

## SPECIFICATION

Part No.	: <b>OMB.915.B03F21</b>
Description	: Barracuda - 915MHz 3dBi ISM Band Indoor/Outdoor Omnidirectional Antenna
Features	: Omni-Directional Radiation Pattern Collinear 3.5 dBi Peak Gain Efficiency > 61% Robust Design for all Weather operation IP65 Waterproof Length: 320mm, Weight: 350g Connector: N-type Female Wall/Pole Mount Bracket Included RoHS compliant





## 1. Introduction

The OMB.915.B03F21 is a fiberglass omnidirectional outdoor antenna, operating in the 902-915MHz ISM band, is designed to offer long distance coverage. The antenna is designed for applications such as metering, industrial / environmental monitoring, remote asset monitoring, and mesh network applications.

The OMB.915 operates at 915MHz, one of the most widely used license free ISM bands, with a 3.5dBi peak gain. The omnidirectional antenna radiates uniformly in the azimuth. This collinear design characteristic provides the best performance, giving optimized coverage and therefore longer range in the horizontal plane over 360 degrees, thus minimizing the amount of nodes needed for a mesh network.

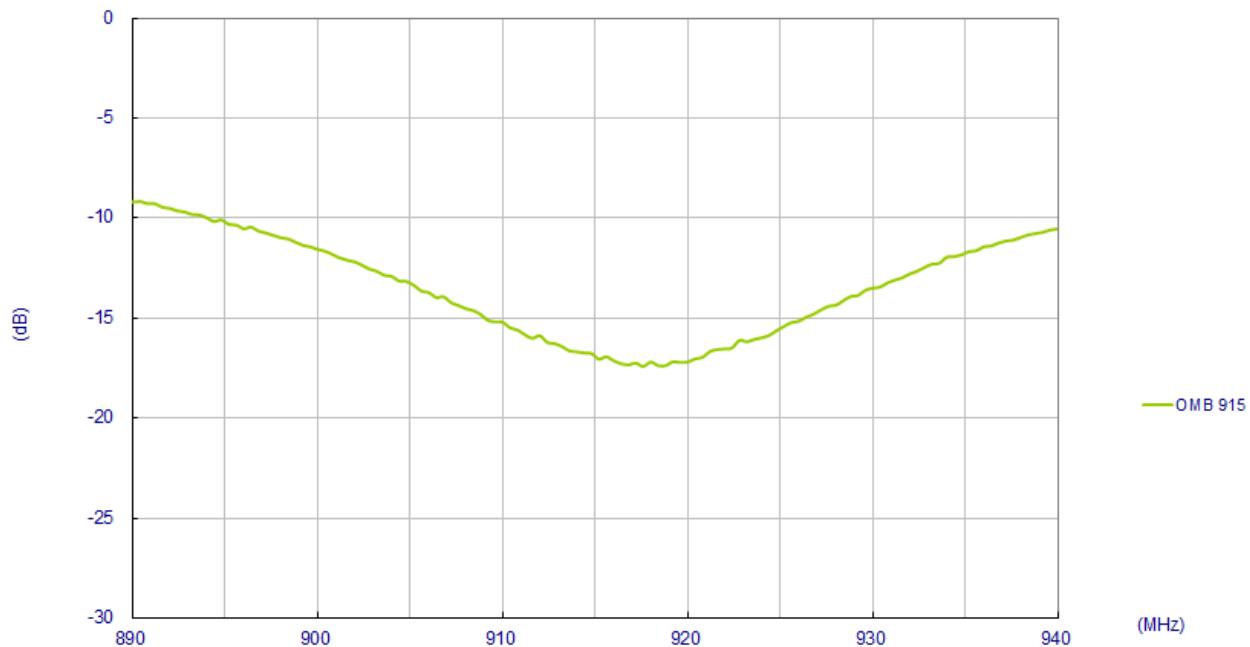
The UV resistant fiberglass housing enables the OMB antenna to be utilized in all kinds of harsh environments, making it more robust and safer than traditional whip antennas. It can be connected directly to the access point or telemetry unit, or can be mounted on wall or device surface via the N-type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

