

# SPECIFICATION

**Iridium® Certified**

Part No. : **IAA.01.121111**

Product Name : External Magnetic Mount Iridium Antenna

Feature : 1616MHz ~1626.5MHz  
Custom cables and connectors available  
Iridium® has certified the IAA.01.121111  
Antenna for commercial use in connection  
with the Iridium Communications System  
RoHS ✓



## 1. Introduction

The IAA.01 is a high performance magnetic mount antenna which is designed specific to communicate efficiently with the Iridium® Satellite Communication system.

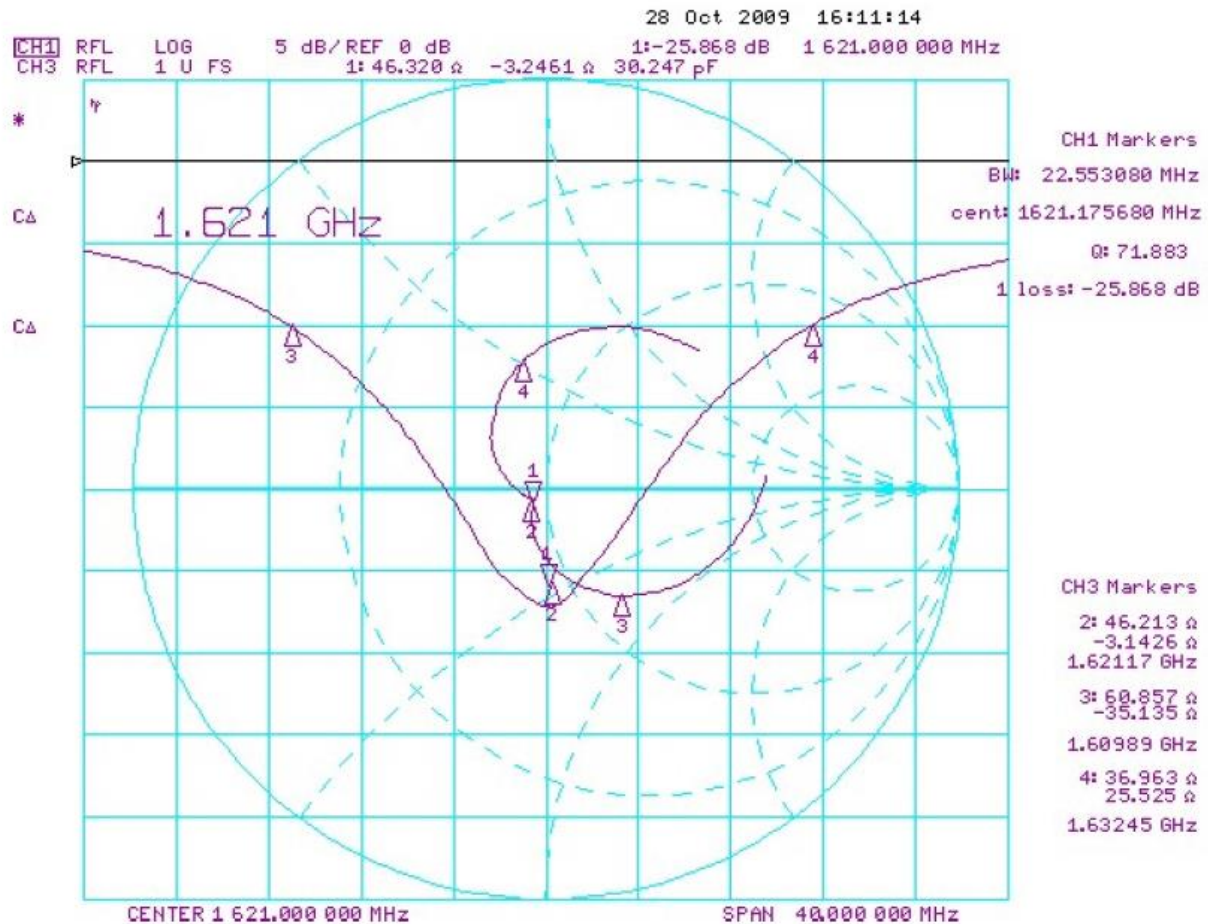
The IAA.01 utilises the Taoglas expertise in ceramics by incorporating a ceramic patch tuned specifically for the antenna environment, giving greater stability. The antenna housing is strong, corrosive proof and waterproof to IP67. The magnetic mount allows for easy installation and removal between vehicles or assets, it is easily converted to an adhesive type for greater flexibility.

