

# DATASHEET

|                    |  |
|--------------------|--|
| <b>Type</b>        | GNSS Antenna                                       |
| <b>Frequencies</b> | GPS/GLONASS (1572-1610 MHz)                        |
| <b>Mounting</b>    | Any Surface/Magnetic Mount/Patch Mount             |
| <b>Part No.</b>    | <b>2J433G</b><br><b>2J433GF</b><br><b>2J433GFD</b> |
| <b>Revision</b>    | 00   |





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## 1. PRODUCT SELECTOR:

- 2J433G:** Unfiltered version  
**2J433GF:** Filtered version  
**2J433GFD:** Filtered version with limiter diode

## 2. SPECIFICATION

### 2.1. Electrical Specifications

Unfiltered version:

|                       |                             |
|-----------------------|-----------------------------|
| Frequencies           | GPS/GLONASS (1572-1610 MHz) |
| Impedance             | 50 Ohms                     |
| Noise figure          | 1.15dB                      |
| Polarization          | RHCP                        |
| LNA Gain              | 26dB at 3V, 27dB at 5V      |
| VSWR                  | <1.2:1                      |
| Voltage supply        | 2.7V - 5.5V                 |
| Current               | 15mA - 25mA                 |
| Power (max.)          | 138mW                       |
| Operating temperature | -40°C to +85°C              |

Filtered version:

|                       |                             |
|-----------------------|-----------------------------|
| Frequencies           | GPS/GLONASS (1572-1610 MHz) |
| Impedance             | 50 Ohms                     |
| Polarization          | RHCP                        |
| LNA Gain              | 23dB at 3V, 24dB at 5V      |
| VSWR                  | <1.2:1                      |
| Voltage supply        | 2.7V - 5.5V                 |
| Current               | 15mA - 25mA                 |
| Power (max.)          | 138mW                       |
| Operating temperature | -40°C to +85°C              |

## 2.1. Connection Specifications

### 2.1.1. Default (recommended)

|                 |        |
|-----------------|--------|
| Connector type: | SMA    |
| Cable:          | RG174U |
| Cable length:   | 250 cm |

### 2.1.2. Optional

|                      |  |
|----------------------|--|
| Suitable cables:     | RG174, RG316                             |
| Cable length:        | min. 10 cm                               |
| Suitable connectors: | All connectors suitable for cables above |

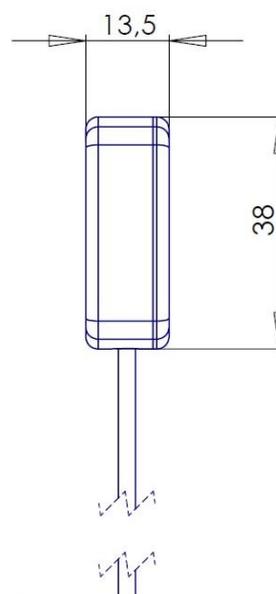
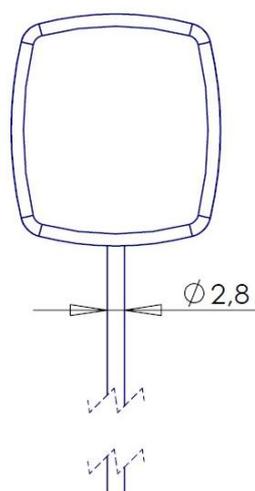
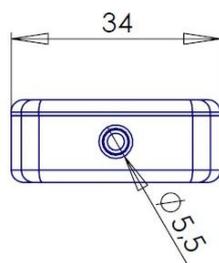
## 2.2. Mechanical Specifications and Dimensions

