

SPECIFICATION

| | | |
|-------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part No. | : | OMB.8912. 05F21 |
| Description | : | Barracuda - 5 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 5.56 dBi Peak Gain Robust Design for all Weather operation IP65 Waterproof Length: 595mm, 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.

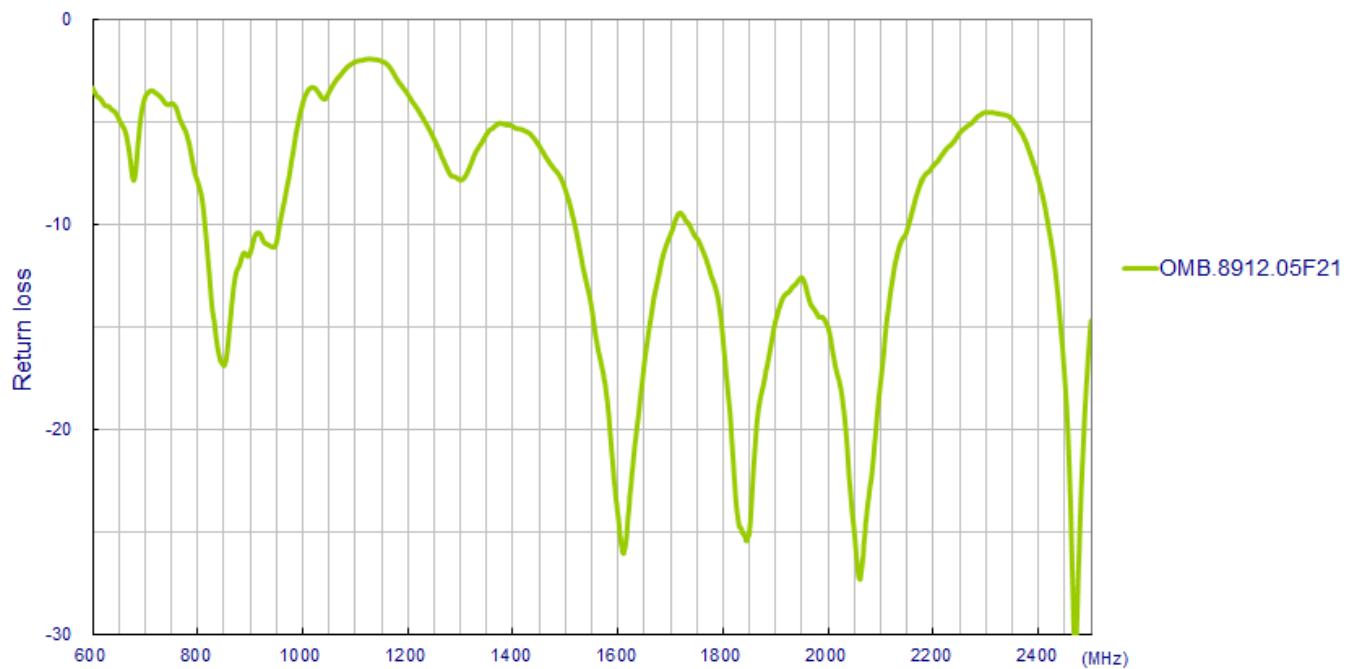
2. Specification

| 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) | 3.04 | 3.03 | 4.30 | 4.83 | 5.56 |
| Average Gain (dBi) | 2.52 | 2.76 | 3.50 | 4.57 | 4.63 |
| Efficiency (%) | 84.2 | 88.7 | 77.8 | 84.5 | 84.2 |
| Antenna Type | Collinear | | | | |
| Polarization | Vertical | | | | |
| Impedance | 50 ohms | | | | |
| Max Input Power | 50 watts | | | | |
| VSWR | <2.0:1 | | | | |
| Radiation | Omni-Directional | | | | |
| Vertical Bandwidth | 30 Deg | | | | |
| Horizontal Bandwidth | 360 Deg | | | | |
| Antenna Design | Dipole Array | | | | |
| Internal Material | Copper | | | | |
| Connector | N Type Female | | | | |
| MECHANICAL | | | | | |
| Length | 595 mm | | | | |
| Bracket Dimension | 70*35mm(Max) | | | | |
| Radome Diameter | 24mm | | | | |
| 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) | | | | |
| Waterproof | IP65 | | | | |
| ENVIRONMENTAL | | | | | |
| Storage Temperature | -40°C to +80°C | | | | |
| Operating Temperature | -40°C to +60°C | | | | |

