

2J6901BC3F

GNSS/L1L5 Screw Mount

Key Features

GPS/GLONASS/BeiDou/QZSS/Galileo/
IRNSS/SBAS/L1L5

- 1176 and 1561-1606 MHz

High Precision Navigation

Screw Mount

Low Profile

28 dB Gain

Pre-Filter

Low Noise Figure

Low Power Consumption

Anti-Rotation Mechanism

Ground Plane Independent

Customizable Cable and Connector

Dimensions 80 × 74 × 25.6 mm

Certificates: IP67, IP69



1. Antenna and electrical specifications

Cable 1

Parameters	GNSS Active Antenna	
Technologies	GPS/Glonass/Beidou/QZSS/Galileo/IRNSS/SBAS/L1L5	
Bandwidth (MHz)	1176	1561-1606
Bands	L5	L1
Frequency (MHz)	1176.45	1561.09, 1575.42, 1602.00
Standards	GPS(L5), BeiDou(B2a), QZSS(L5), Galileo(E5a), IRNSS(L5)	GPS(L1C), GLONAS(L1OF), BeiDou(B1) QZSS(L1C), Galileo(E1), SBAS (L1)
Return Loss (dB)	~-12.8	~-12.6
VSWR	~1.8:1	~1.6:1
Efficiency (%)	~60.6	~68.6
Passive Peak Gain (dBi)	~3.1	~4.2
Average Gain (dB)	~-1.8	~-1.5
Impedance (Ohms)	50	
Radiation Pattern	Hemispherical	
Axial Ratio (dB)	3dB max	
Polarization	RHCP	
Voltage Range (V)	1.5 - 6	
Active Gain (dB)	28 @ 3V	
Noise Figure (dB)	1.6 @ 3V	
Current Consumption (mA)	16 @ 3V	
Power Consumption (mW)	48 @ 3V	
Saw Filter Type	Pre-Filter	
Out of Band Rejection (dB)	~40	
ESD Protection (kV)	2	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	LL100 Standard (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on Ground Plane of 30 x 30 cm

50 cm of Cable LL100

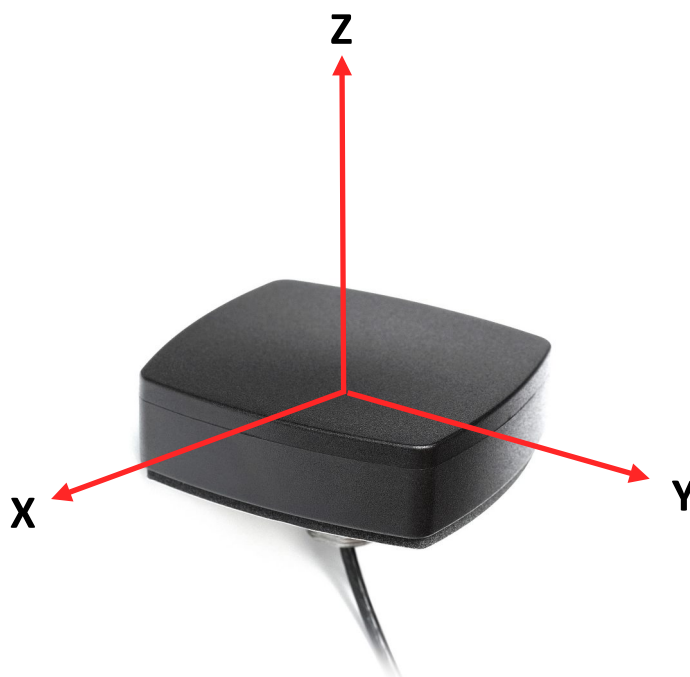
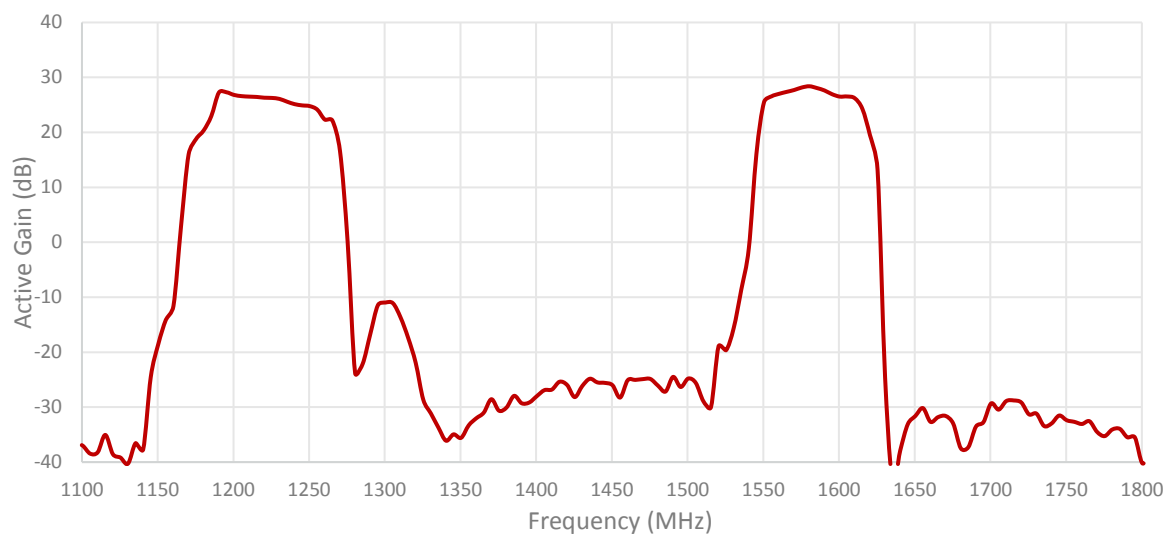
Measured in Certified CTIA 3D Anechoic Chamber

