antenna conceptor

Product Datasheet

2JM3201C2F

GNSS/L1L2 Ceramic Active Antenna

Key Features

GPS/GLONASS/BeiDou/QZSS/Galileo/ SBAS/RTK/L1L2
- 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/SBAS/RTK/L1L2	
Bandwidth (MHz)	1227	1561-1606
Bands	L2	L1
Frequency (MHz)	1227.6	1561.09, 1575.42, 1602.00
Standards	GPS(L2C), QZSS(L2C)	GPS(L1C), GLONAS(L1OF), BeiDou(B1) QZSS(L1C), Galileo(E1), SBAS (L1)
Return Loss (dB)	~-15.0	~-10.4
VSWR	~1.6:1	~1.8:1
Passive Peak Gain (dBi)	~1.7	~3.6
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

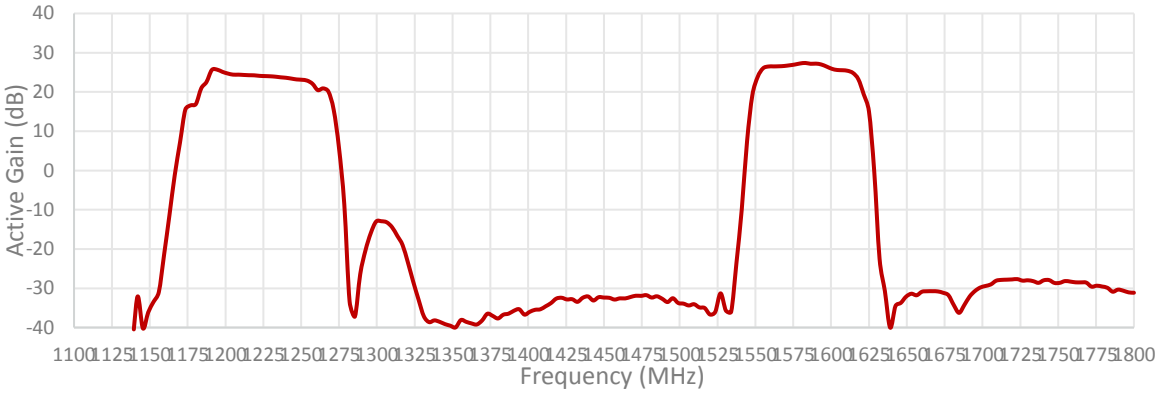
Measured in Certified CTIA 3D Anechoic Chamber

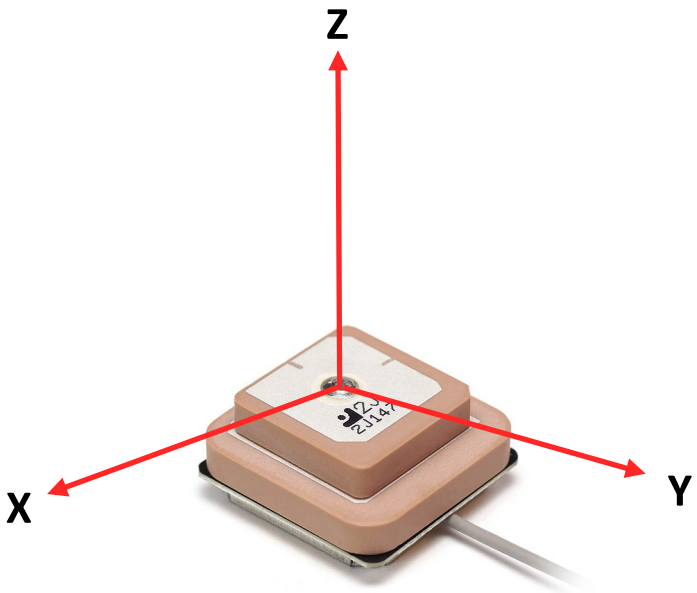
2. Mechanical and environmental specifications

Specifications	2JM3201C2F
Dimensions (mm)	25 × 25 × 12
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