## 2. Specification

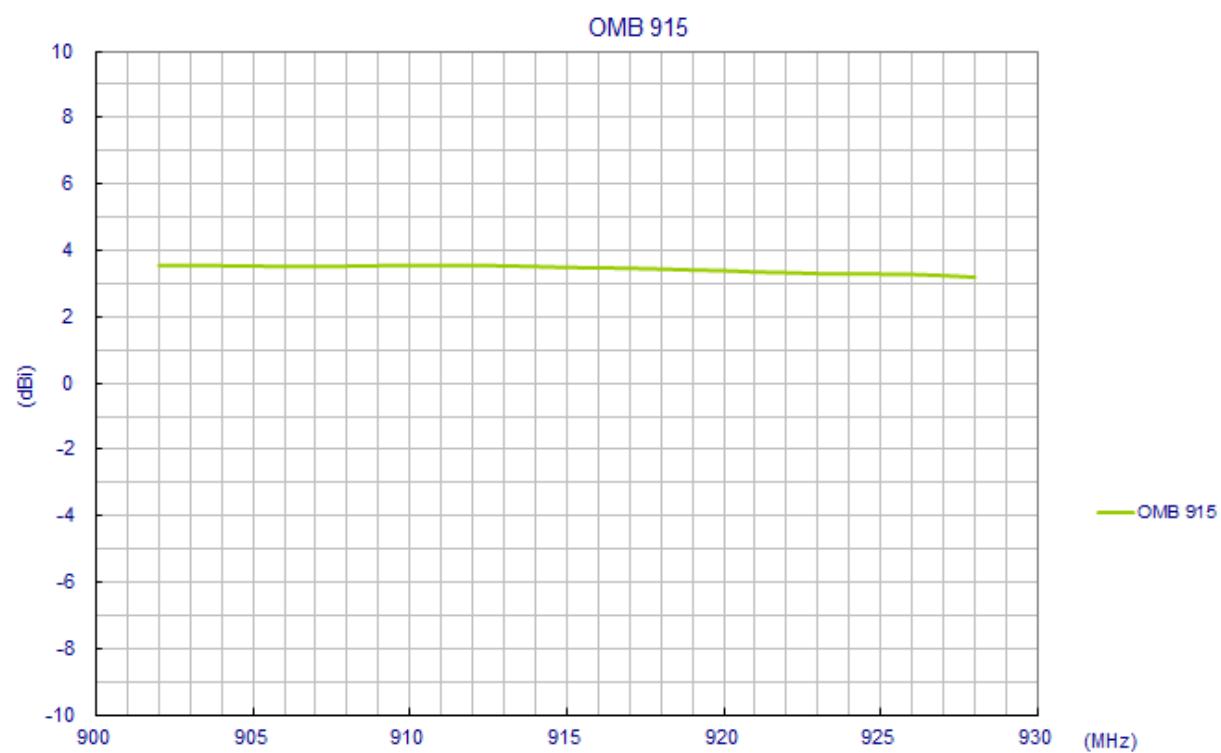
ELECTRICAL	
Standard	ISM 915
Band	902~928MHz
Antenna Type	Collinear
Gain(max)	3.5dBi
Polarization	Vertical
Impedance	50 ohms
Max Input Power	50 watts
VSWR	<1.5:1
Radiation	Omnidirectional
Vertical Bandwidth	78 Deg
Horizontal Bandwidth	360 Deg
Antenna Design	Dipole Array
Internal Material	Copper
Connector	N Type Female
MECHANICAL	
Length	320mm(Max)
Bracket Dimension	70*35mm(Max)
Radome Diameter	24mm
Antenna Weight	280g
Mounting Accessories	70g
Application	Indoor/Outdoor
Radome Material	White Fiberglass
Mount Style	Pole Mount/Wall Mount
Mounting	Stainless Steel
Wind Resistance	>150mph (>241km/h)
Waterproof	IP65
ENVIRONMENTAL	
Storage Temperature	-40°C to +80°C
Operating Temperature	-40°C to +60°C
Operating Humidity	10%~90% non-condensing
Storage Humidity	5%~90% non-condensing