### 2.2.1. Mounting Type

- Any Surface
- Magnetic Mount
- Patch Mount

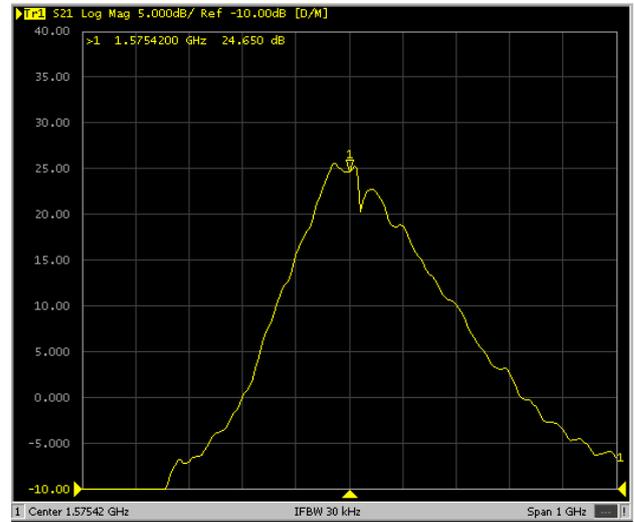
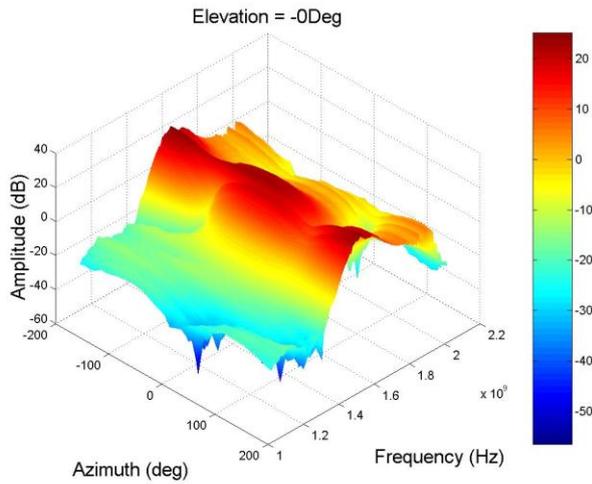
### 2.2.2. Mechanical Spesification

|                  |   |
|------------------|---|
| Material:        | ABS   |
| Max. dimensions: | 14.1mm x 38.6mm x 34.1mm (H x L x W)                    |
| Weight:          | 66 g 'counted with default connection'                  |
| Colour:          | Black (for different colours please ask our sales team) |

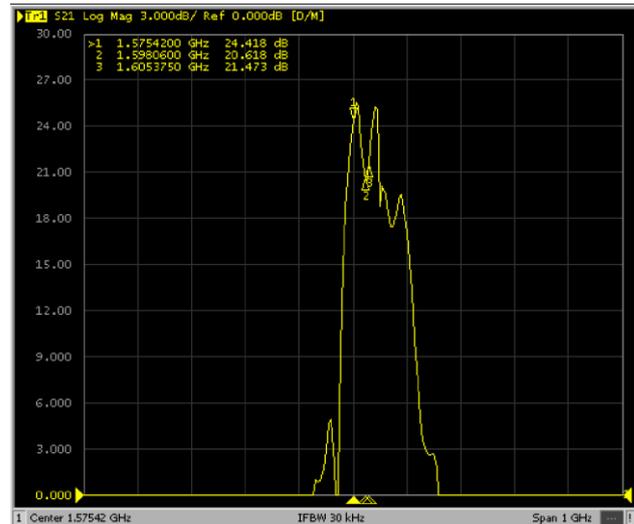
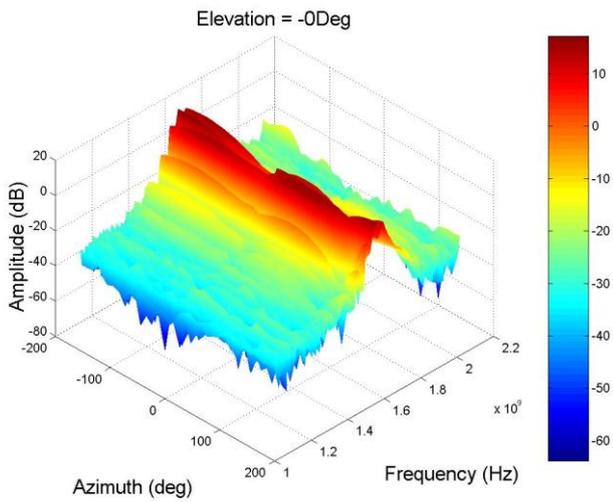