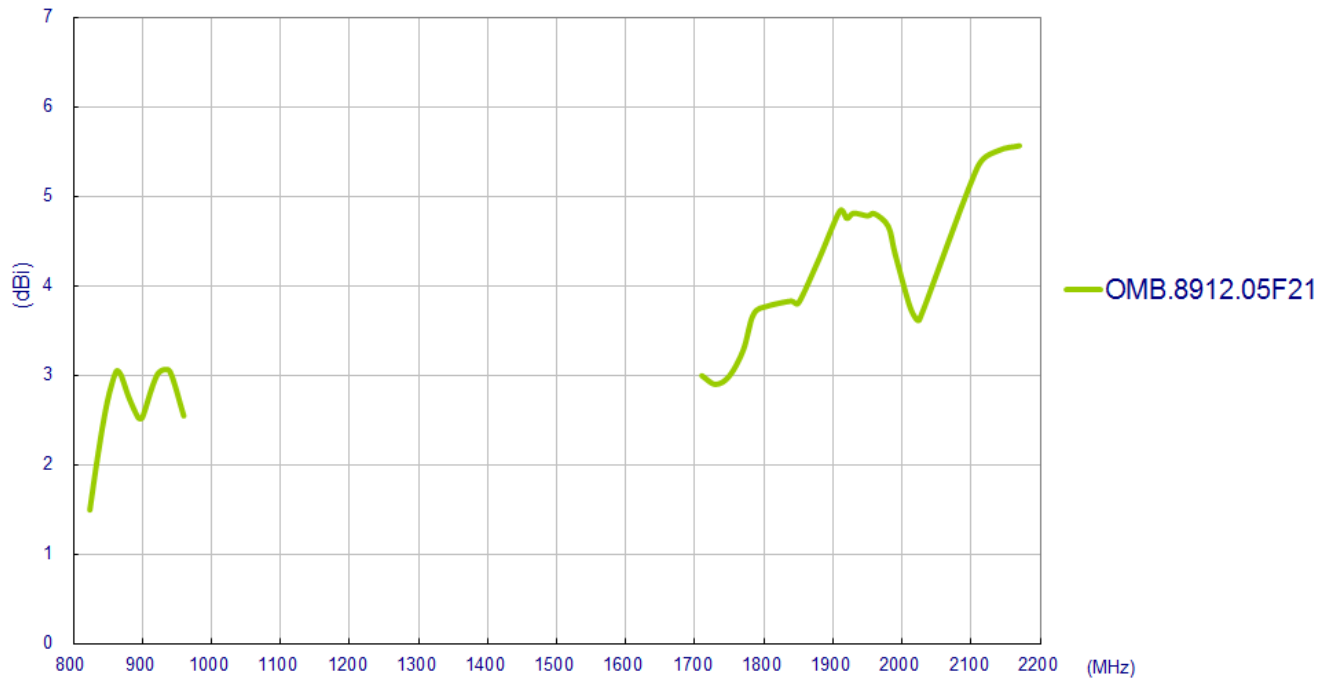
| | |
|--------------------|------------------------|
| Operating Humidity | 10%~80% non-condensing |
| Storage Humidity | 5%~80% non-condensing |