2. Mechanical and environmental specifications

Specifications	2J6901BC3F
Mounting Type	Screw Mount
Dimensions (mm)	80 × 74 × 25.6
Max. Tighten Torque (Nm)	5 Nm
Radome Type	ASA UV Stable
Radome Color	Black, White
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

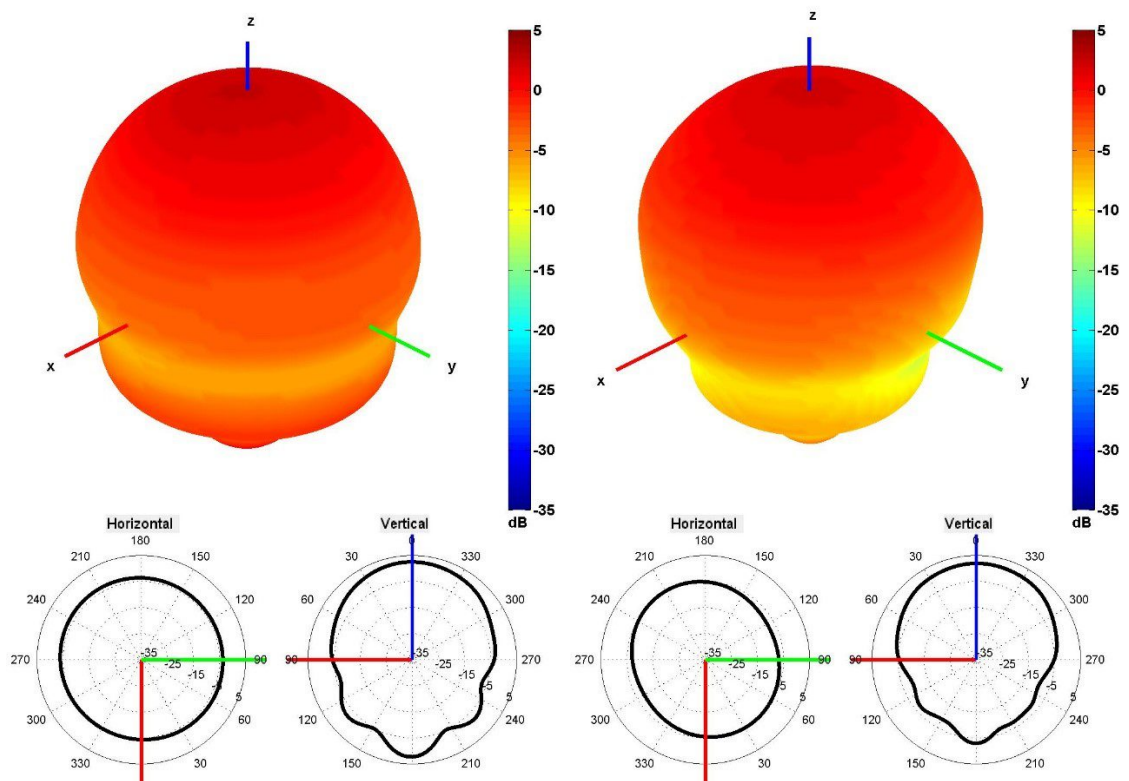
3. Antenna parameters

Cable 1: GNSS/L1L5

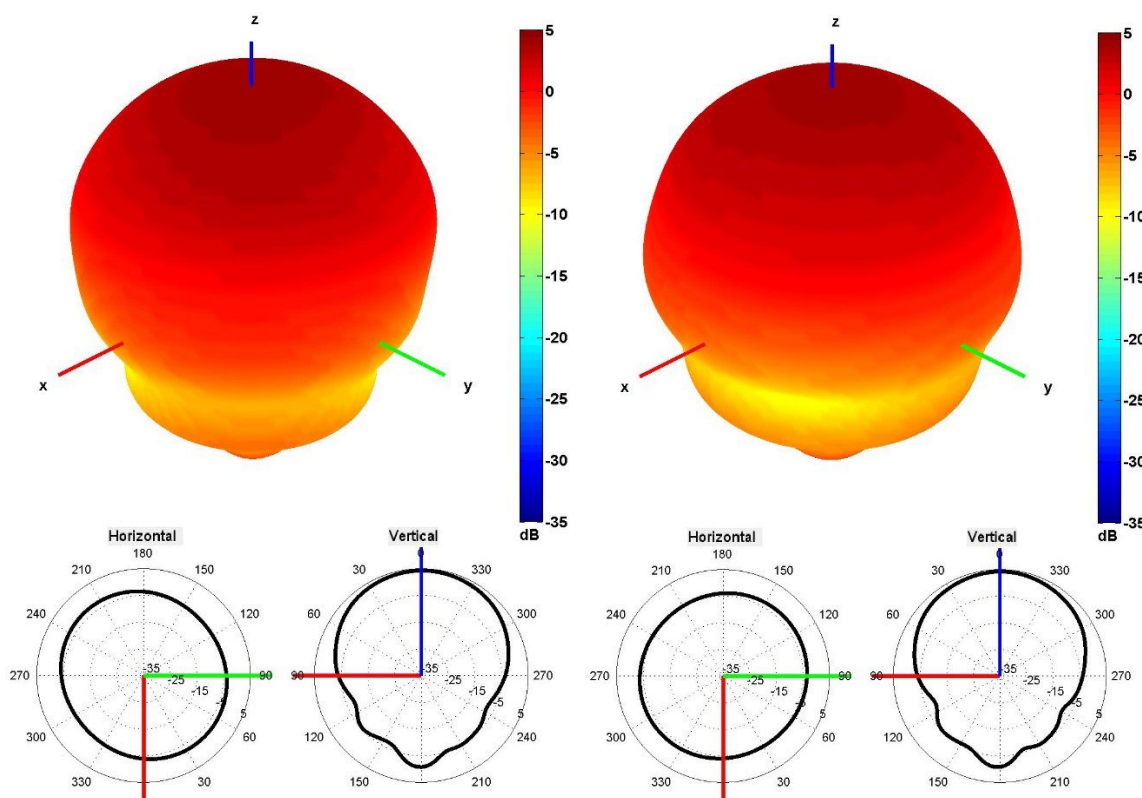


Radiation pattern reference

Cable 1: GNSS/L1L5

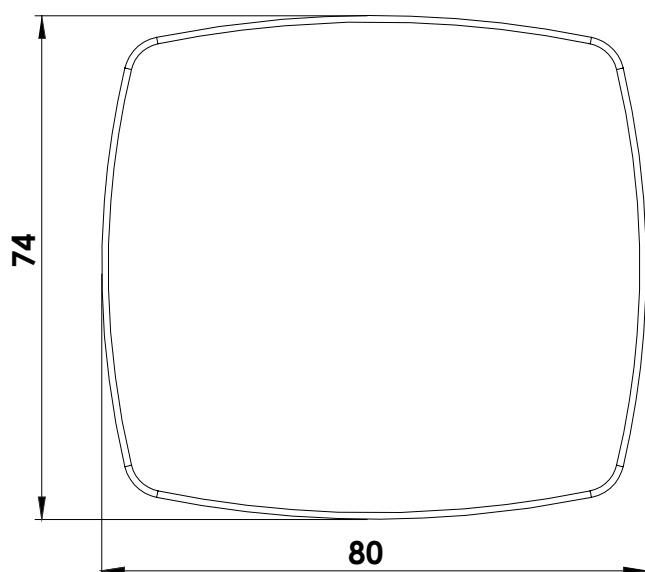
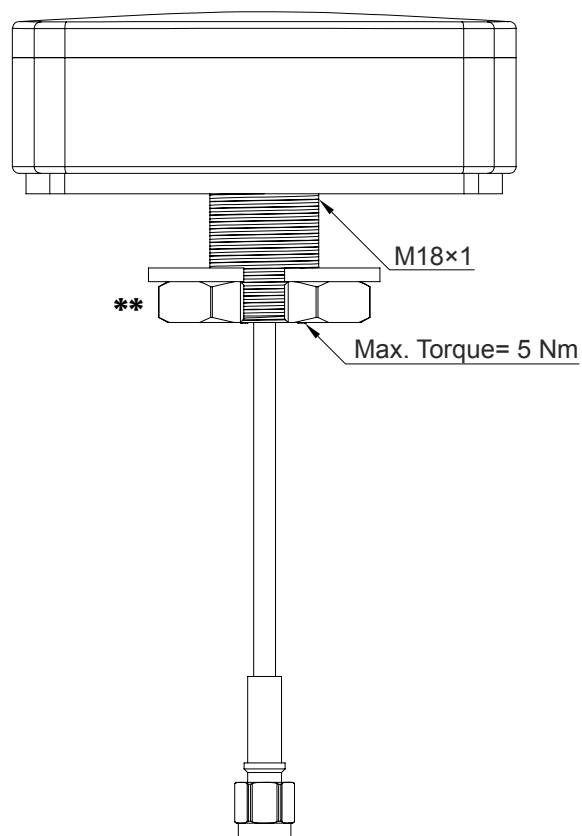
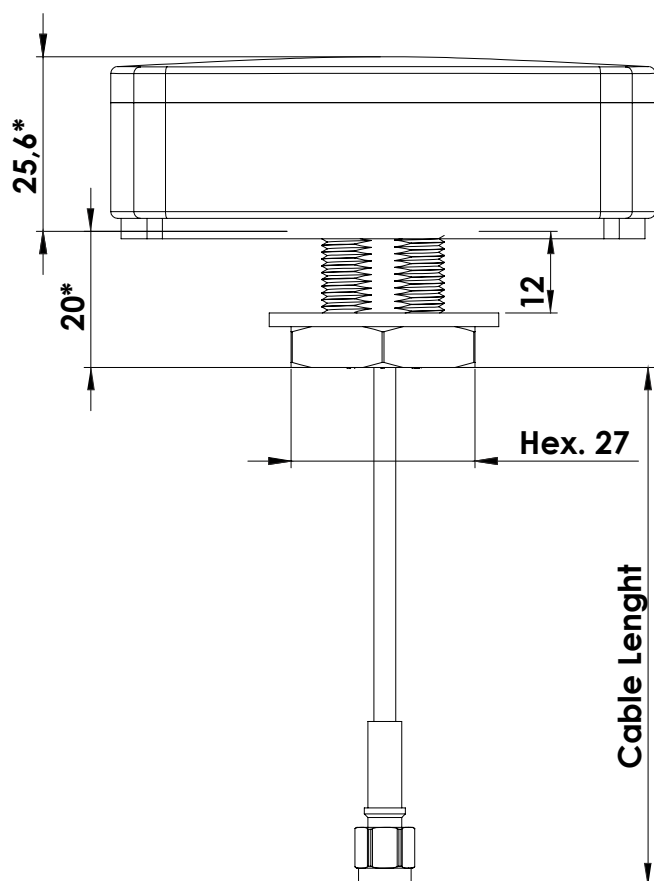


1176 AND 1561 MHz Radiation pattern

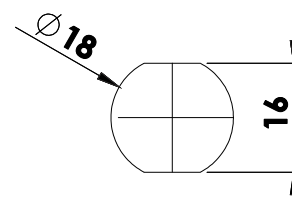


1575 AND 1602 MHz Radiation pattern

4. Antenna drawings



Mounting hole



Max. mounting thickness 12mm
Note: Dimensions are in millimeters
*Dimensions are after mounting
**Max. Torque= 5 Nm

5. Antenna Images

