

# SPECIFICATION

Part No.	<b>OMB.8912.03F21</b>
Description	Barracuda - 3 dBi Penta-band Cellular Indoor/Outdoor Omni-Directional Antenna
Feature	GSM850/ GSM900/ DCS/ PCS/ WCDMA I 850/ 900/ 1800/ 1900/ 2100 MHz Omni-Directional Radiation Pattern Collinear 4.89 dBi Peak Gain Robust Design for all Weather operation IP65 Waterproof Length: 298mm, Weight: 350g Connector: N-type Female Wall/Pole Mount Bracket Included

**RoHS compliant**



## 1. Introduction

The Penta-band cellular Barracuda Outdoor antenna is designed to have long distance coverage. Omni-directional high gain across all bands ensures constant reception and transmission. The UV resistant coating with fiberglass housing makes this antenna suitable to be mounted in robust outdoor environment, pole-mounting and wall-mounting bracket is included. The antenna finds its usage in boosting cellular coverage in remote areas or difficult environments indoors and outdoors.

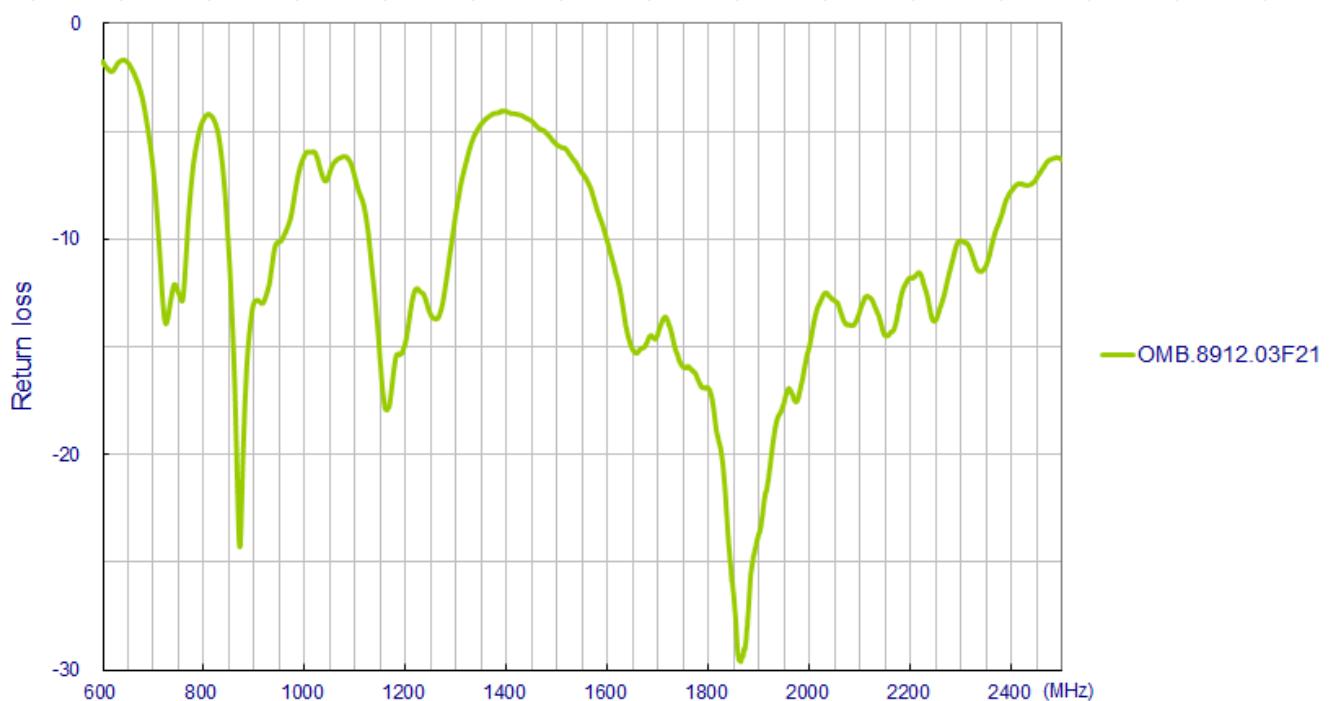
## 2. Specification

ELECTRICAL					
Standard	GSM	GSM	DCS	PCS	WCDMA I