## 3. Antenna Characteristics

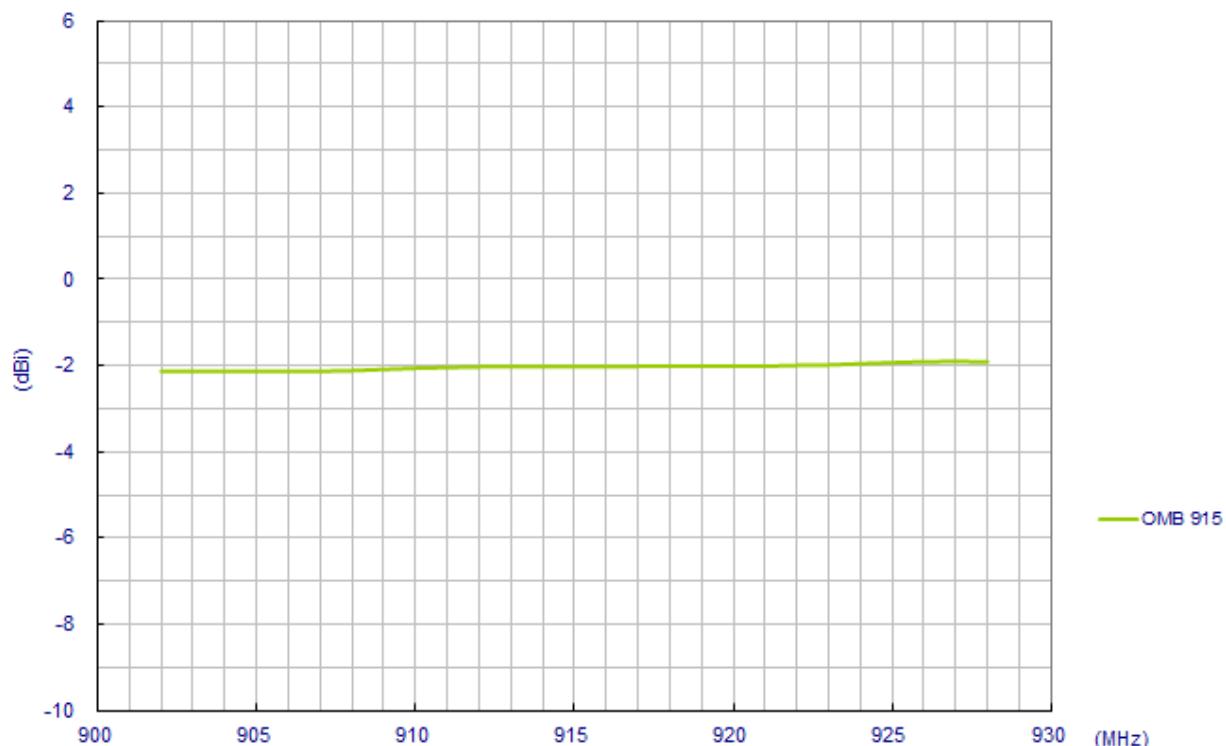
### 3.1 Return Loss



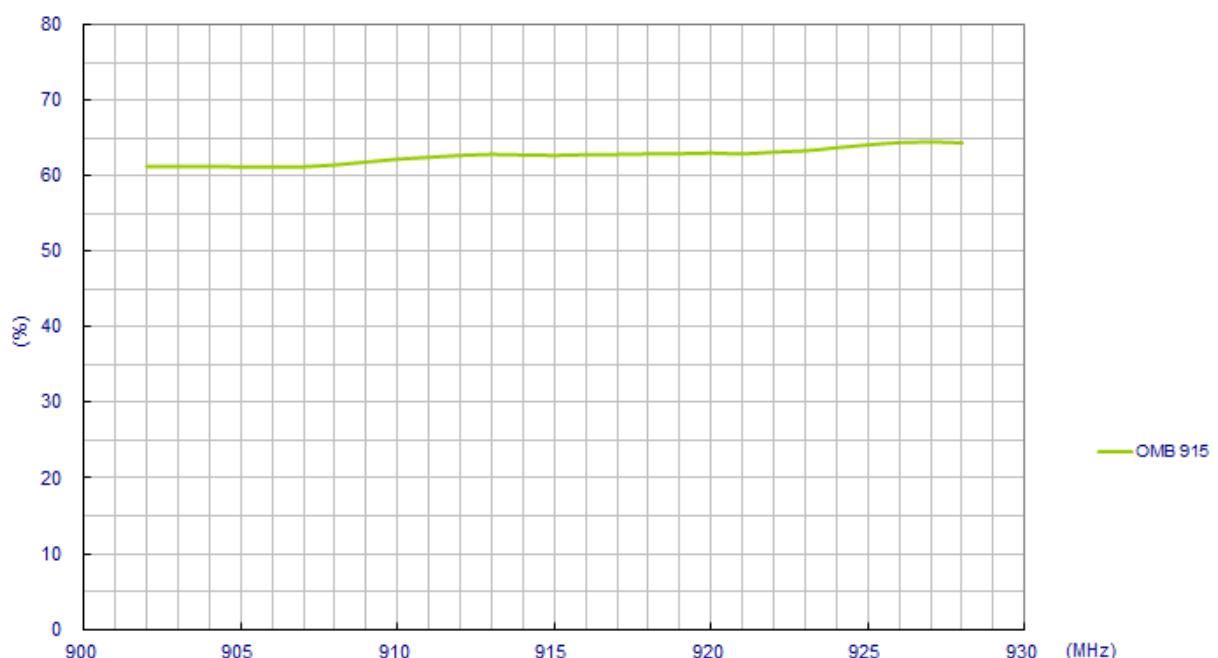
### 3.2 Maximum Gain



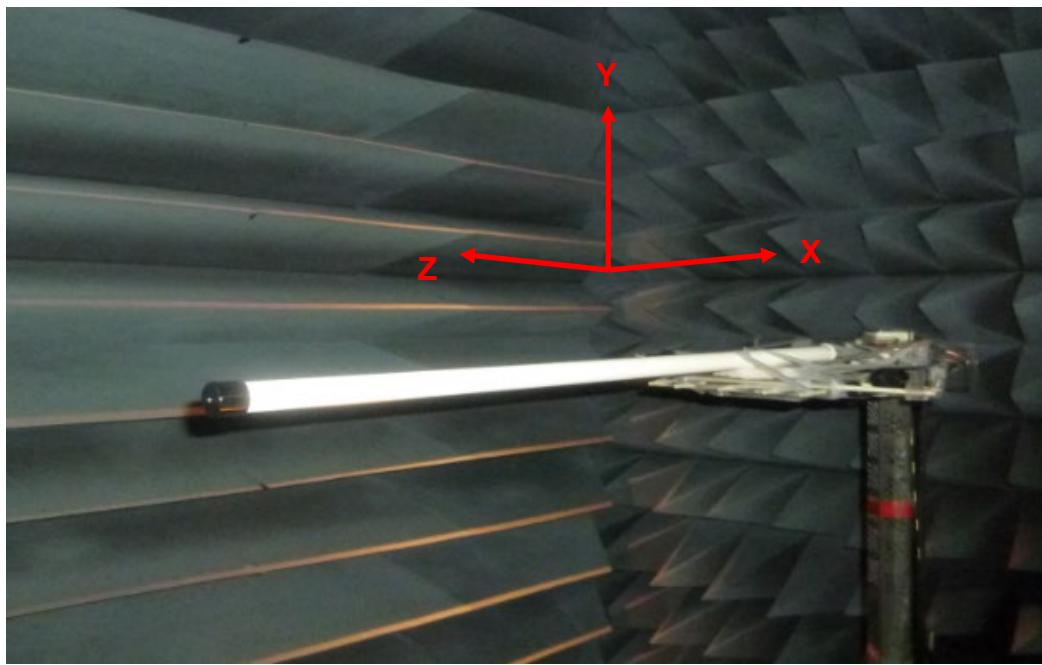
### 3.3 Average Gain



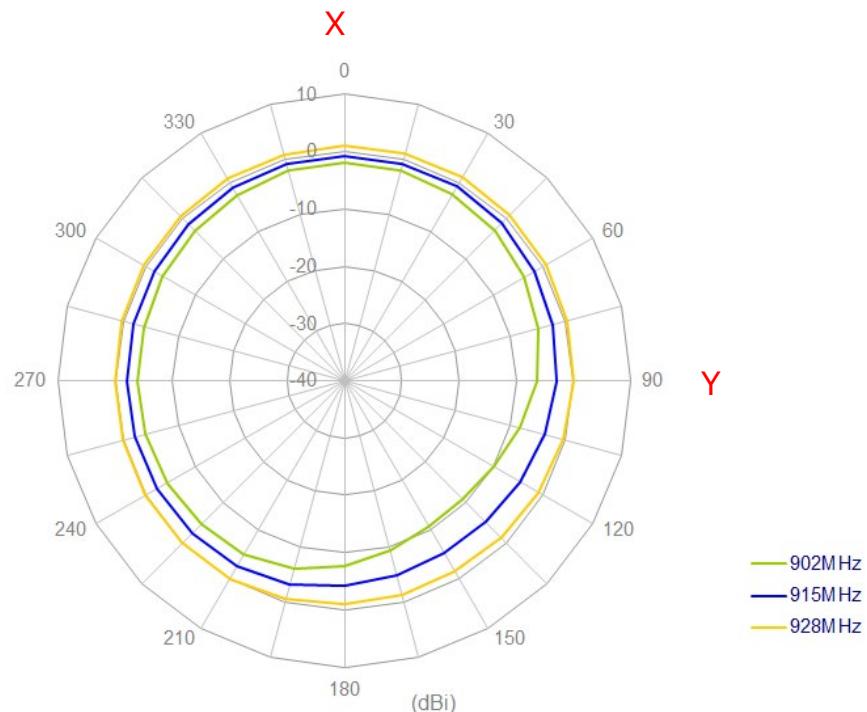