3. Antenna Characteristics

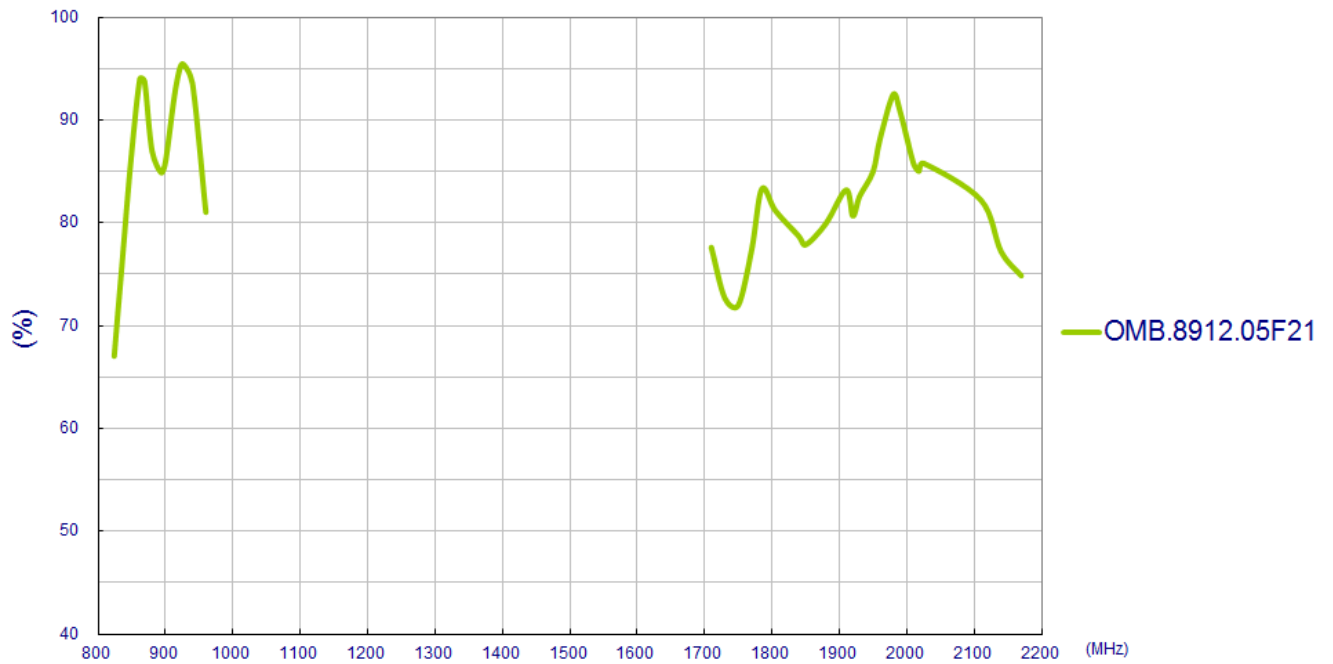
3.1 Return Loss



3.2 Maximum Gain



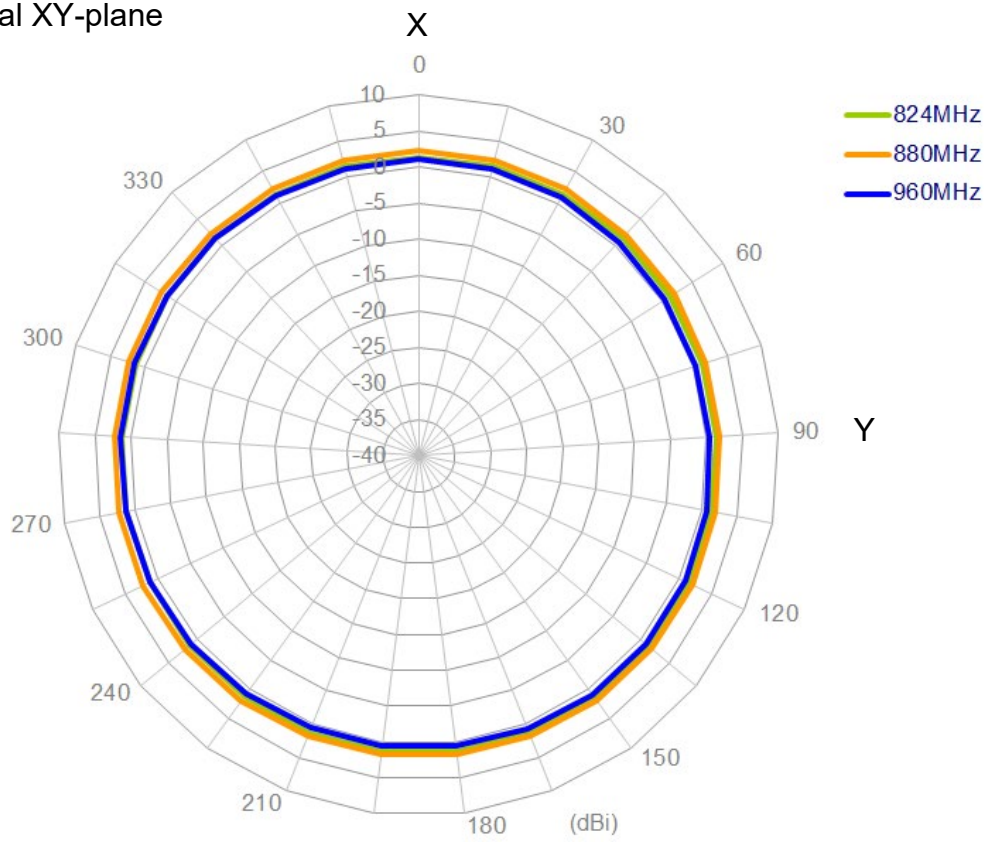
3.3 Efficiency

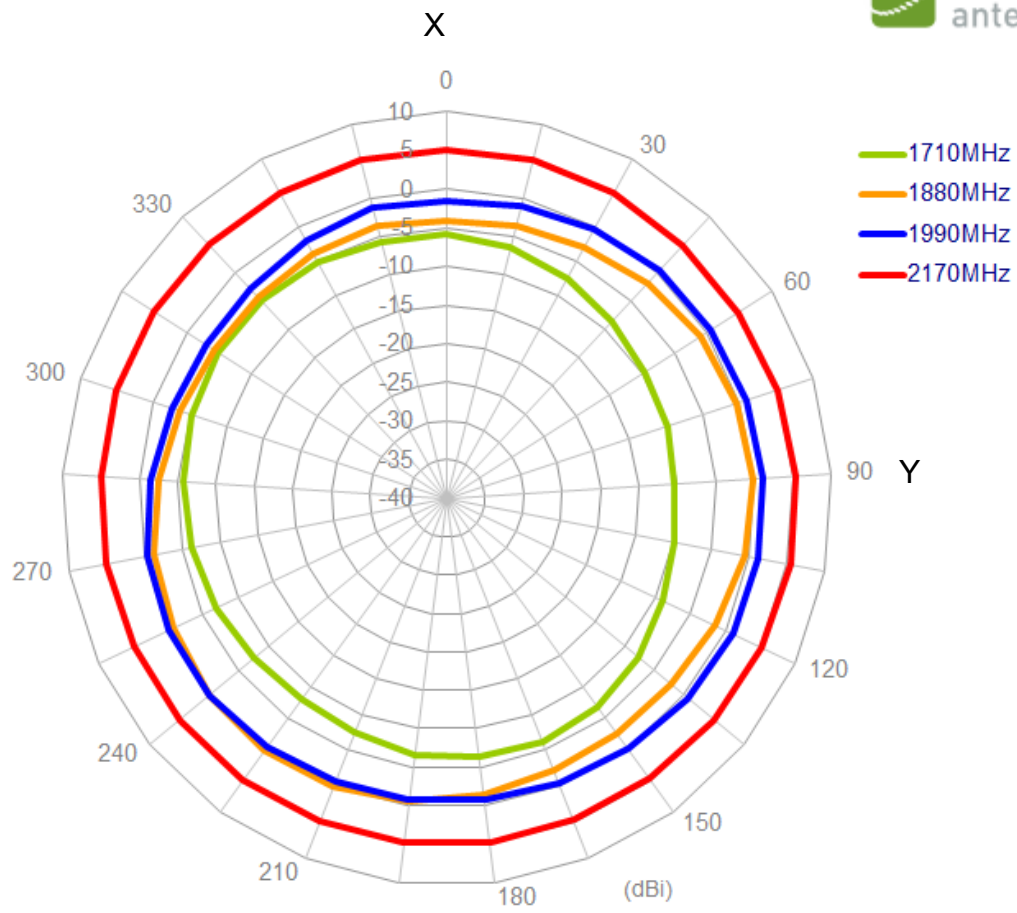


4.3D Radiation Property