Band	850	900	1800	1900	2100
Frequency (MHz)	824~894	880~960	1710~1880	1850~1990	1920~2170
Peak Gain (dBi)	1.55	2.13	4.47	4.49	4.89
Average Gain (dBi)	1.18	1.78	3.87	4.24	4.08
Efficiency (%)	63.4	75.7	81.2	88.8	87.3
Antenna Type	Collinear				
Polarization	Vertical				
Impedance	50 ohms				
Max Input Power	50 watts				
VSWR	<2.0:1				
Radiation	Omni-Directional				
Vertical Bandwidth	65 Deg				
Horizontal Bandwidth	360 Deg				
Antenna Design	Dipole Array				
Internal Material	Copper				
Connector	N Type Female				
MECHANICAL					
Length	298 mm				
Bracket Dimension	70*35mm(Max)				
Antenna Weight	350g				
Mounting Accessories	70g				
Application	Indoor/Outdoor				
Radome Material	White Fiberglass				
Mount Style	Pole Mount/Wall Mount				
Mounting	Stainless Steel				
Wind Resistance	>150mph (>241km/h)				

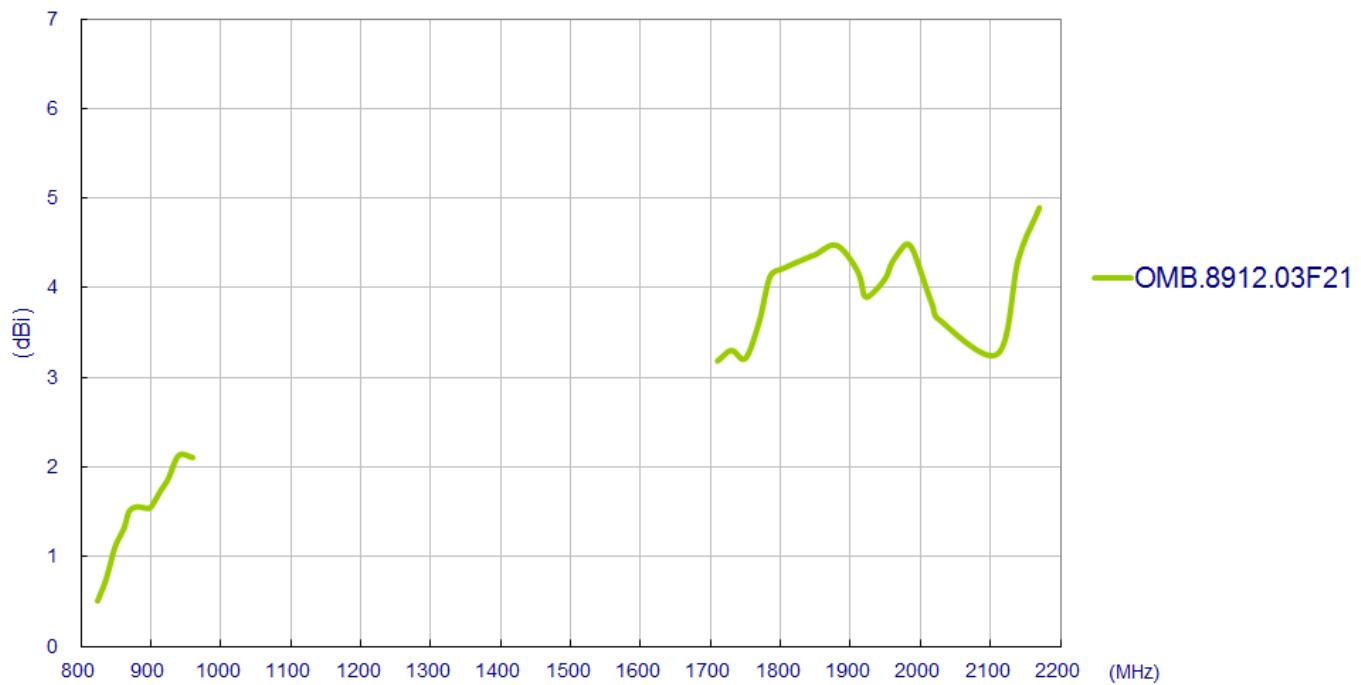
ENVIRONMENTAL	
Storage Temperature	-40°C to +80°C
Operating Temperature	-40°C to +60°C
Operating Humidity	10%~80% non-condensing
Storage Humidity	5%~80% non-condensing