### 3. MEASUREMENT

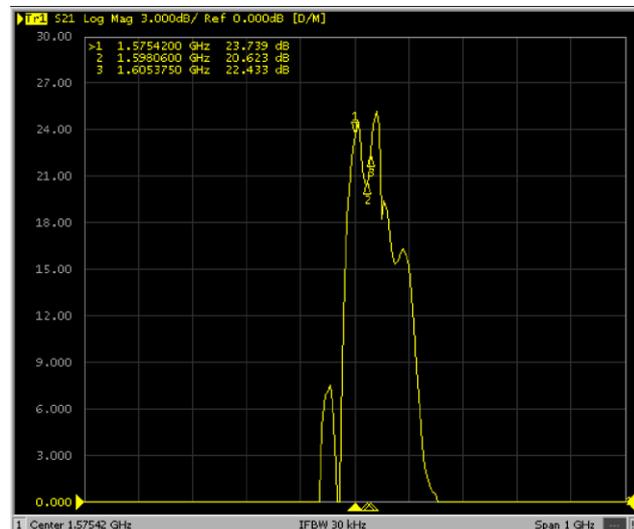
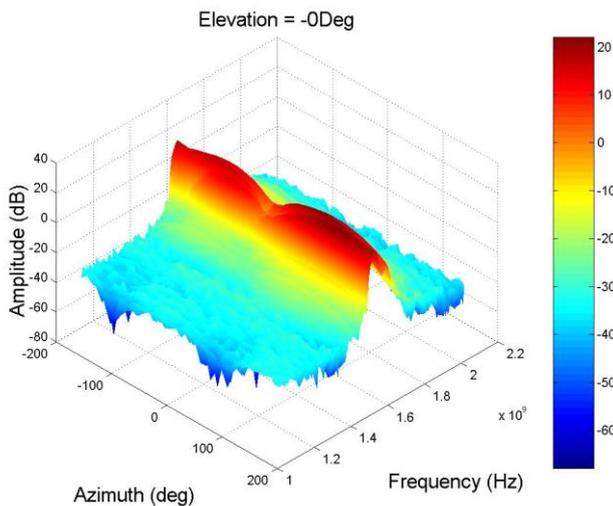
2J433G at 3V:



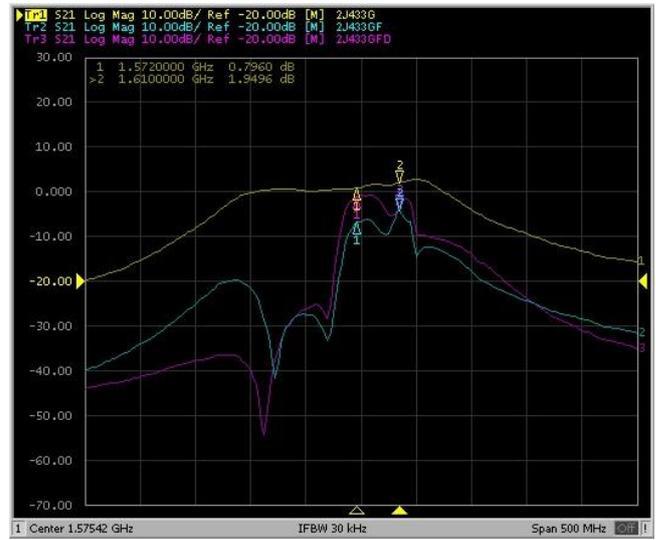
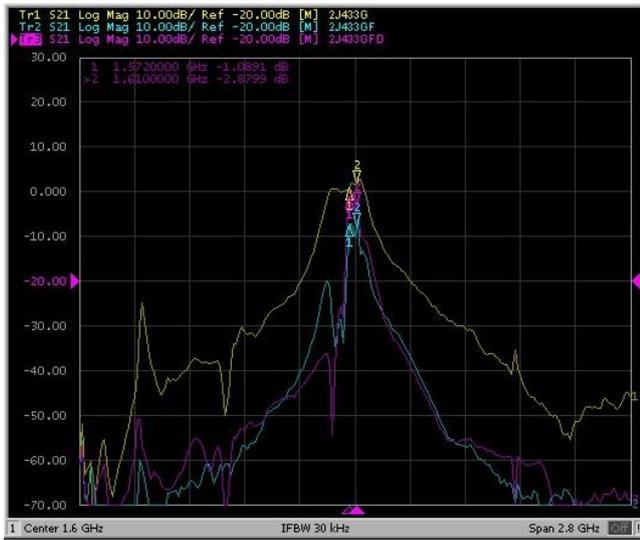
2J433GF at 3V:



2J433GFD at 3V:



Comparacy of all 3 models:



## 4. IMAGES