### 3.4 Efficiency



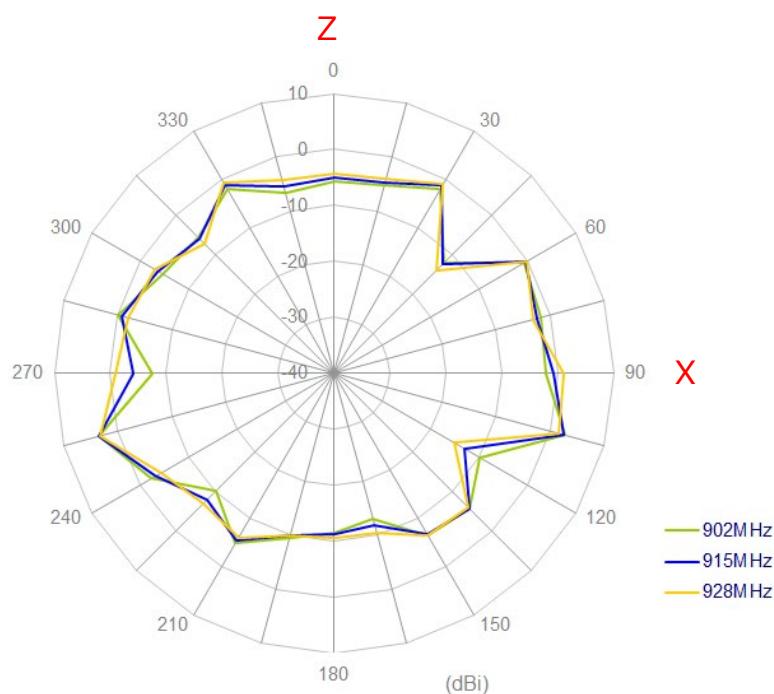
## 4. 3D Radiation Property



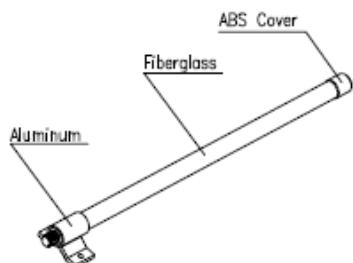
## XY Plane



## XZ Plane



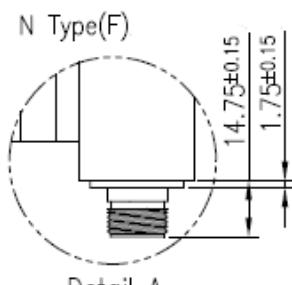
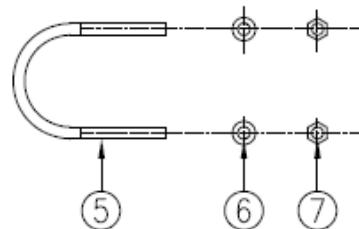
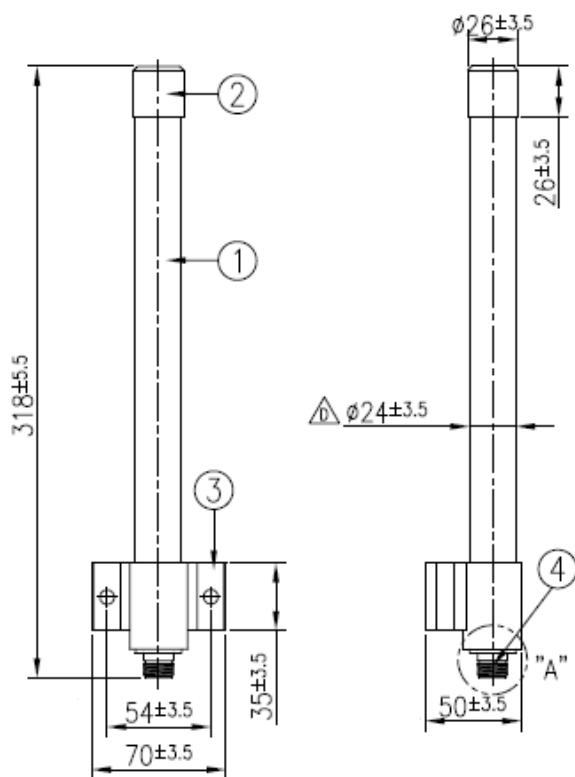