## 3. Antenna Characteristics

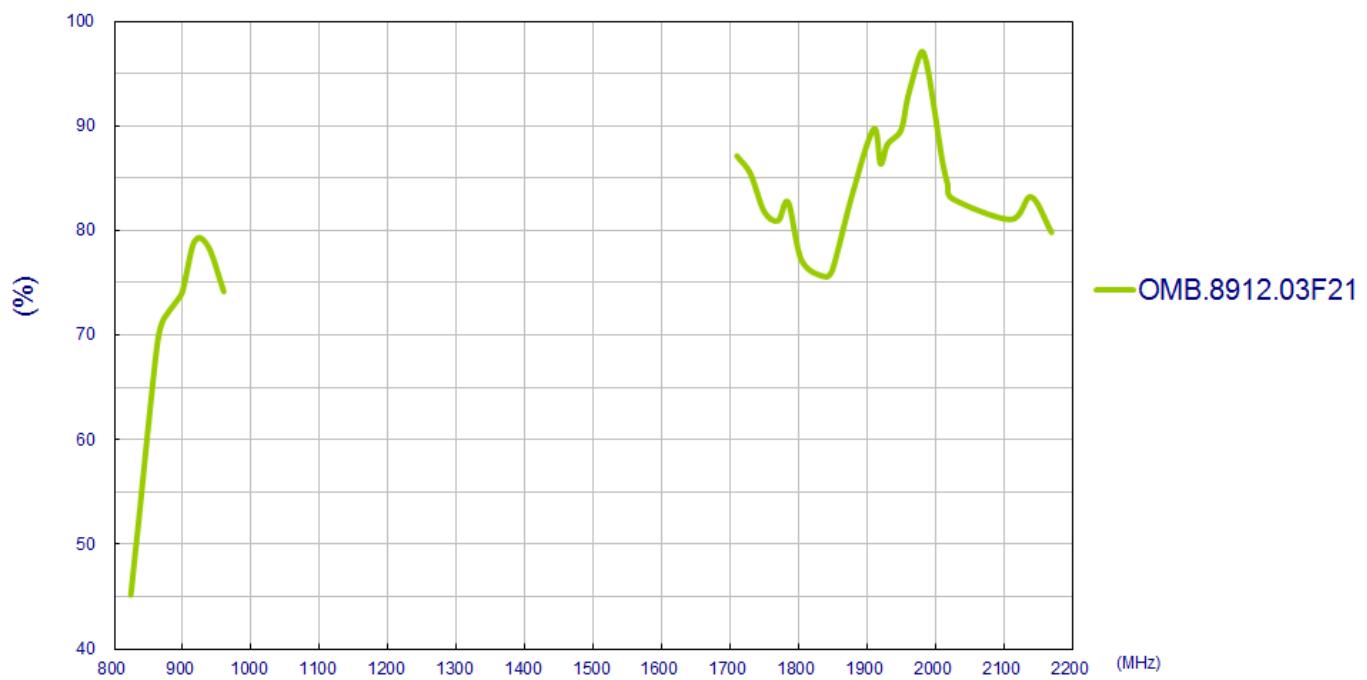
### 3.1 Return Loss



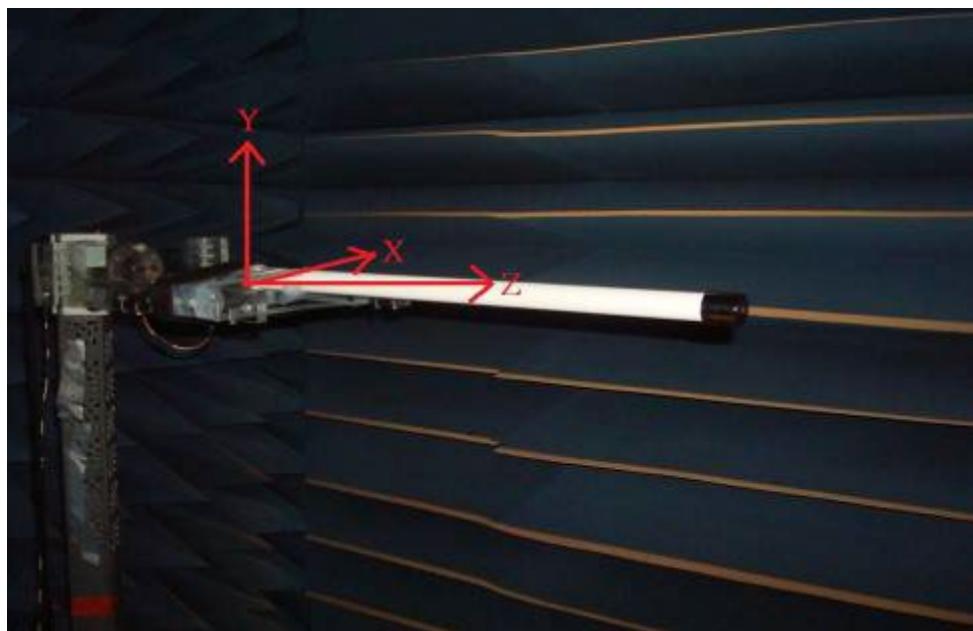