Iridium® has certified the IAA.01.121111 Antenna for commercial use in connection with the Iridium Communications System. Iridium Satellite LLC is the owner of "Iridium" and all other Iridium trademarks, service marks and logos contained herein.

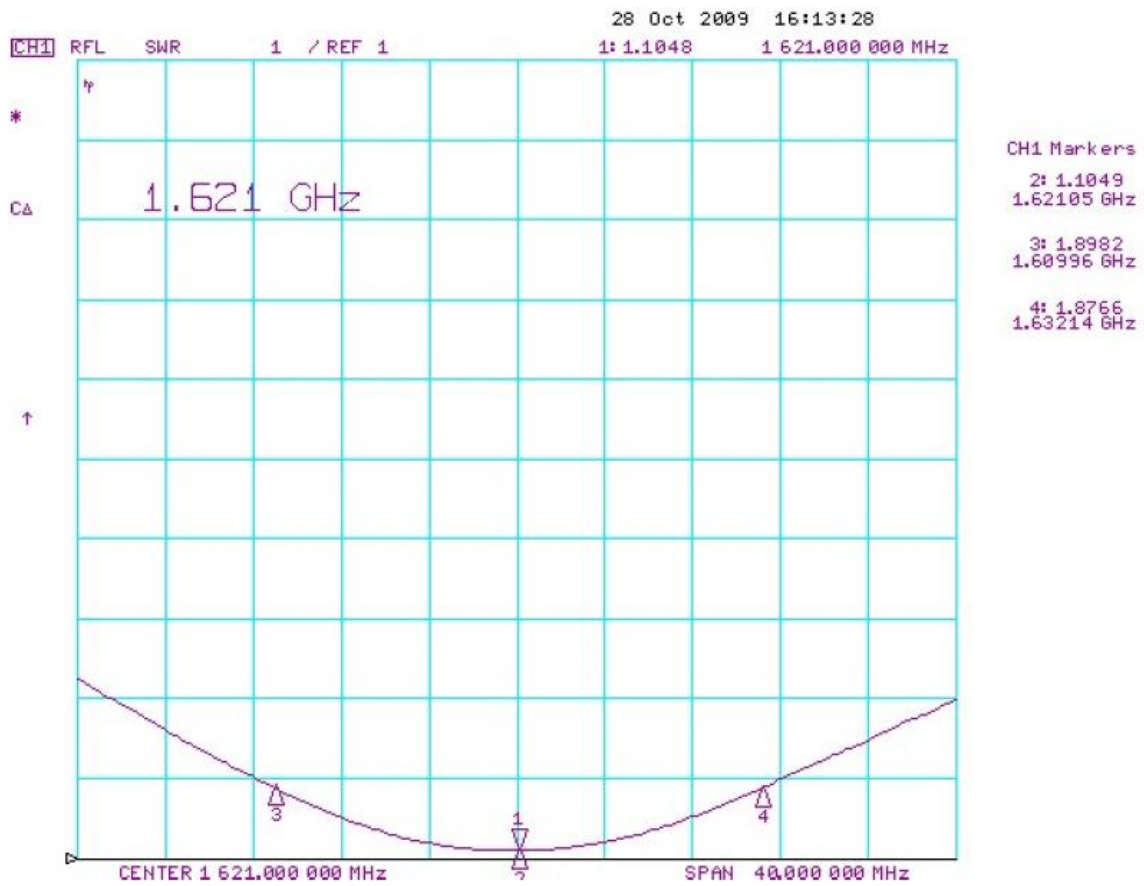
## 2. Specification

| Parameter             | Specification                         |
|-----------------------|---------------------------------------|
| Frequency Range       | 1616Mhz~1626.5Mhz                     |
| Centre Frequency      | 1621.5MHz ±5.25MHz                    |
| Bandwidth             | 15MHz                                 |
| Impedance             | 50 Ohms                               |