3. Antenna parameters

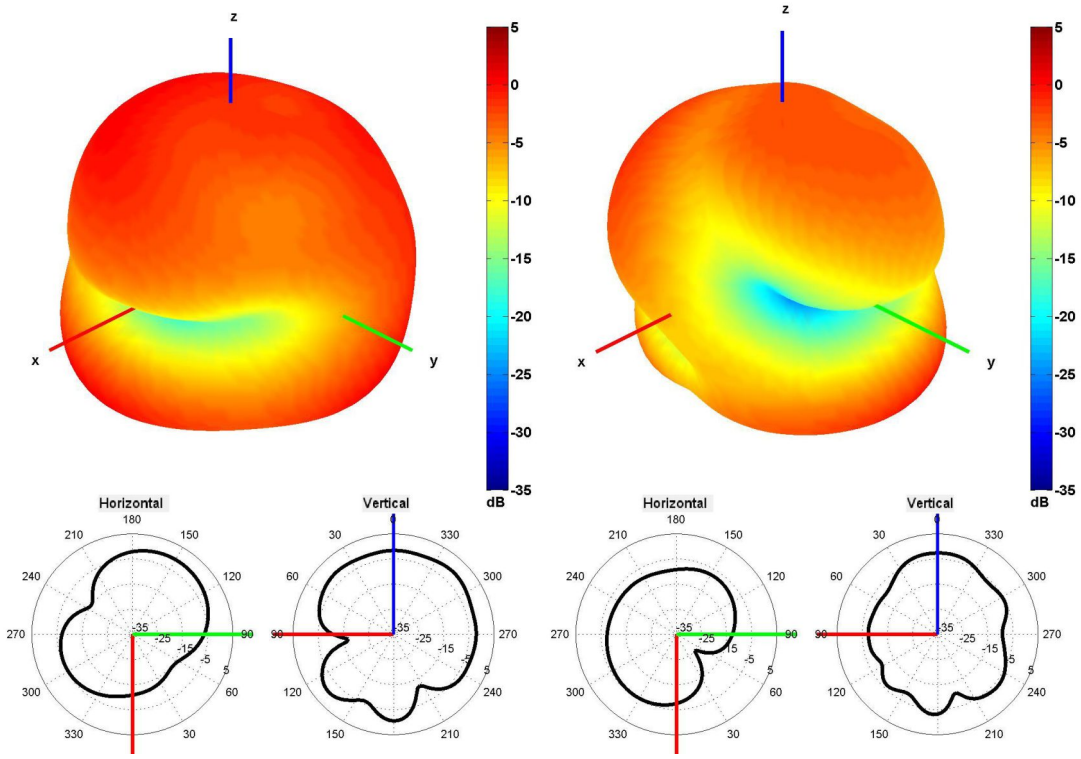
Cable 1: GNSS/L1L2



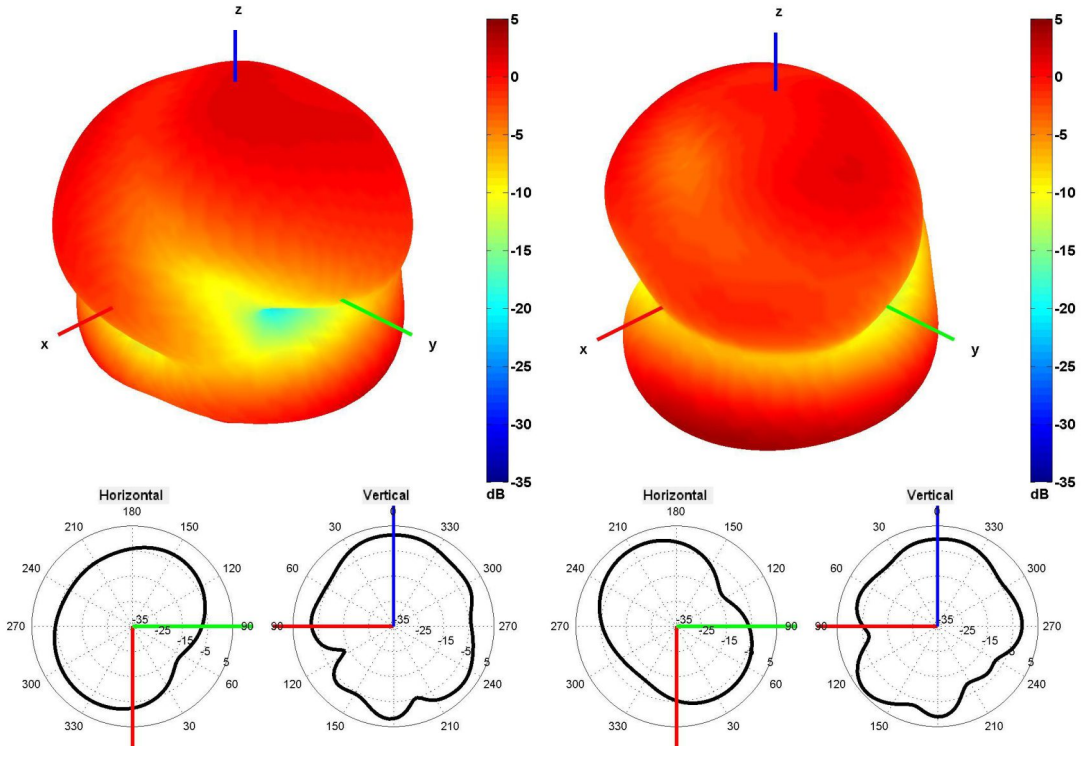


Radiation pattern reference

Cable 1: GNSS/L1L2

