

2JM3201C5F

GNSS/L1L2L5 Ceramic Active Antenna

Key Features

GPS/GLONASS/BeiDou/QZSS/Galileo/
IRNSS/SBAS/L1L2L5

- 1176, 1227 and 1561-1606 MHz

High Precision Navigation

28 dB Gain

Pre-Filter

Low Noise Figure

Low Power Consumption

Customizable Cable and Connector

Dimensions 25 × 25 × 12 mm



1. Antenna and electrical specifications

Cable 1

Parameters	GNSS Active Antenna		
Technologies	GPS/Glonass/Beidou/QZSS/Galileo/IRNSS/SBAS/L1L2L5		
Bandwidth (MHz)	1176	1227	1561-1606
Bands	L5	L2	L1
Frequency (MHz)	1176.45	1227.6	1561.09, 1575.42, 1602.00
Standards	GPS(L5), BeiDou(B2a), QZSS(L5), Galileo(E5a), IRNSS(L5)	GPS(L2C), QZSS(L2C)	GPS(L1C), GLONAS(L1OF), BeiDou(B1) QZSS(L1C), Galileo(E1), SBAS (L1)
Return Loss (dB)	~-11.3	~-11.1	~-16.4
VSWR	~2.1:1	~1.8:1	~ 1.4:1
Passive Peak Gain (dBi)	~4.2	~3.2	~1.9
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	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)		

Antenna Measurement Conditions:

Free Space

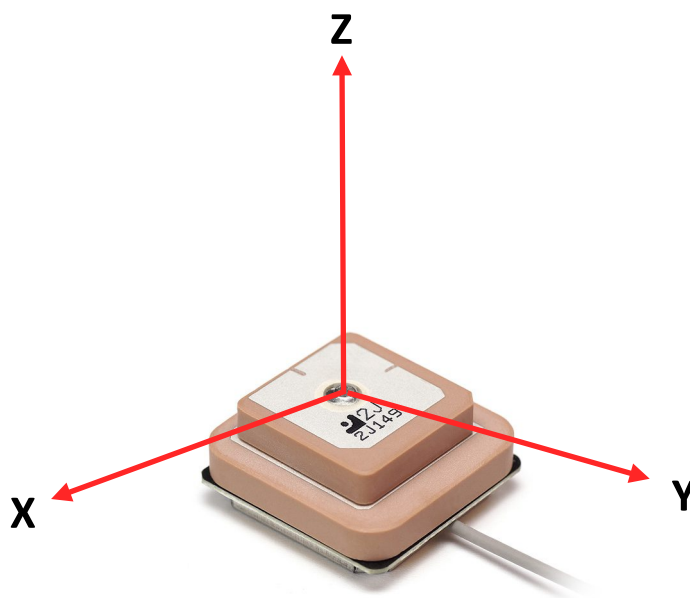
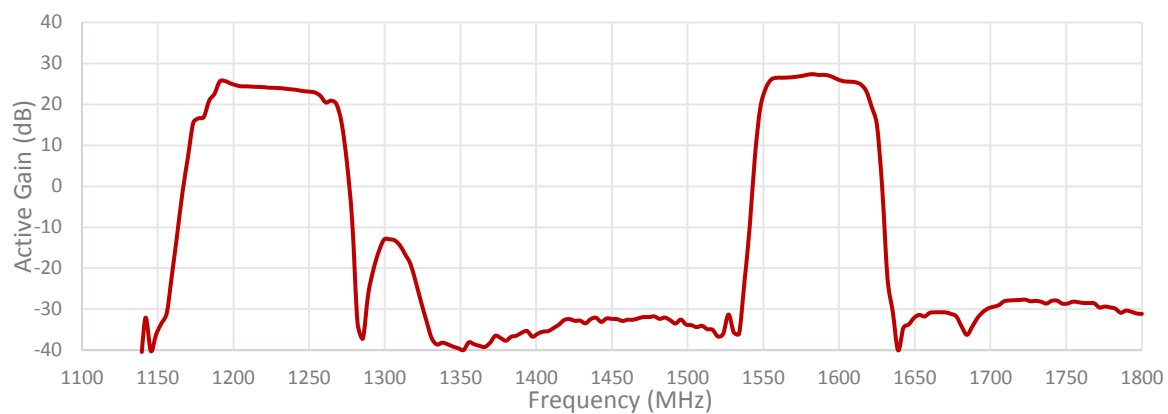
Measured in Certified CTIA 3D Anechoic Chamber