| Polarization          | RHCP                                  |
| VSWR                  | 1.5 Max (at centre frequency)         |
| Connector             | SMA(M)plug                            |
| Cable                 | RG-174                                |
| Termination           | Ag (Environmentally-Friendly PB Free) |
| Operation Temperature | -40°C to + 85°C                       |
| Storage Temperature   | -40°C to + 85°C                       |
| Relative Humidity     | 40% to 95%                            |
| Dimensions            | 40.5*38*12.3mm                        |

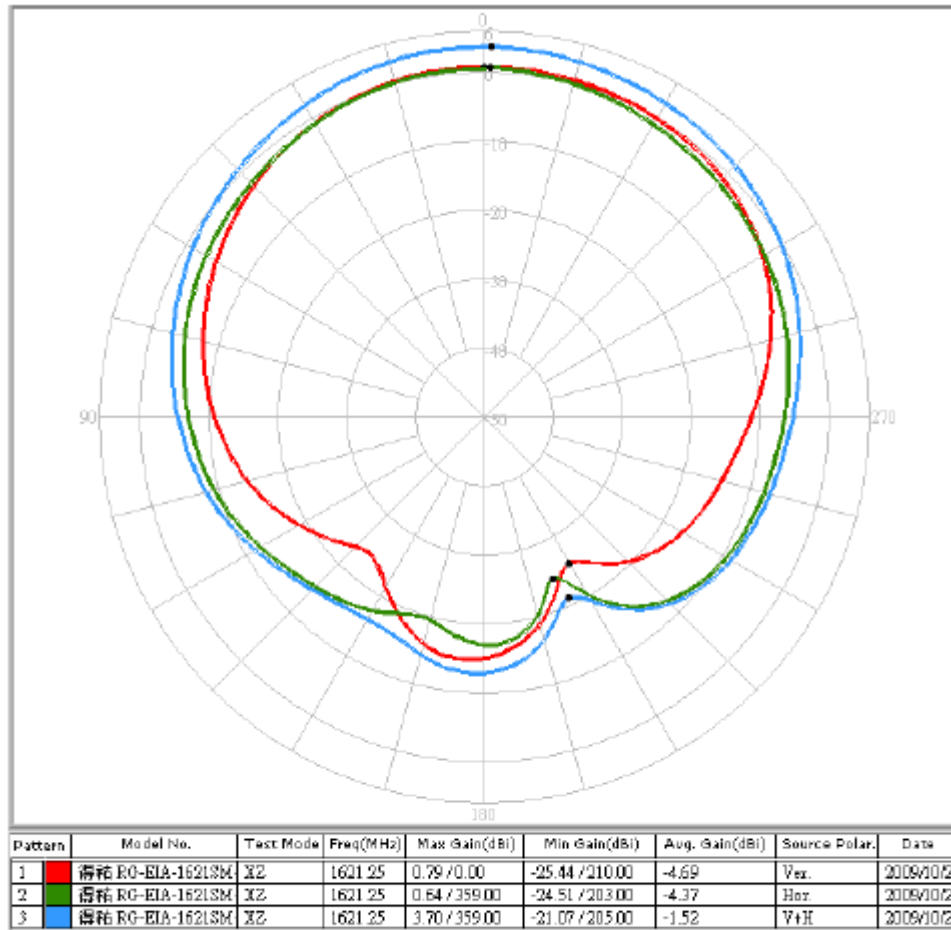
### 3. Performance Measurement and Results



