or can be mounted on wall or device surface via the N-type connector.

A smaller model, OMB.433.B03F21, with 3dBi peak gain, is also available.



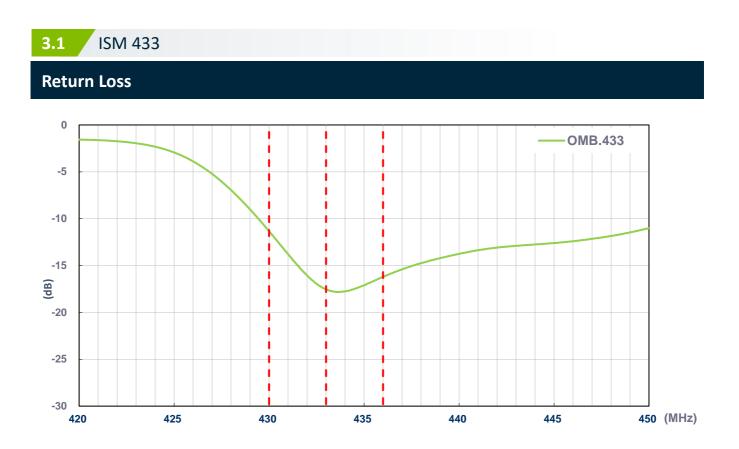
2. Specifications

	Electrical
Frequency (MHz)	433
Antenna Type	Collinear Dipole Array
Peak Gain	6 dBi
Polarization	Vertical
Impedance	50 ohms
Max Input Power	100 watts
VSWR	1.5:1
Radiation	Omni-Directional
Vertical Beamwidth	13 Deg
Horizontal Beamwidth	360 Deg
Internal Material	Copper
Connector	N Type Female
	Mechanical
Length	1473 mm(Max)
Radome Diameter	24mm
Bracket Dimension	70 x 73mm(Max)
Antenna Weight	1040g
Mounting Accessories Weight	70g
Application	Indoor/Outdoor
Radome Material	White Fiberglass
Bracket Material	Aluminum
Mount Style	Pole Mount/Wall Mount
Mount Hardware Material	Stainless Steel
Wind Resistance	>150mph (>241km/h)
Waterproof	IP65

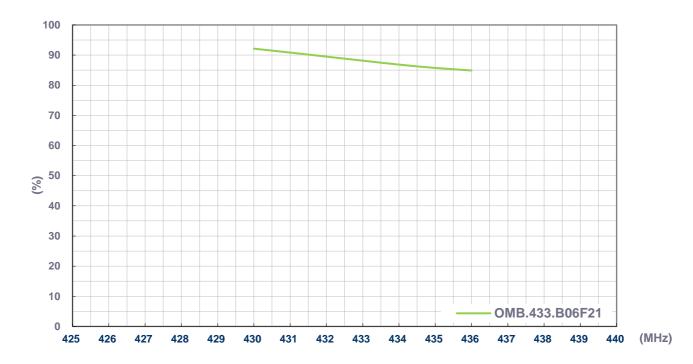
Environmental				
Storage Temperature	-40°C to +85°C			
Operating Temperature	-40°C to +85°C			
Operating Humidity	10%~90% non-condensing			
Storage Humidity	5%~90% non-condensing			



Antenna Characteristics



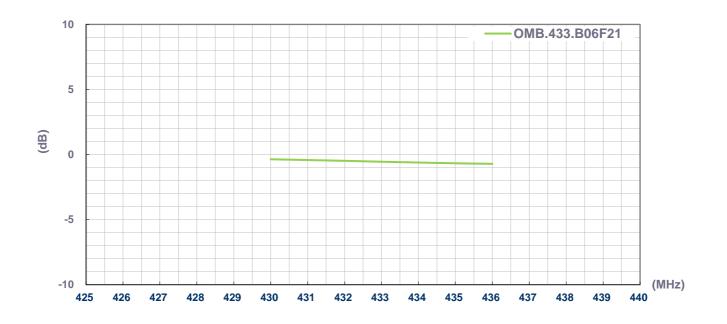
Efficiency



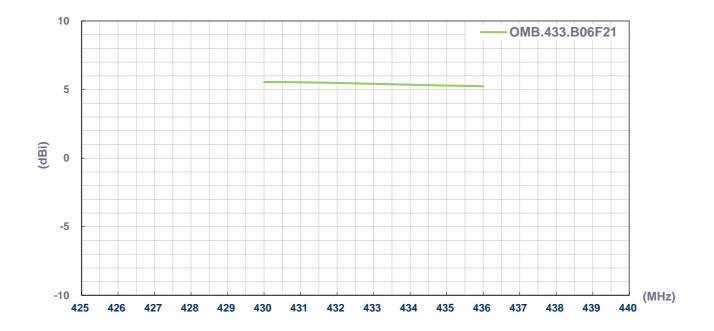
3.