2. Mechanical and environmental specifications

Specifications	2JM3201C5F
Dimensions (mm)	25 × 25 × 12
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

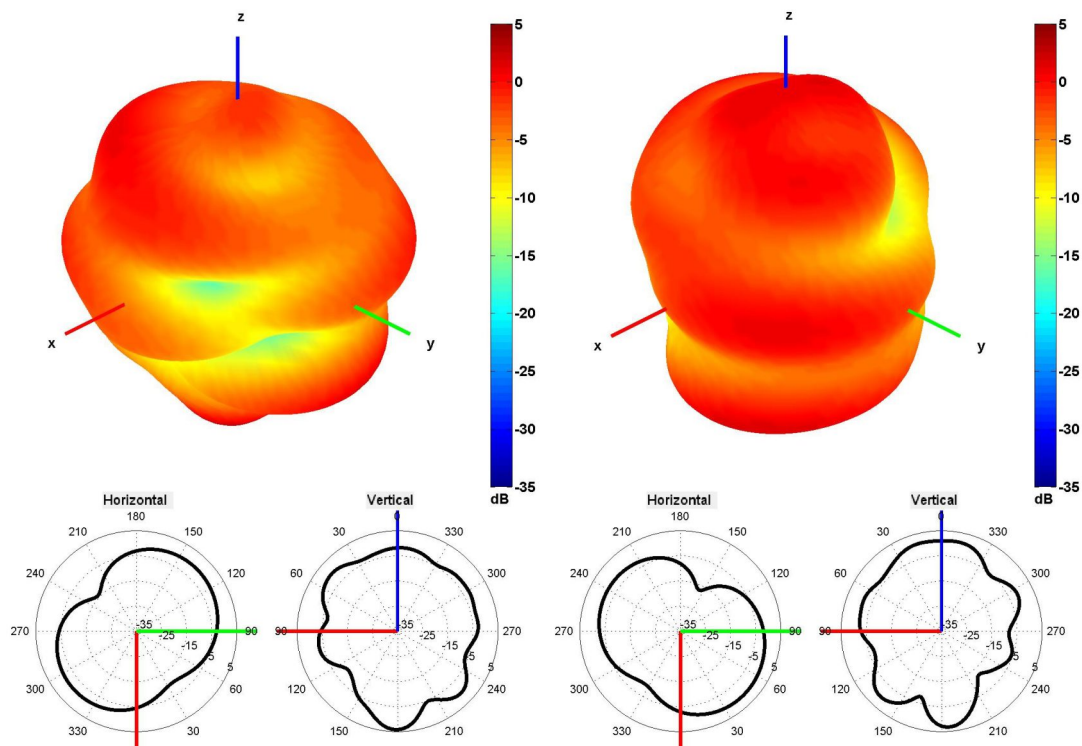