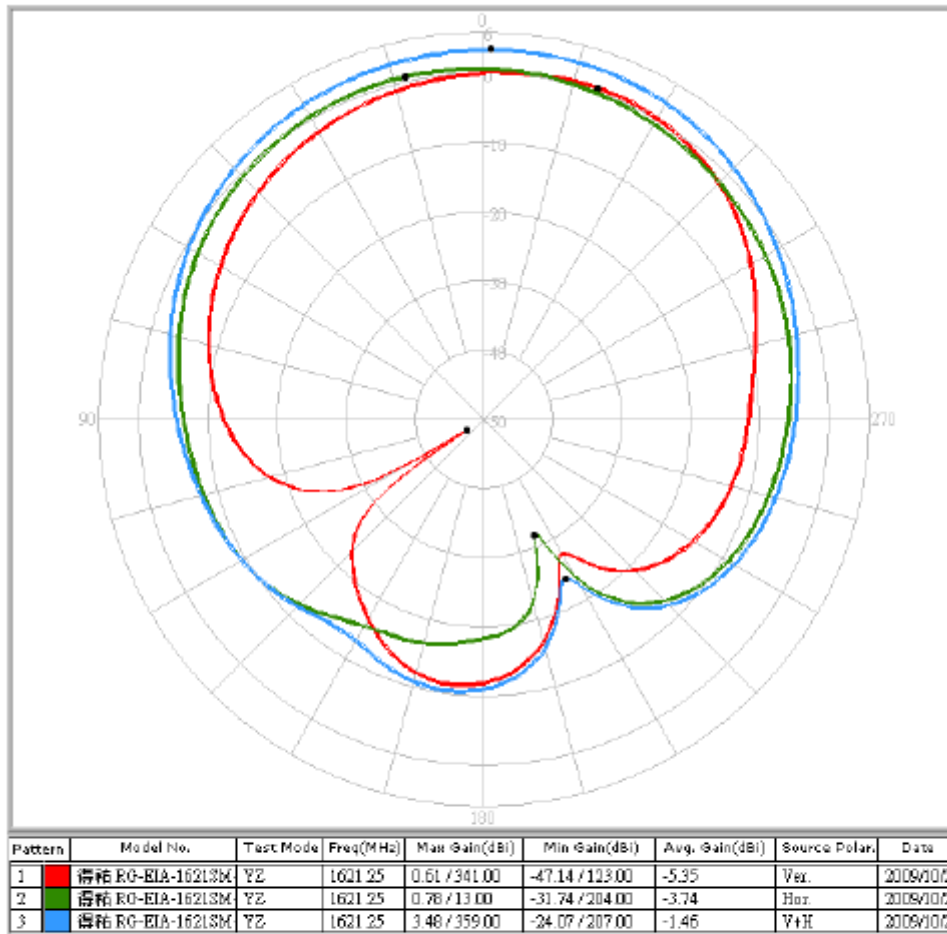
## 4.VSWR



## 5. Antenna Gain Chart

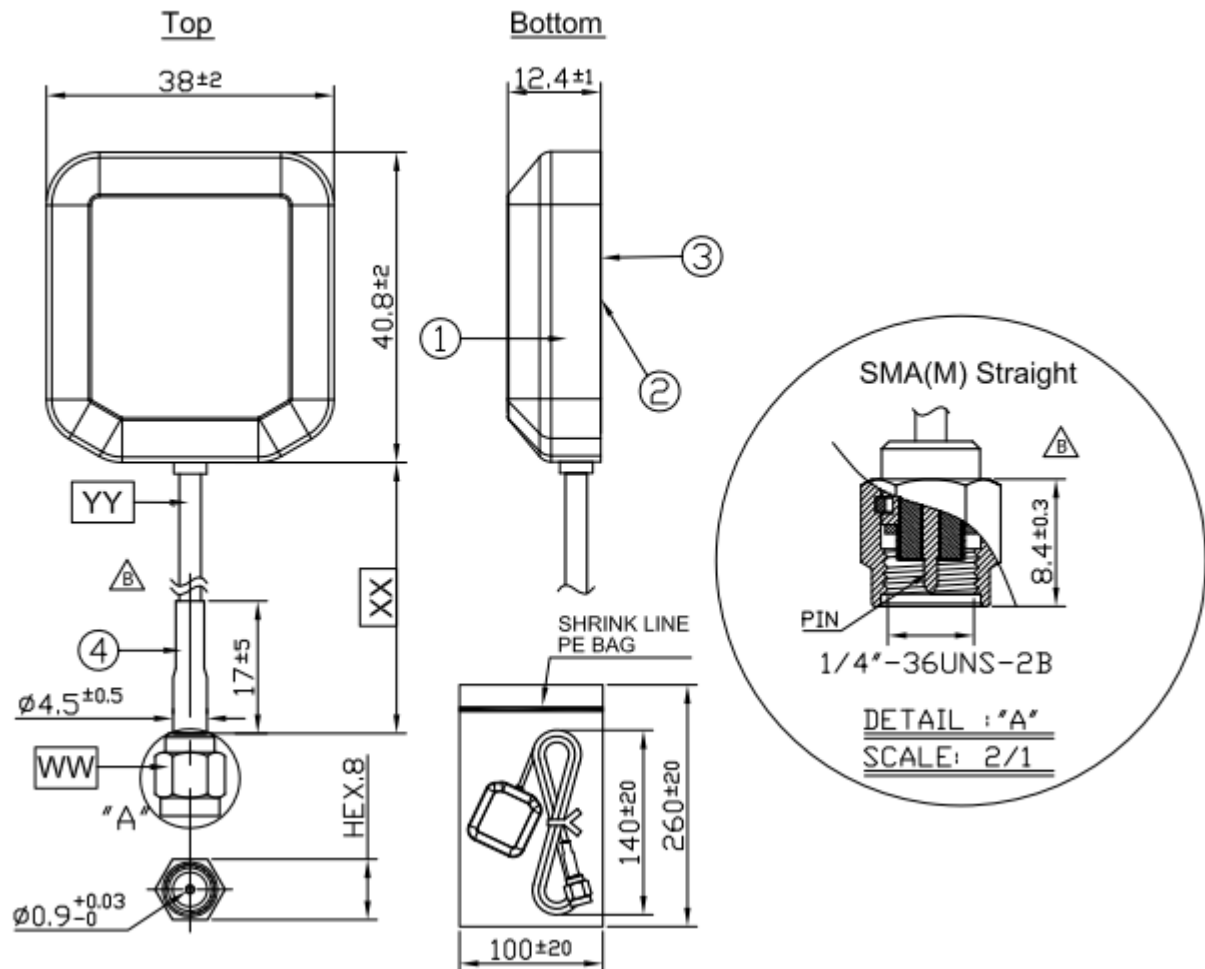


**XZ-Plane**



## YZ-Plane

## 6. Drawing



|   | Name                   | Material     | Finish | QTY |
|---|------------------------|--------------|--------|-----|
| 1 | Iridium Antenna Top    | PC           | Black  | 1   |
| 2 | Iridium Antenna Bottom | PC           | Black  | 1   |
| 3 | Sticker                | Coated Paper | Black  | 1   |
| 4 | Heat Shrink Tube       | PE           | Black  | 1   |

|    | Name           | Spec            | Finish | QTY |
|----|----------------|-----------------|--------|-----|
| WW | Connector Type | SMA(M) Straight | Gold   | 1   |
| XX | Cable Length   | 1200±30mm       |        | 1   |
| YY | Cable Type     | RG174           | Black  | 1   |

## 7. Packing Details

100 Units / Carton