Average Gain



Peak Gain

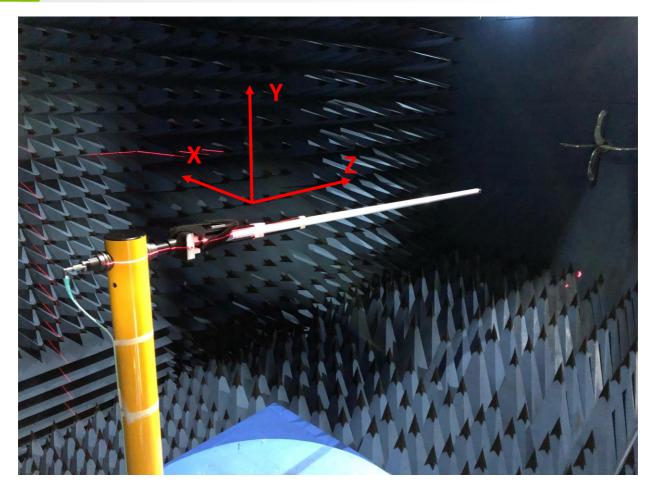




Radiation Patterns

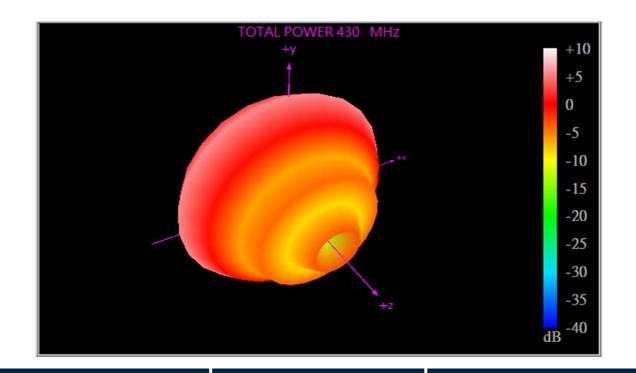


4.





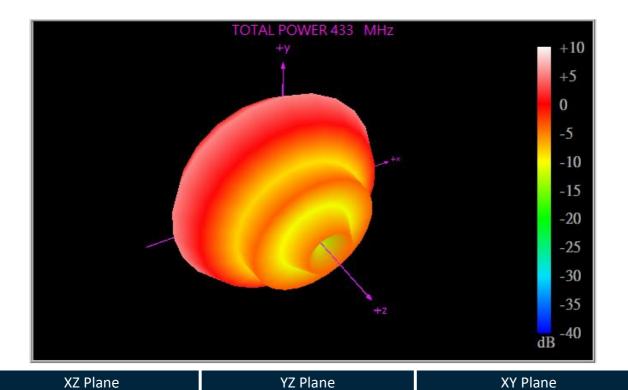
4.2 430MHz 3D and 2D Radiation Patterns







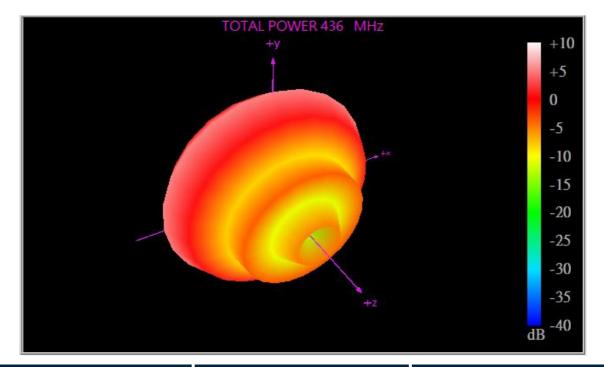
4.3 433 MHz 3D and 2D Radiation Patterns



Z 0 **Z** 0 Х -10 -10 -20 -20 -20 -30 -30) -30 90 X -40 **Y** -40 Y 433MHz -433MHz 433MHz (dBi) (dBi) (dBi)



4.4 436 MHz 3D and 2D Radiation Patterns



XZ Plane YZ Plane XY Plane

30

150

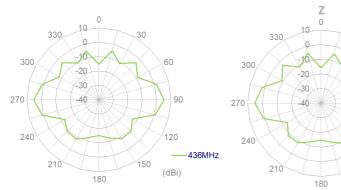
60

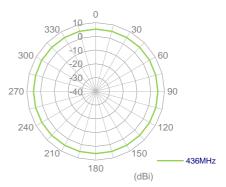
120

(dBi)