3. Antenna parameters

Cable 1: GNSS/L1L2L5

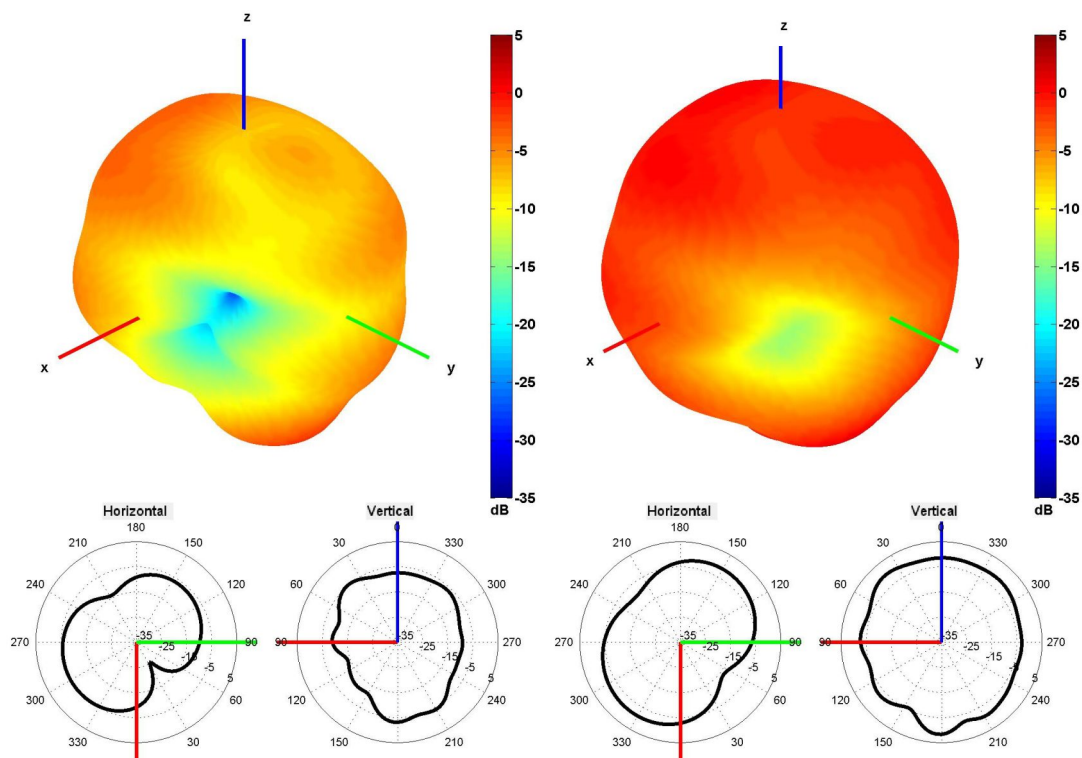


Radiation pattern reference

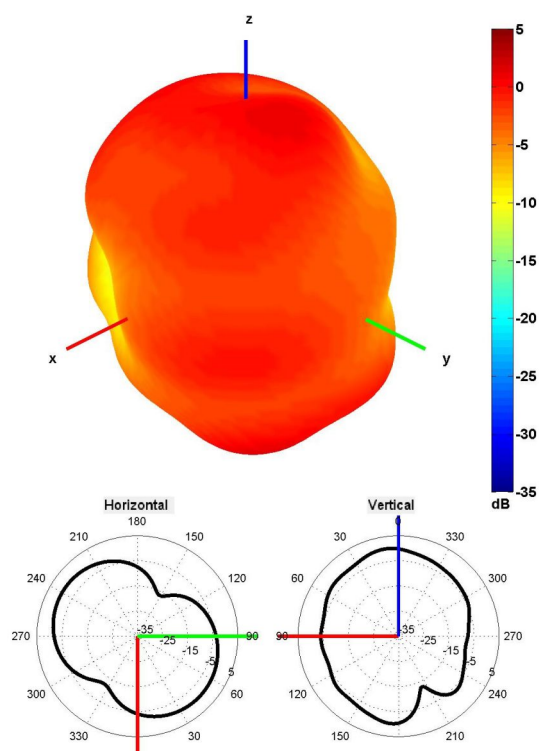
Cable 1: GNSS/L1L2L5



1176 AND 1227 MHz Radiation pattern