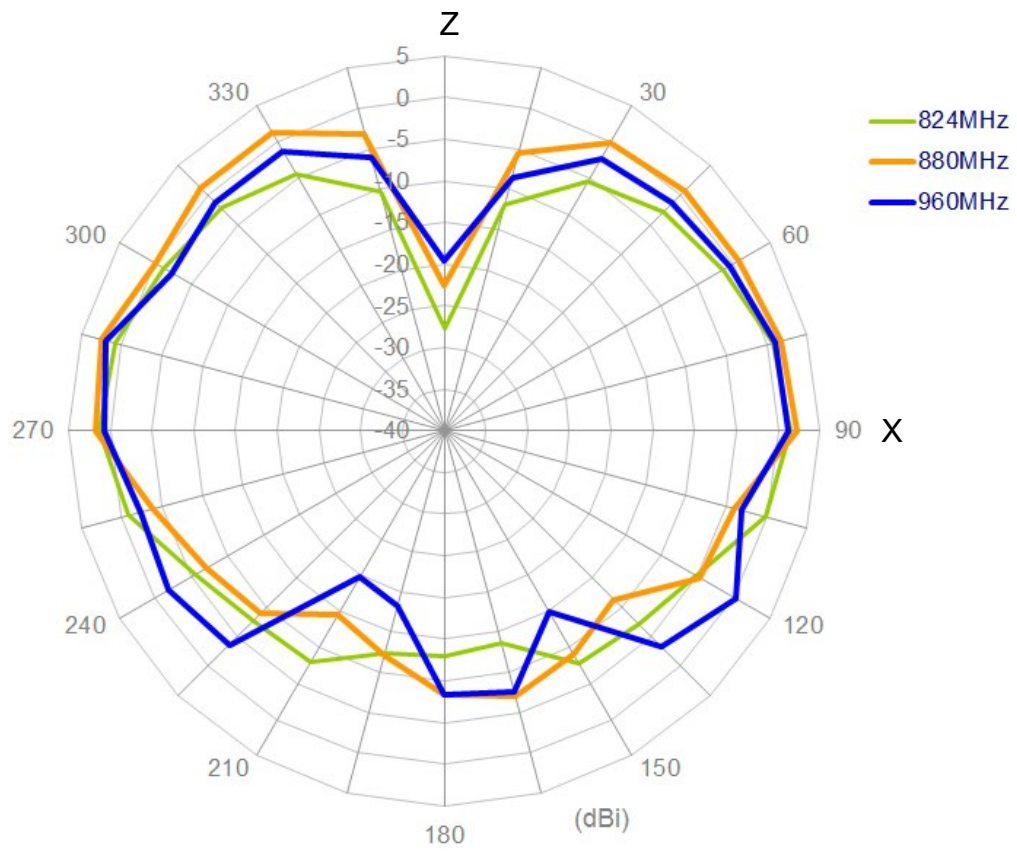


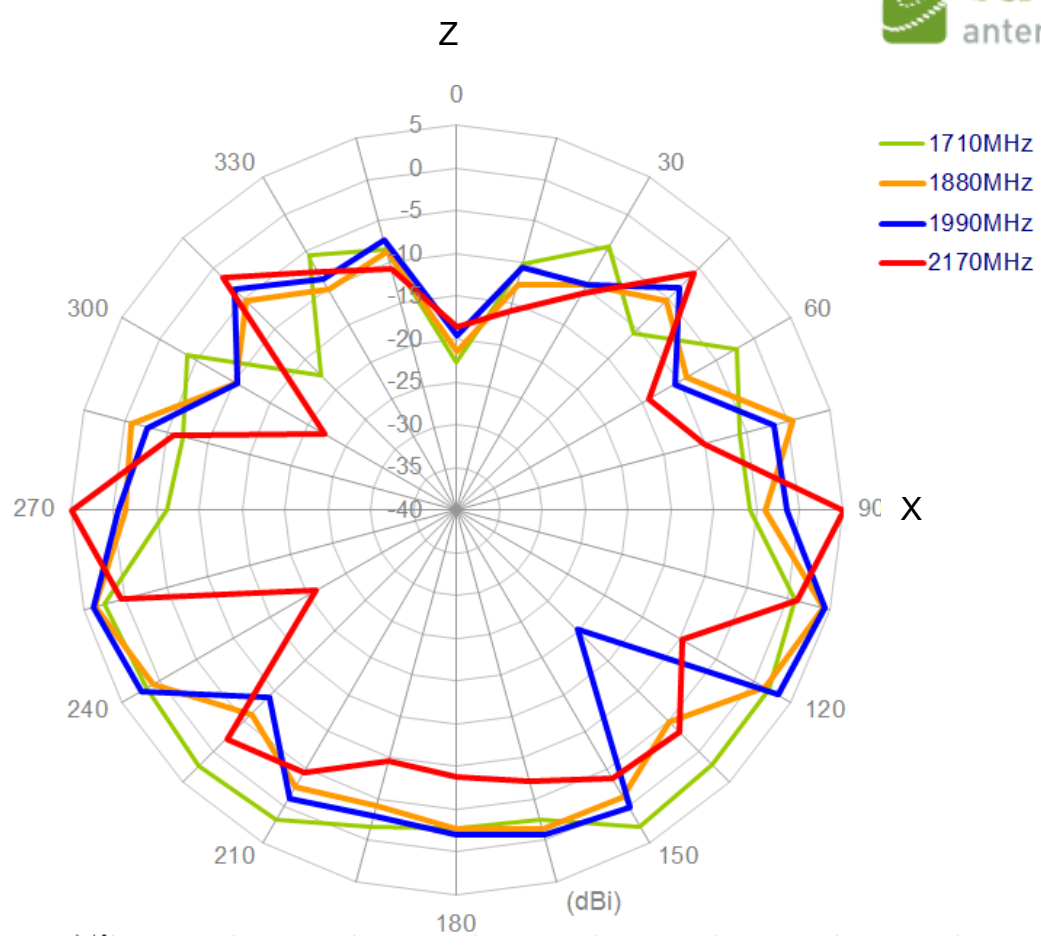
Horizontal XY-plane



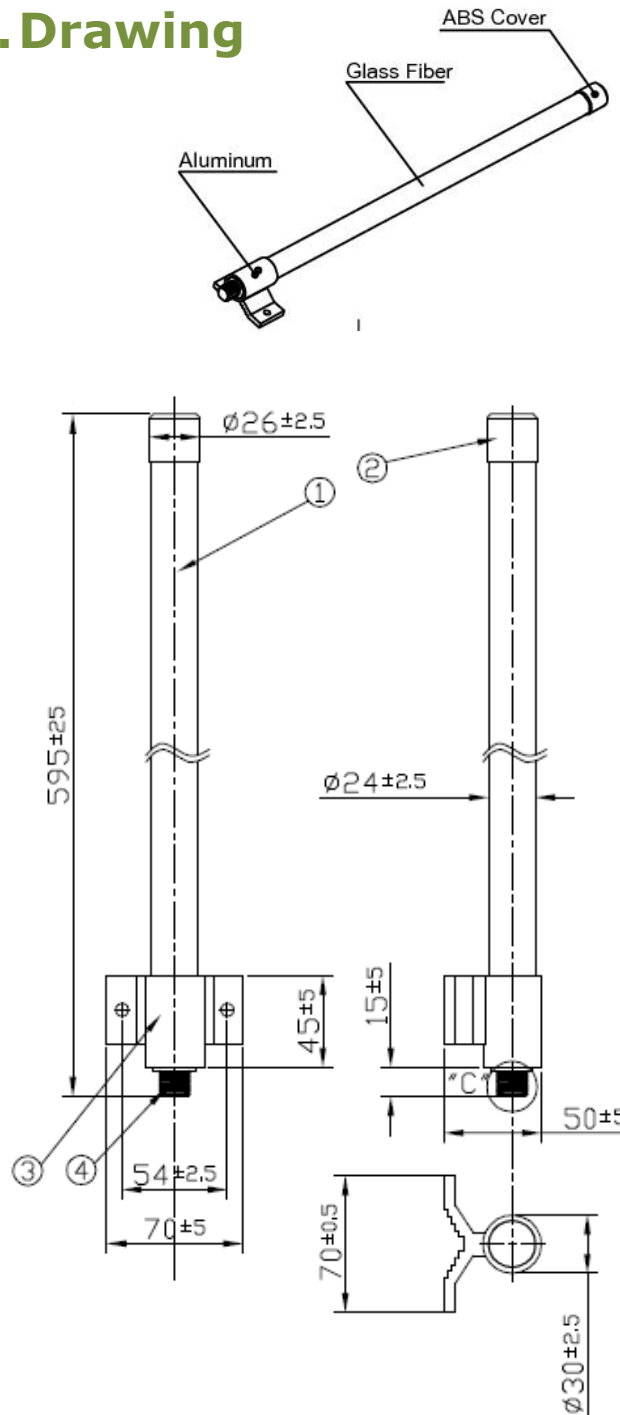


Vertical XZ-plane

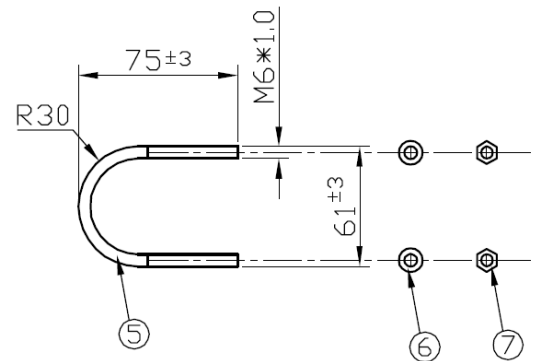




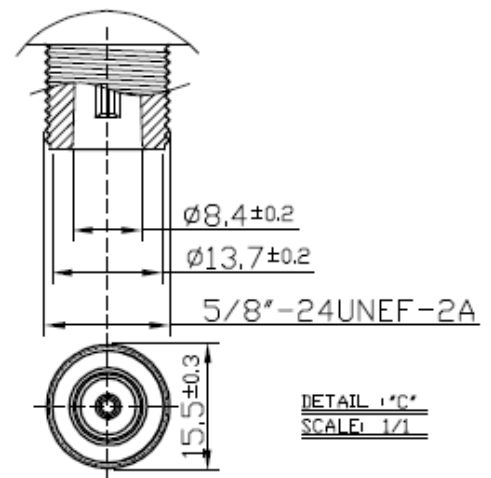