### 3.2 Maximum Gain



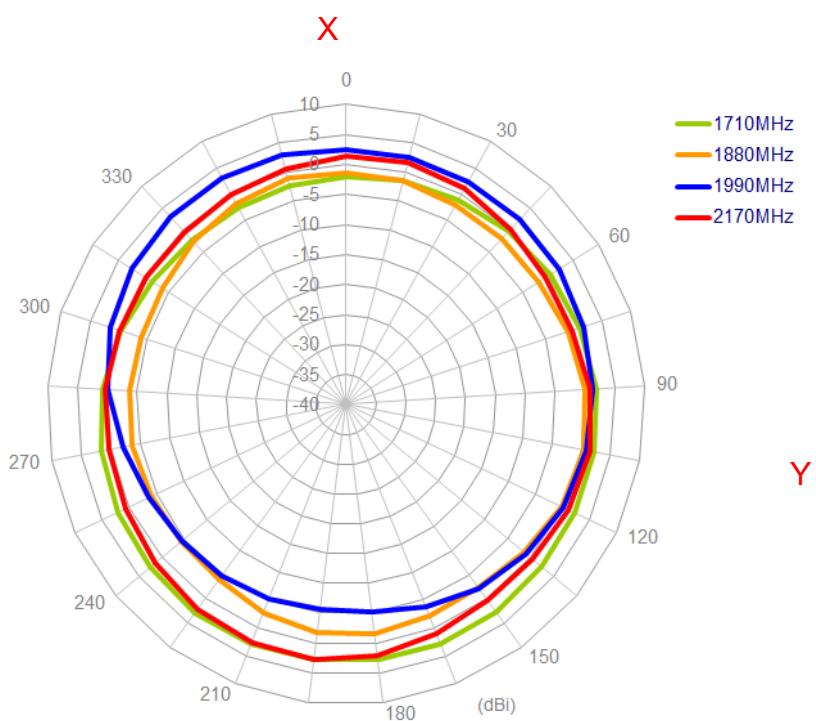
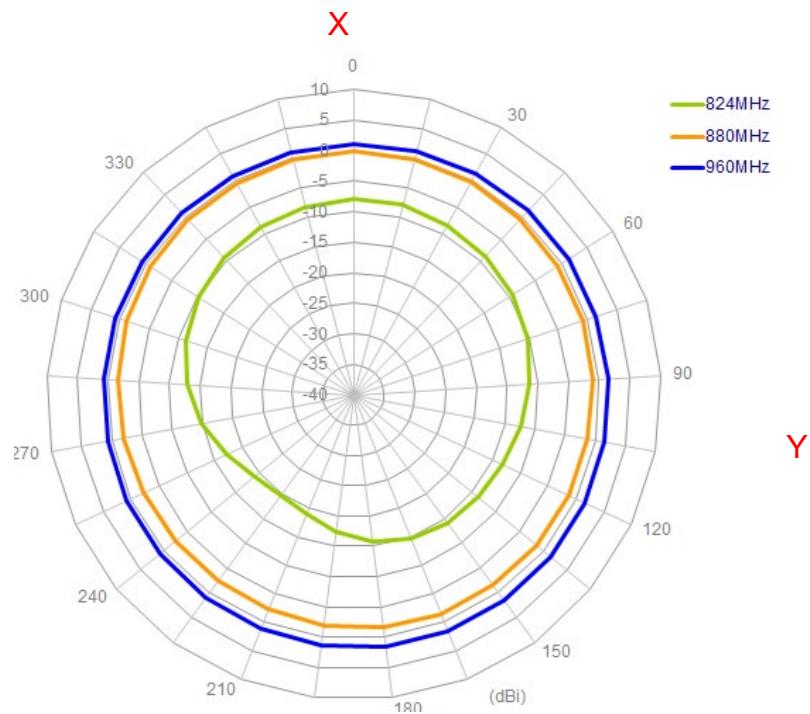
### 3.3 Efficiency