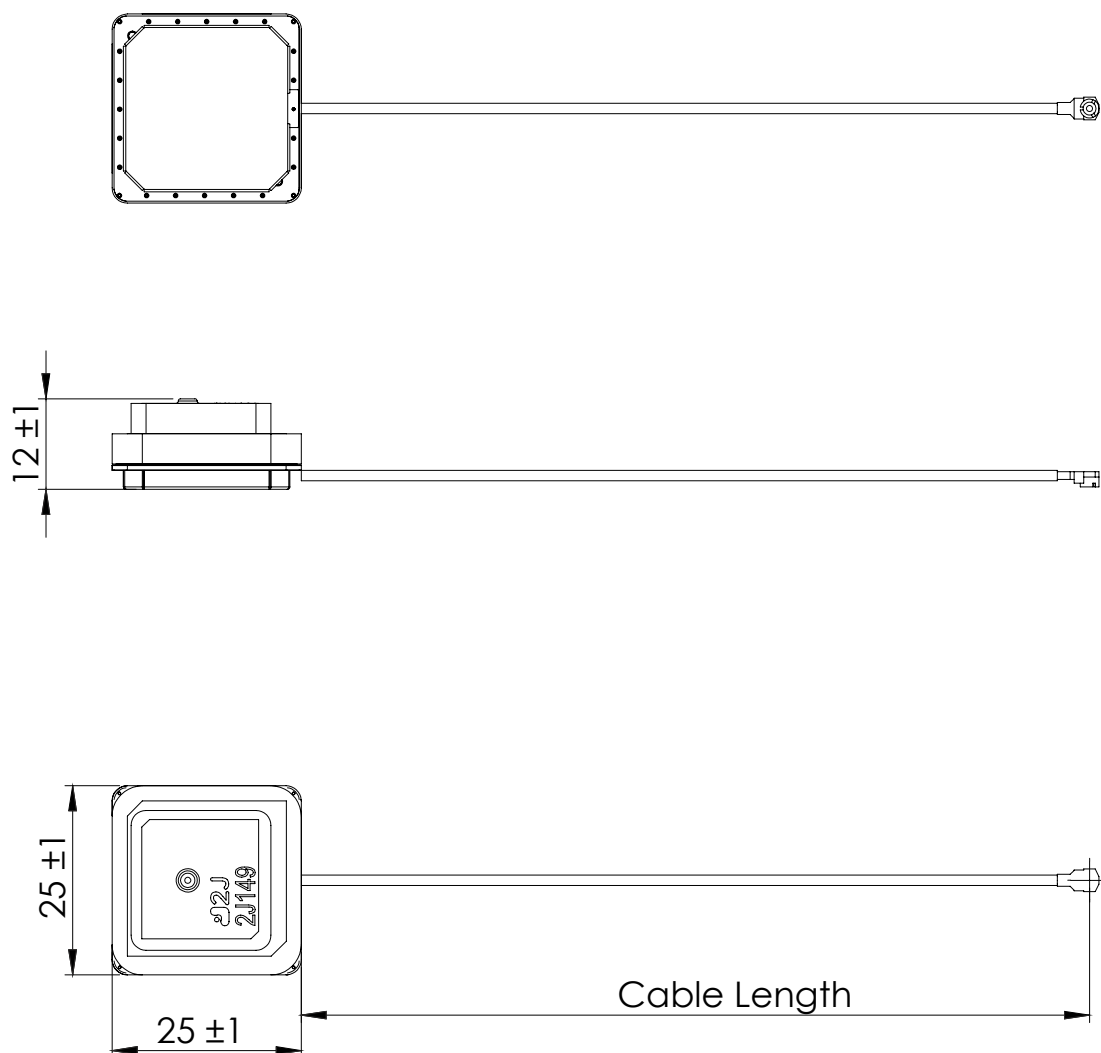


1561 AND 1575 MHz Radiation pattern



1600 MHz Radiation pattern

4. Antenna drawings



*** Dimensions in millimeters**

5. Antenna Images