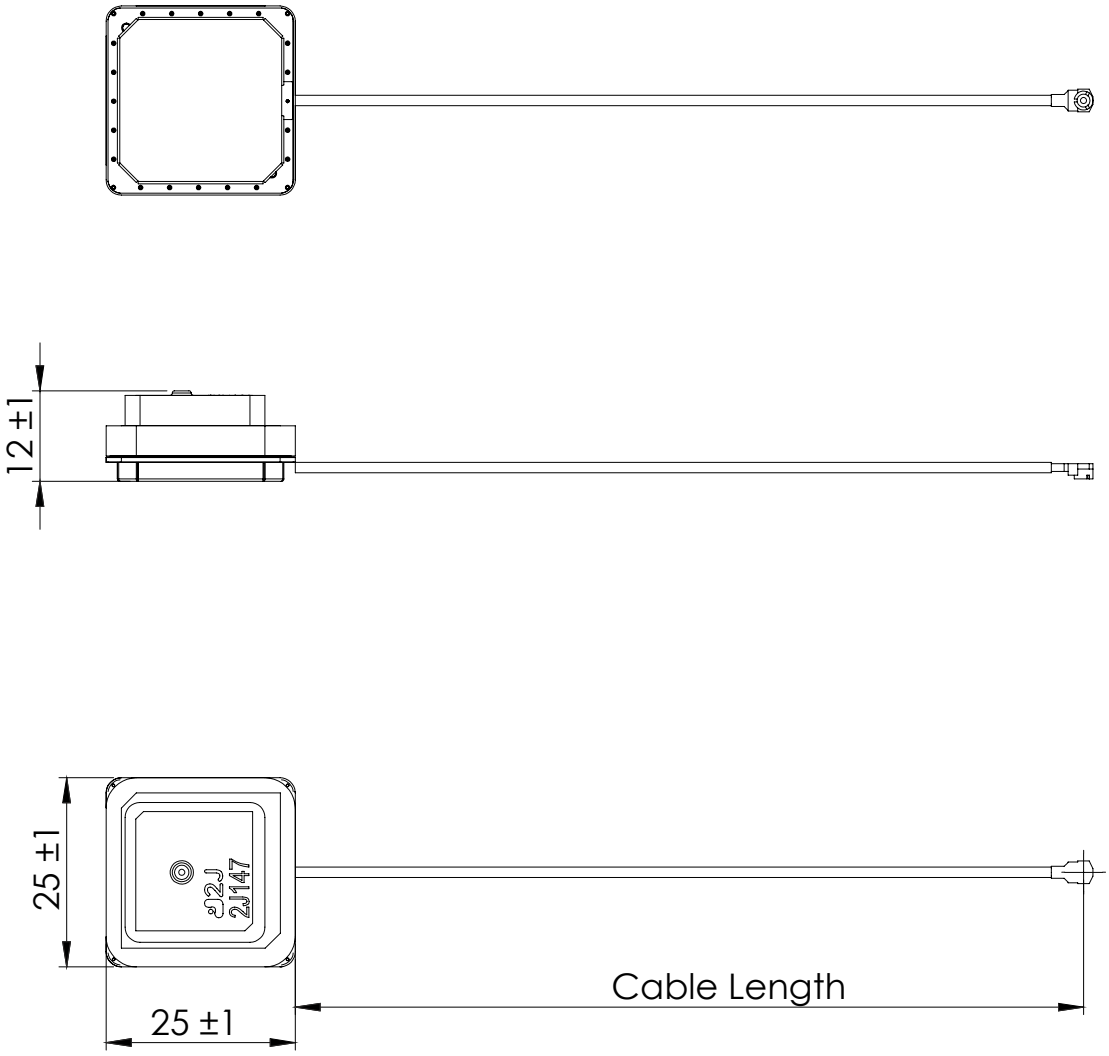


1227 AND 1561 MHz Radiation pattern



1575 AND 1602 MHz Radiation pattern

4. Antenna drawings



*** Dimensions in millimeters**

5. Antenna Images