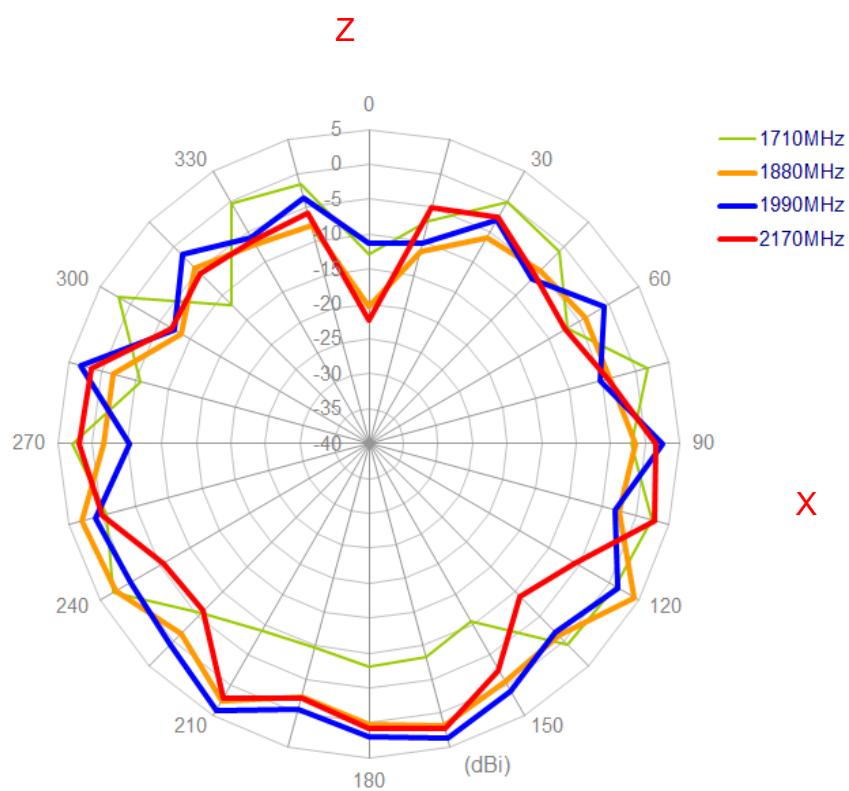
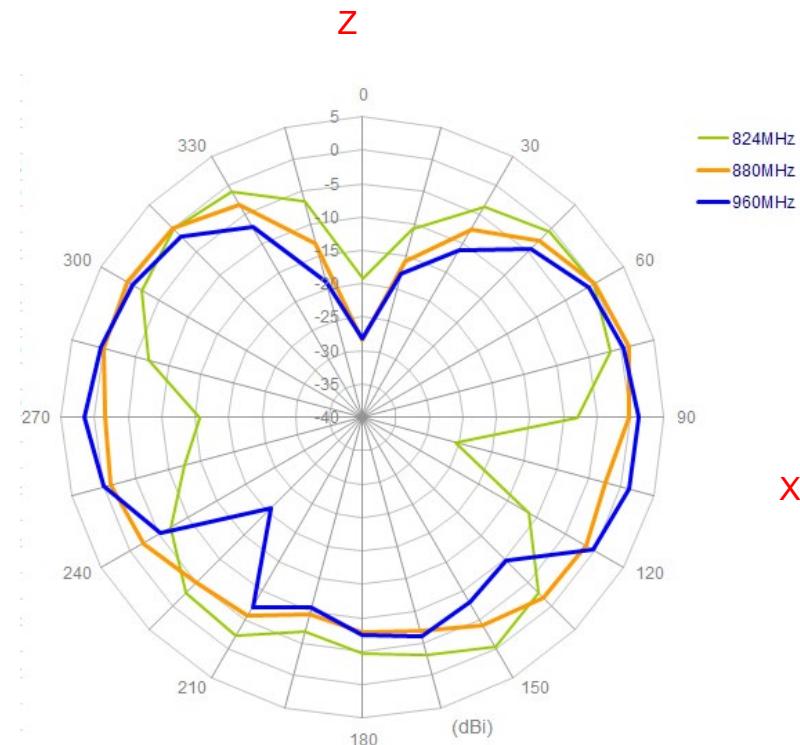
## 4.3D Radiation Property