5. Drawing



Bracket



N Type (F)

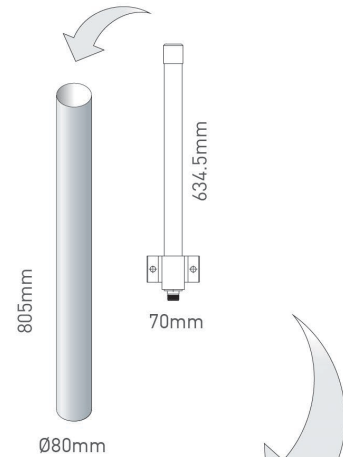


DETAIL 1:1
SCALE: 1/1

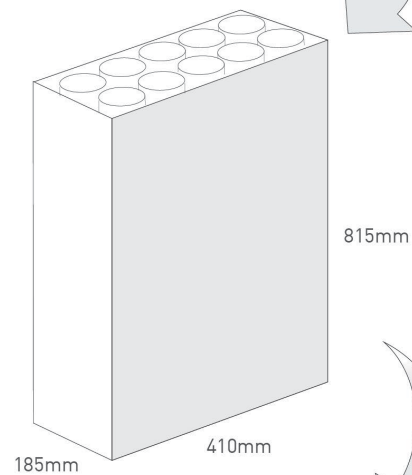
| | Name | P/N | Material | Finish | QTY |
|---|------------------|----------------|-----------------|-----------|-----|
| 1 | OMB.8912 Antenna | 001212C010021A | Glass Fiber | White | 1 |
| 2 | Cover | 000111K000021A | ABS | Silver | 1 |
| 3 | Holder | 000311K000021A | Aluminum | Silver | 1 |
| 4 | N Type(F) | 201211K000021A | Brass | Ni Plated | 1 |
| 5 | M6 U Type Screw | 000411K000021A | Stainless Steel | Silver | 1 |
| 6 | M6 Washer | 000411K010021A | Stainless Steel | Silver | 1 |
| 7 | M6 Nut | 000411K020021A | Stainless Steel | Silver | 1 |