90 **Y**

436MHz

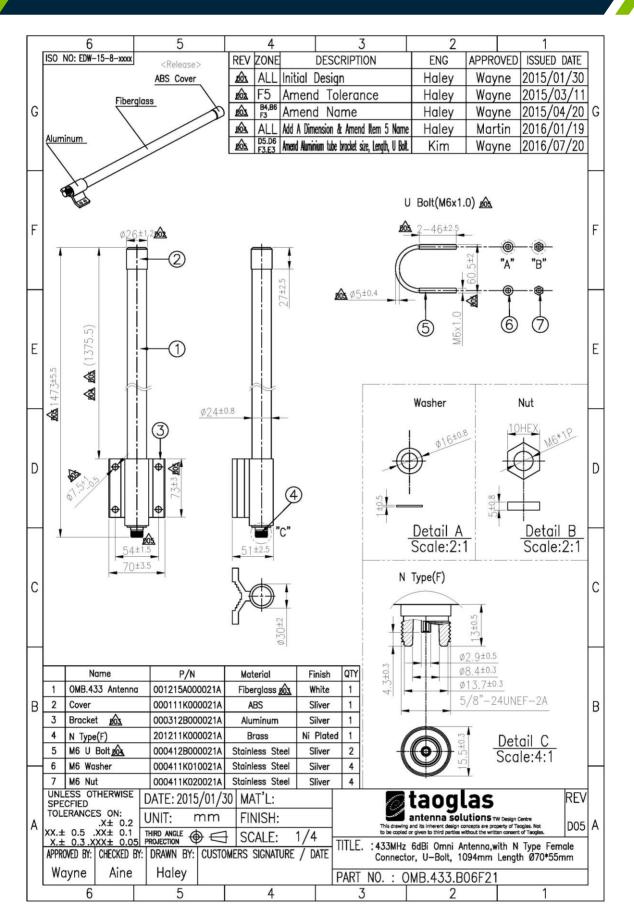






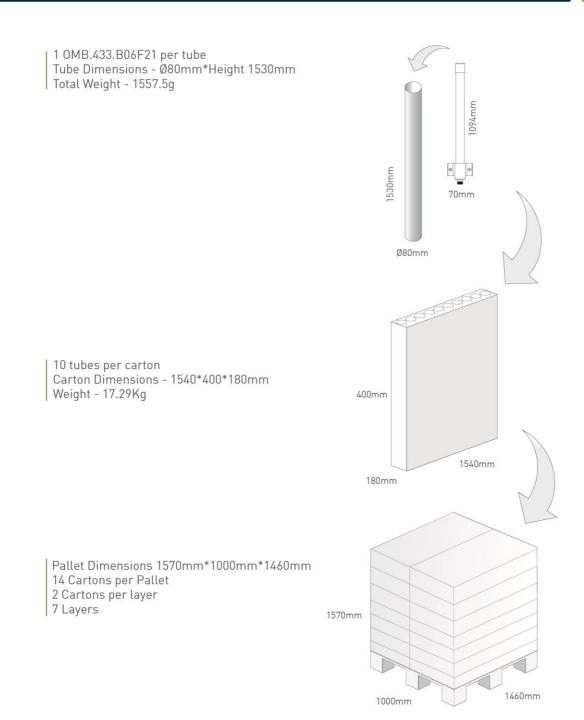
Mechanical Drawing (Units: mm)

5.



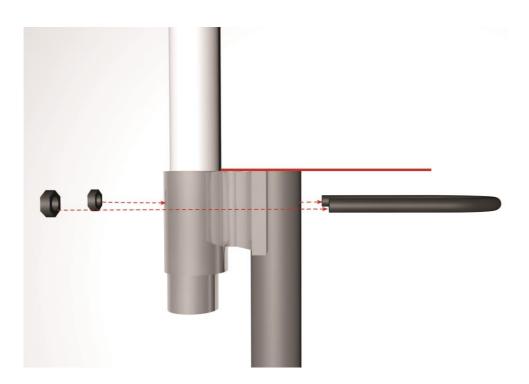


6. Packaging





7. Antenna Installation Guide





Changelog for the datasheet

SPE-16-8-020 - OMB.433.B06F21

Revision: E (Current Version)					
Date:	2019-08-29				
Notes:	Updated template, added Return Loss, Efficiency, Average Gain				
Author:	Yu Kai Yeung				

Previous Revisions



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