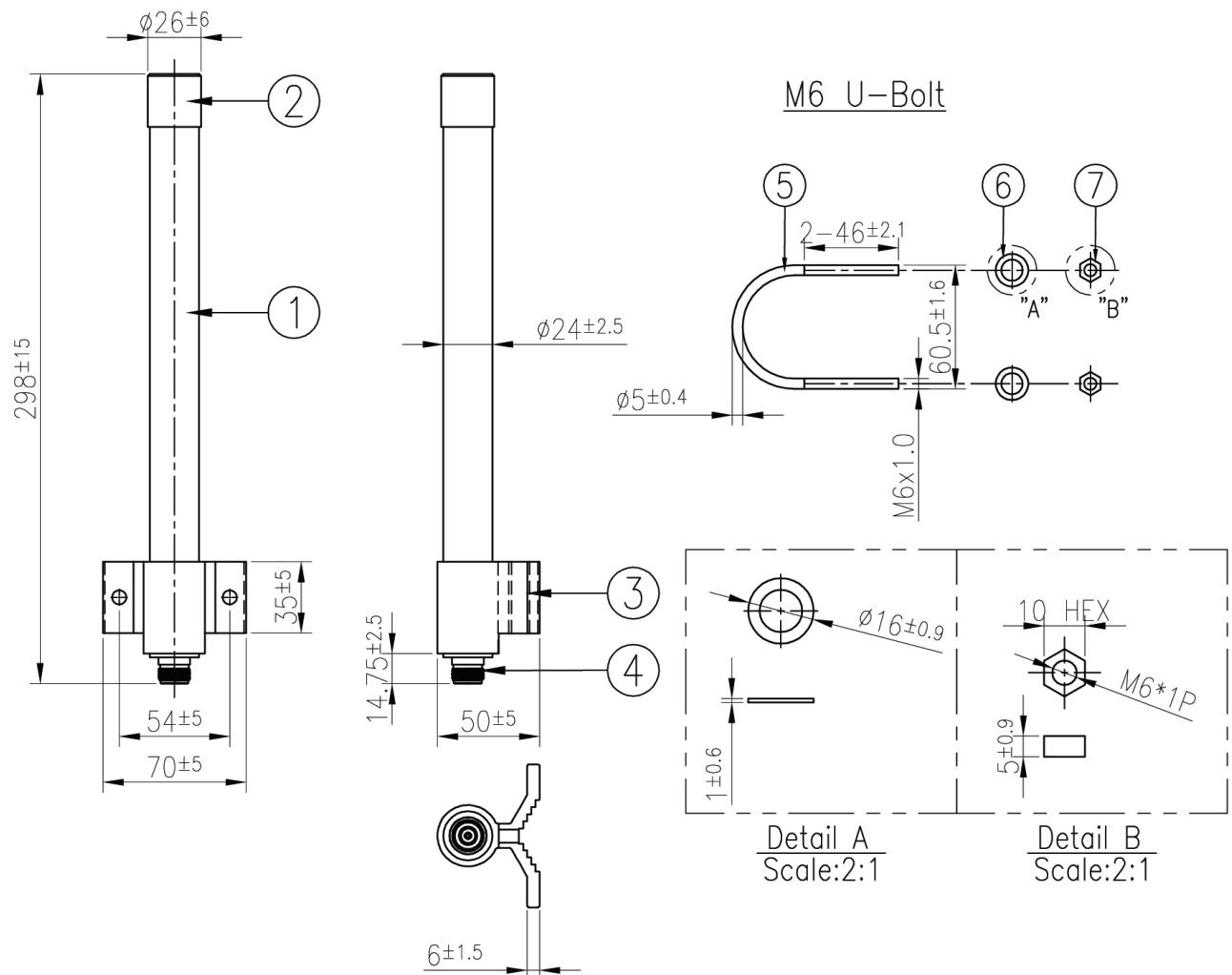
XY-plane



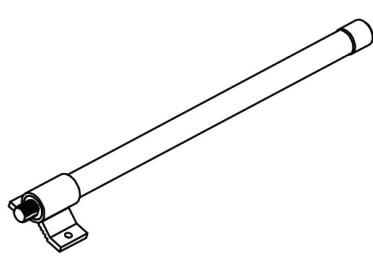
XZ-plane



## 5. Drawing



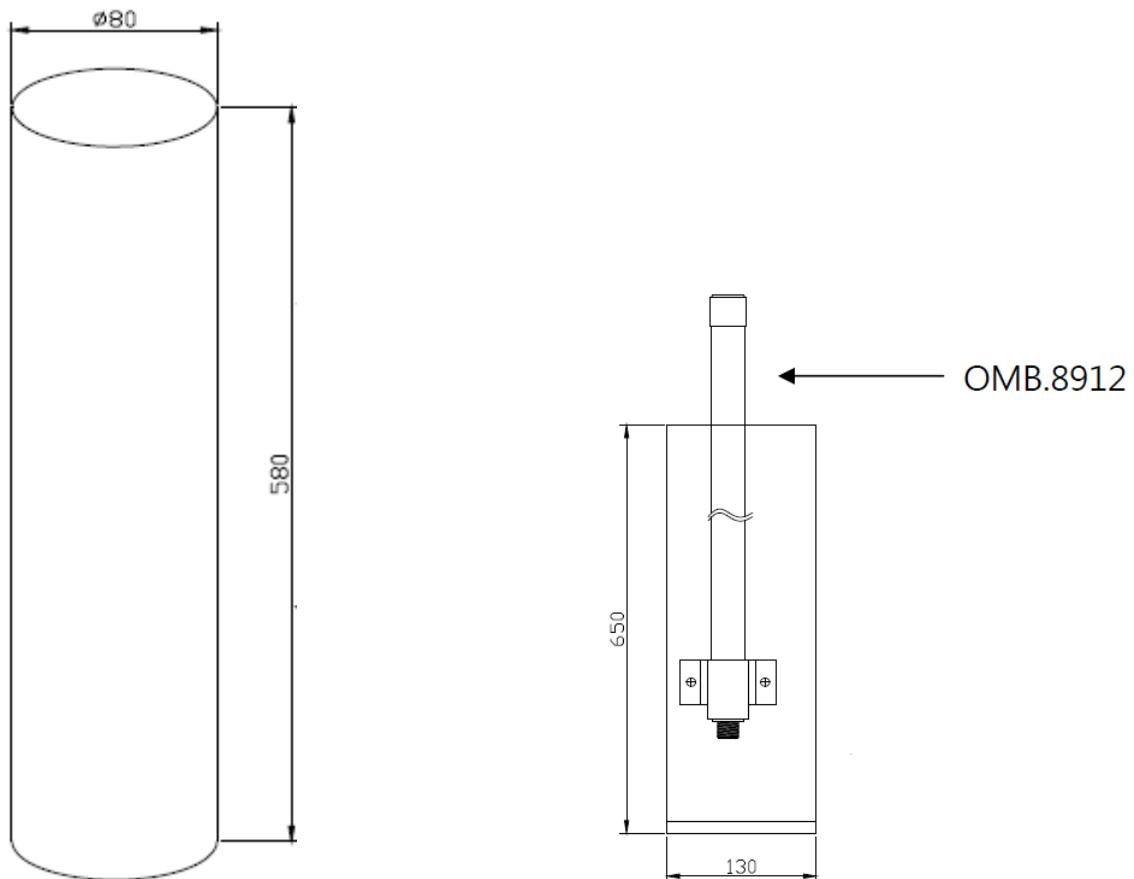
	Name	Material	Finish	QTY
1	OMB.8912 Antenna	Glass Fiber	White	1
2	Cover	ABS	Silver	1
3	Bracket	Aluminum	Silver	1
4	N Type(F)	Brass	Ni Plated	1
5	M6 U Bolt	Stainless Steel	Silver	2
6	M6 Washer	Stainless Steel	Silver	4
7	M6 Nut	Stainless Steel	Silver	4