6. Packaging

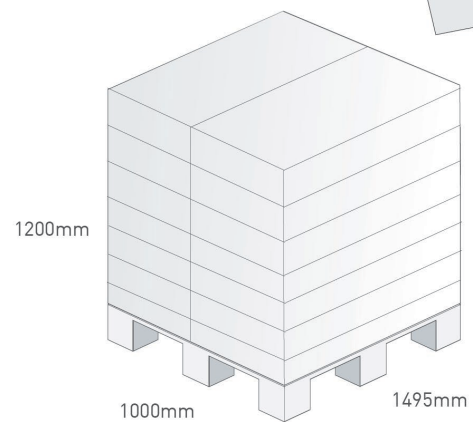
1 OMB.8912.05F21 per tube
 Tube Dimensions - Ø80mm*Height 805mm
 Total Weight - 634.5g



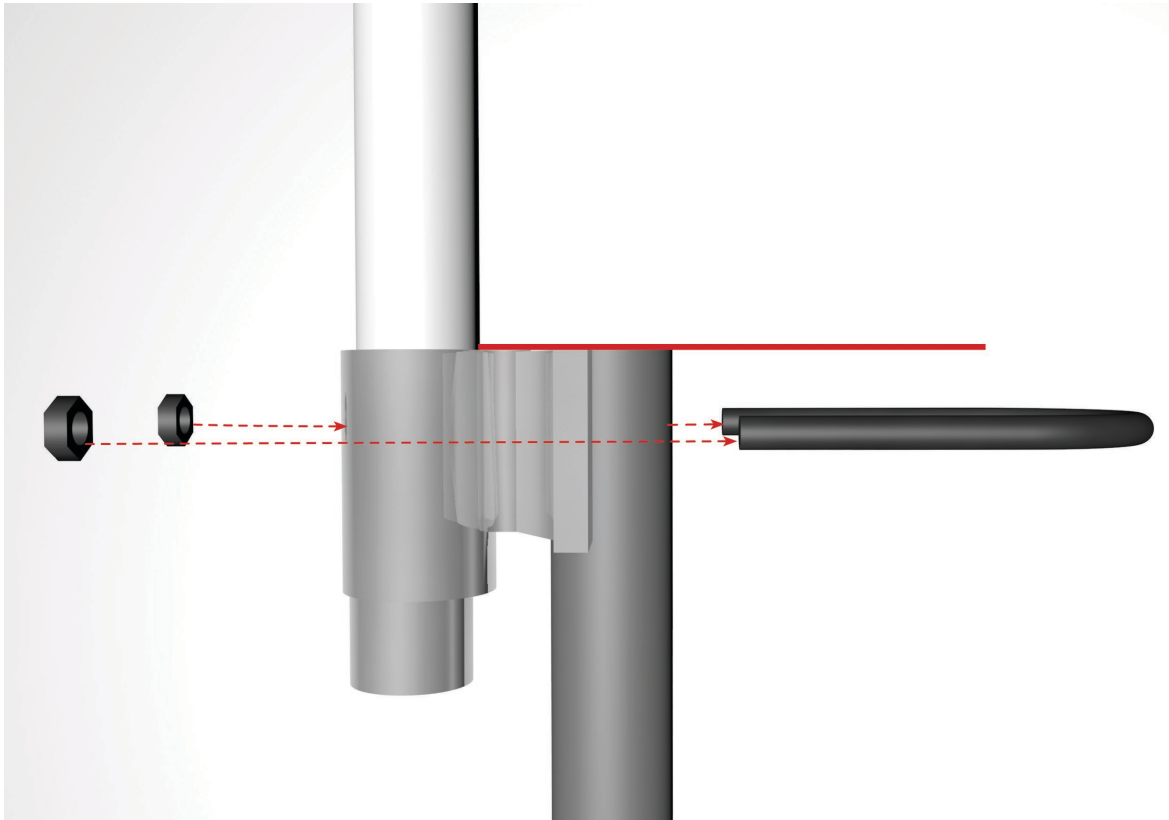
10 tubes per carton
 10 pcs OMB.8912.05F21 per carton
 Carton Dimensions - 815*410*185mm
 Weight - 7.49kg



Pallet Dimensions 1200mm*1000mm*1495mm
 14 Cartons per Pallet
 2 Cartons per layer
 7 Layers



7. Antenna Installation Guide



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