antenna conceptor

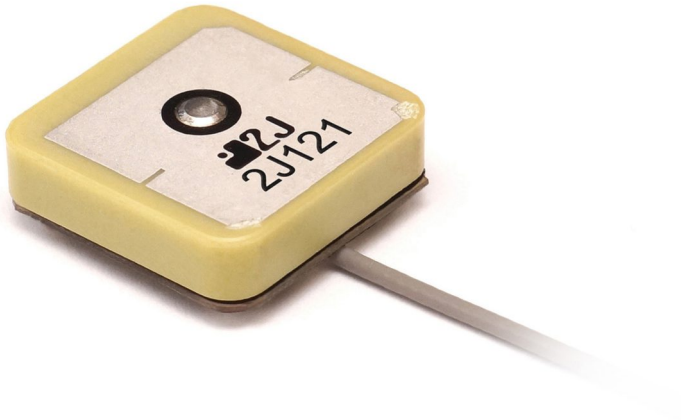
Product Datasheet

# 2JM0501CF

## GNSS Ceramic Active Antenna

## Key Features

**GPS/GLONASS/BeiDou/QZSS/Galileo**
- 1561-1606 MHz
Embedded Antenna
28 dB Gain
Mid-Filter
Low Noise Figure
Low Power Consumption
Ground Plane Independent
Dimensions 18 × 18 × 6.8 mm
Customizable Cable and Connector



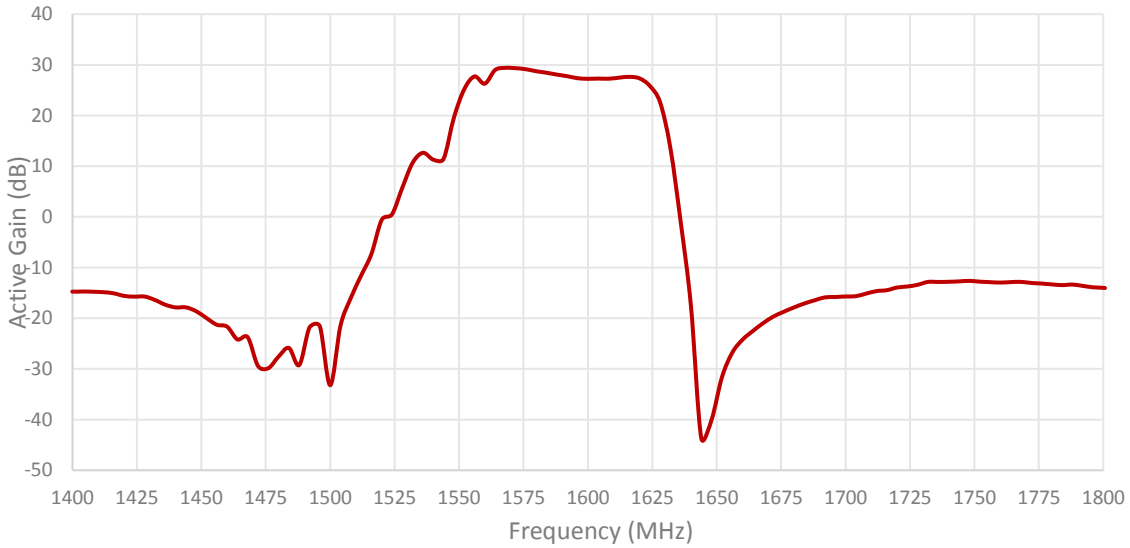
## 1. Antenna and electrical specifications

| Parameters | GNSS Ceramic Active Antenna | | |
|---|---|---|---|
| Standards | BeiDou | GPS/QZSS/Galileo | GLONASS |
| Bands (MHz) | 1561 | 1575 | 1602 |
| Frequency (MHz) | 1561.098 | 1575.42 | 1598-1606 |
| Passive Gain (dBi) | ~5.2 | ~5.4 | ~5.4 |
| Impedance (Ohms) | 50 | | |
| Radiation Pattern | Hemispherical | | |
| Voltage Range (V) | 1.5 - 3.6 | | |
| Active Gain (dB) | 28 @ 2.7 V | | |
| Noise Figure (dB) | 1.0 @ 2.7 V | | |
| Current Consumption (mA) | 9 @ 2.7 V | | |
| Power Consumption (mW) | 24.3 @ 2.7 V | | |
| Saw Filter Type | Mid-Filter | | |
| Out of Band Rejection (dB) | ~43 | | |
| ESD Protection (kV) | 2 | | |
| Connector Type | U.FL Standard (Other Connectors Available) | | |
| Cable Length | 100 mm Standard (Any Cable Length Available) | | |
| Cable Type | 1.37 mm Mini-Coax Standard (Other Cables Available) | | |