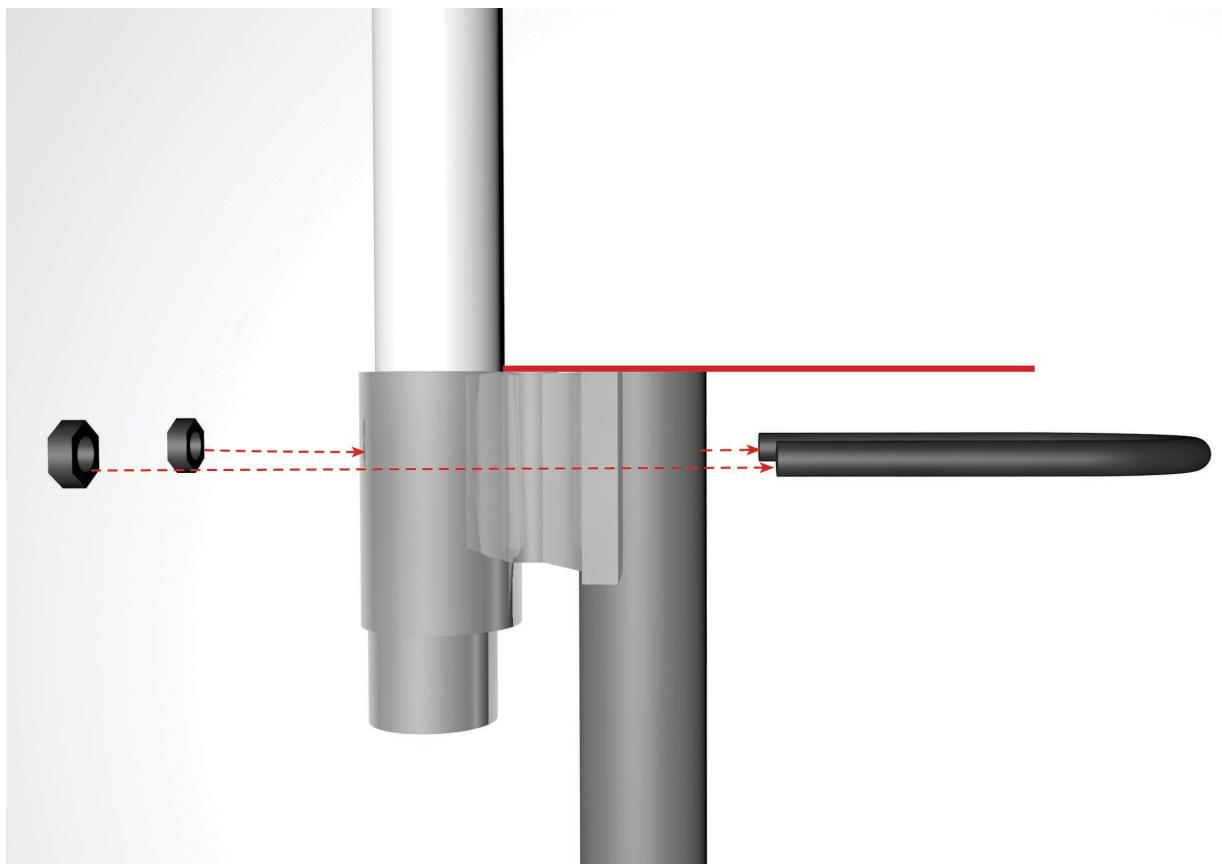
3D View

## 6. Packaging

Antennas are packed in carton tubes inside PE bags. Mounting components are packed in the separate PE bag inside the tube



## 7. Antenna Installation Guide





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