## 5. Drawing



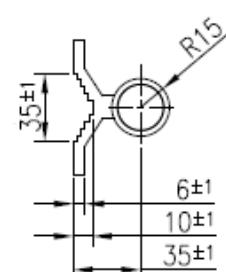
Top View

Side View

U-Bolt



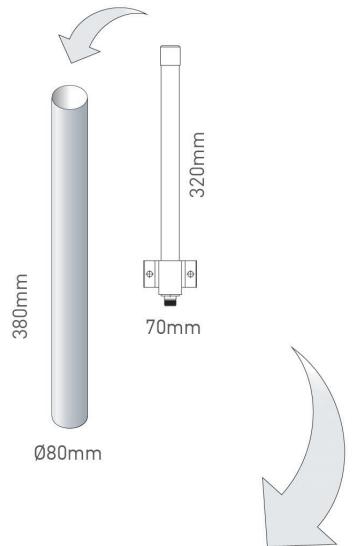
Detail A  
Scale:4:1



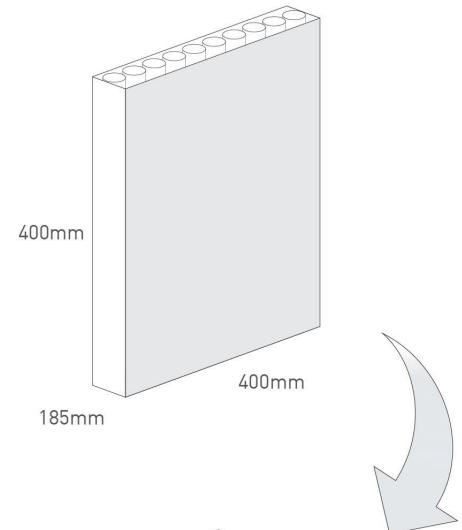
	Name	P/N	Material	Finish	QTY
1	OMB.915 Antenna	001212B020021A	Glass Fiber	White	1
2	Cover	000111K000021A	ABS	Silver	1
3	Bracket	000311K000021A	Aluminum	Silver	1
4	N Type(F)	201211K000021A	Brass	Ni Plated	1
5	M6 U Bolt	000412B000021A	Stainless Steel	Silver	1
6	M6 Washer	000411K010021A	Stainless Steel	Silver	2
7	M6 Nut	000411K020021A	Stainless Steel	Silver	2