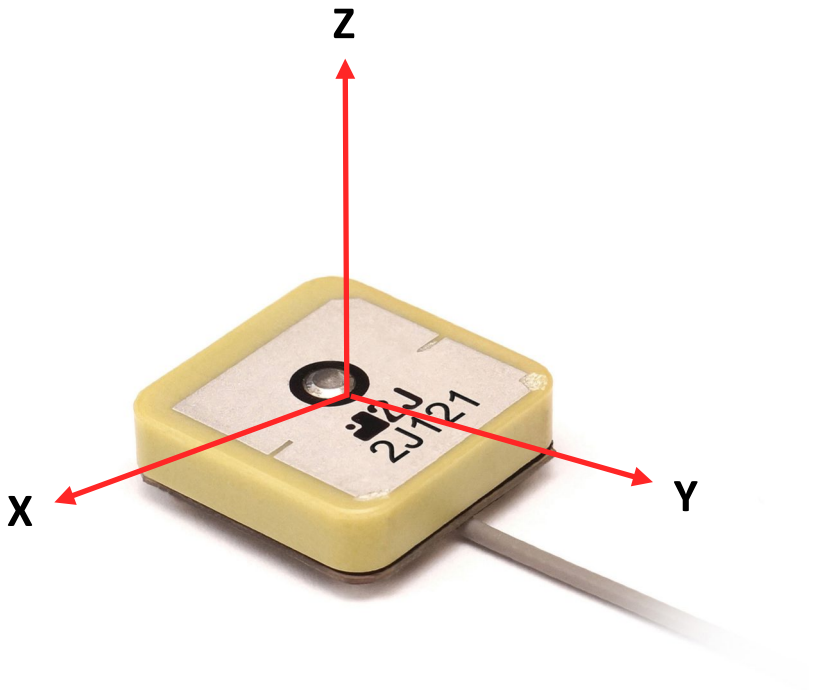
## 2. Mechanical and environmental specifications

| Specifications | 2JM0501CF |
|---|---|
| Dimensions (mm) | 18 × 18 × 6.8 |
| Operating Temperature (C) | -40 to +85 |
| Storage Temperature (C) | -40 to +85 |
| Substance Compliance | RoHS |

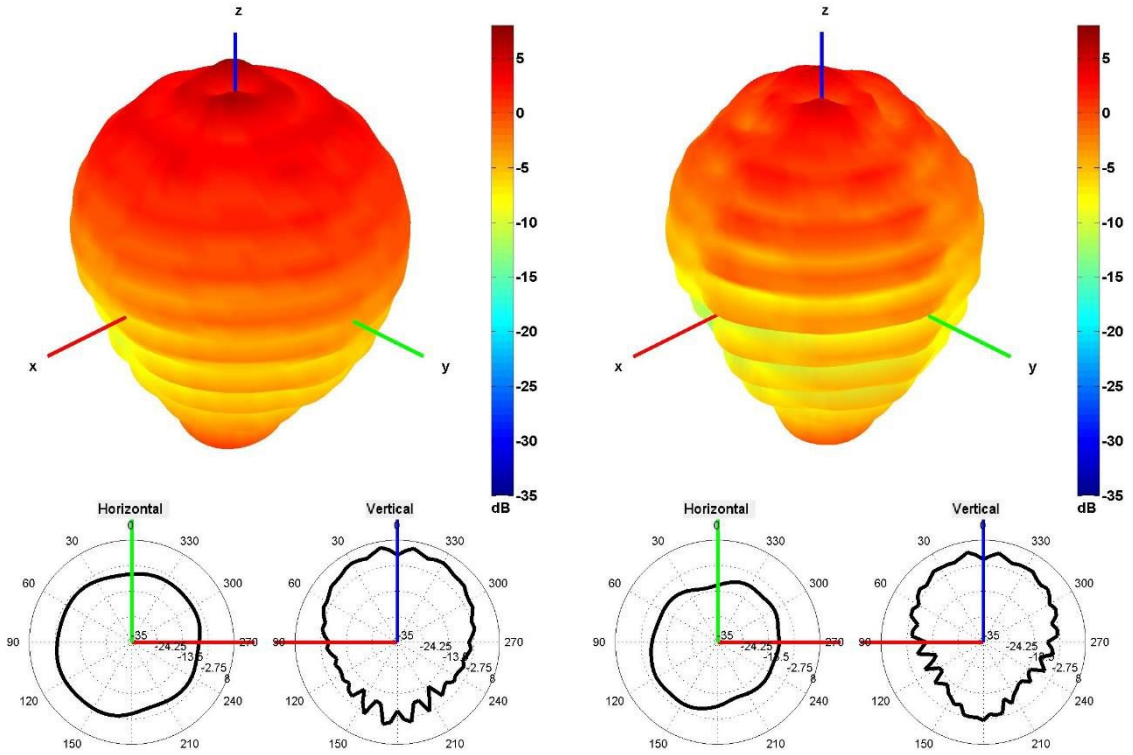
## 3. Antenna parameters



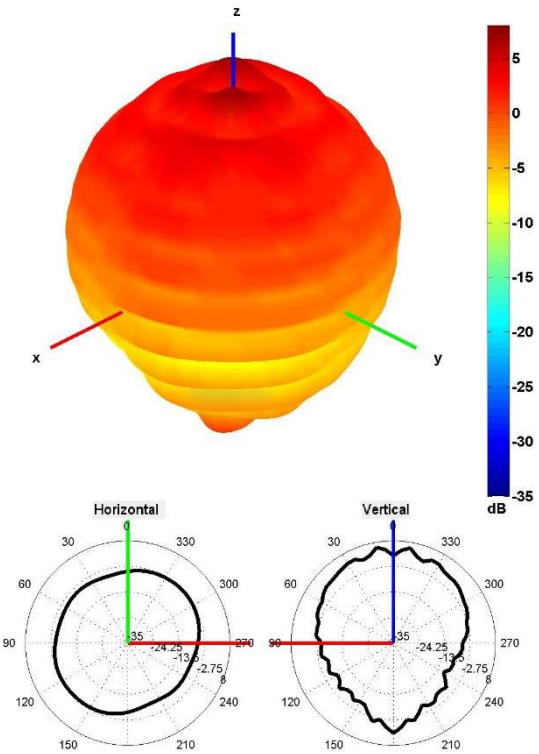

* Measured at 3 V




Radiation pattern reference

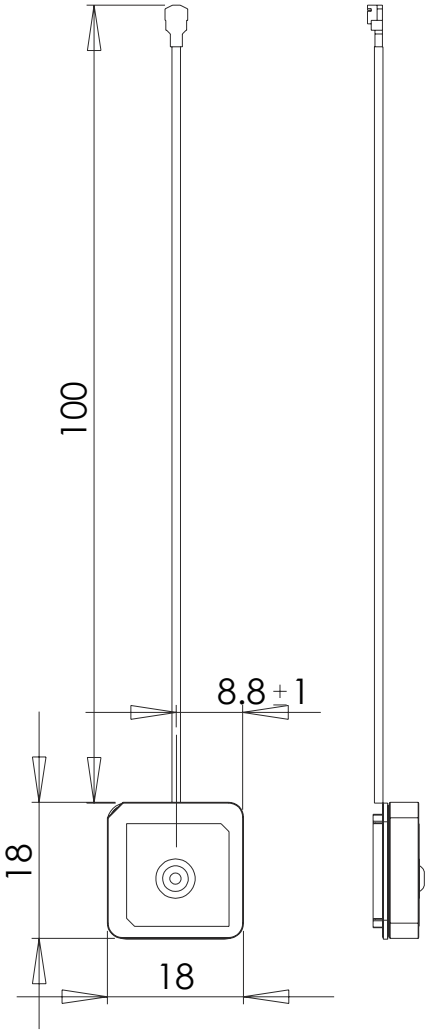


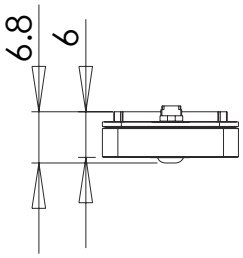

1561 and 1575 MHz Radiation pattern




1602 MHz Radiation pattern

## 4. Antenna drawings



## 5. Antenna Images