## 6. Packaging

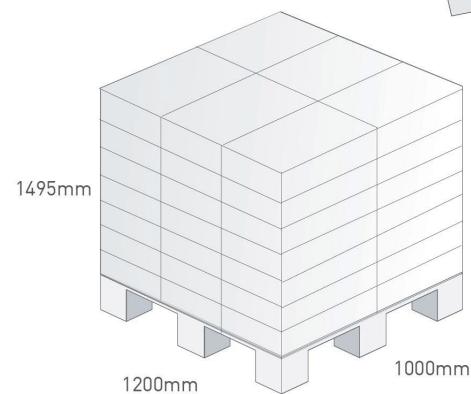
1 OMB.915.B03F21 per tube  
 Tube Dimensions - Ø80mm\*Height 380mm  
 Total Weight - 443g



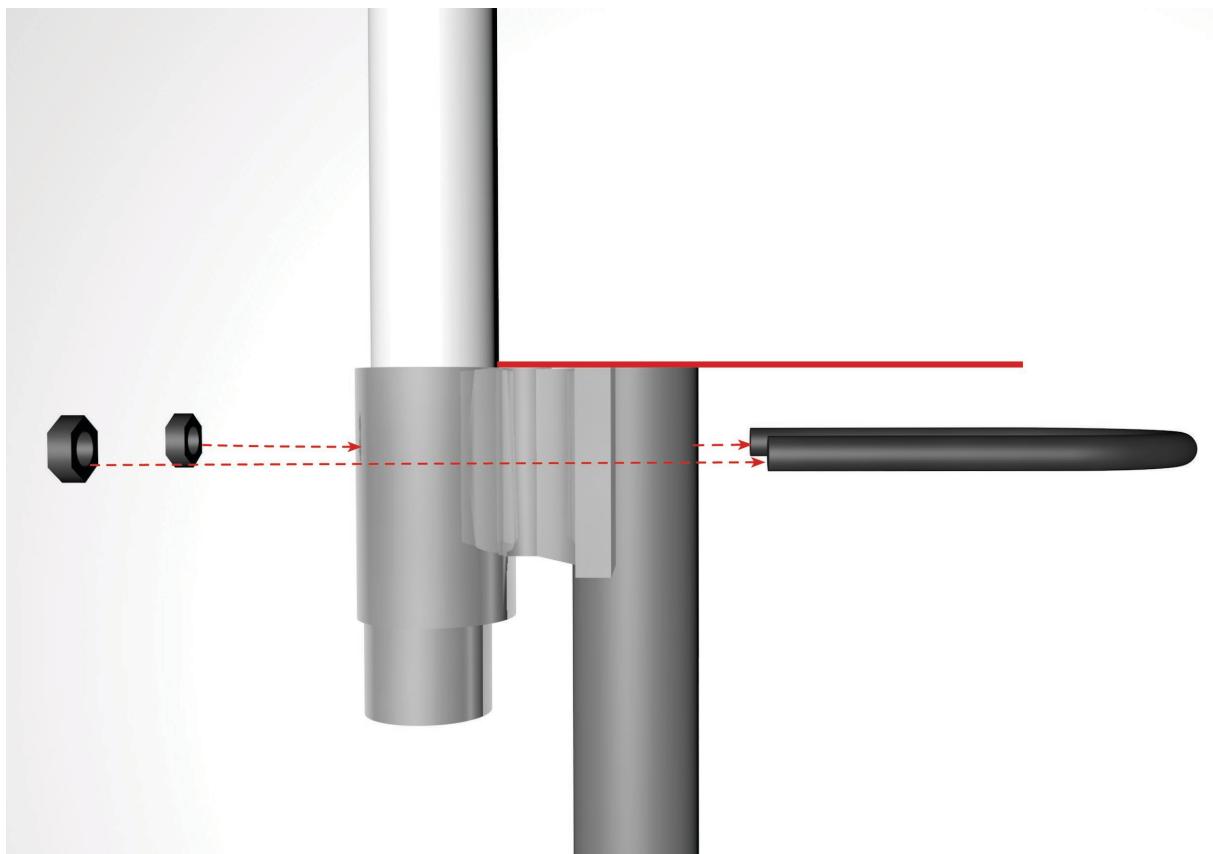
10 tubes per carton  
 Carton Dimensions - 400\*400\*185mm  
 Weight - 519Kg



Pallet Dimensions 1200mm\*1000mm\*1495mm  
 42 Cartons per Pallet  
 6 Cartons per layer  
 7 Layers



## 7. Antenna Installation Guide





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