antenna conceptor

Product Datasheet

2JCP2540101a

GNSS Ceramic Thru-Hole Mount

Key Features

GPS/QZSS/Galileo
- 1575 MHz
Thru-Hole Mount
High Gain
Ground Plane Independent
Dimensions 25 x 25 x 4 mm
Please check our Development Kit
2JDK0201a-A28



1. Antenna and electrical specifications

Parameters	GNSS Ceramic Thru-Hole Mount Antenna
Standards	GPS/QZSS/Galileo
Bands (MHz)	1575
Frequency (MHz)	1575.42
Return Loss (dB)	~-25.0
VSWR	~1.1:1
Efficiency (%)	~69
Peak Gain (dBiC)	~3.9
Average Gain (dB)	~-1.6
Impendance (Ohms)	50
Radiation Pattern	Hemispherical
Axial Ratio (dB)	3 max
Polarization	RHCP

Antenna Measurement Conditions:

Free Space

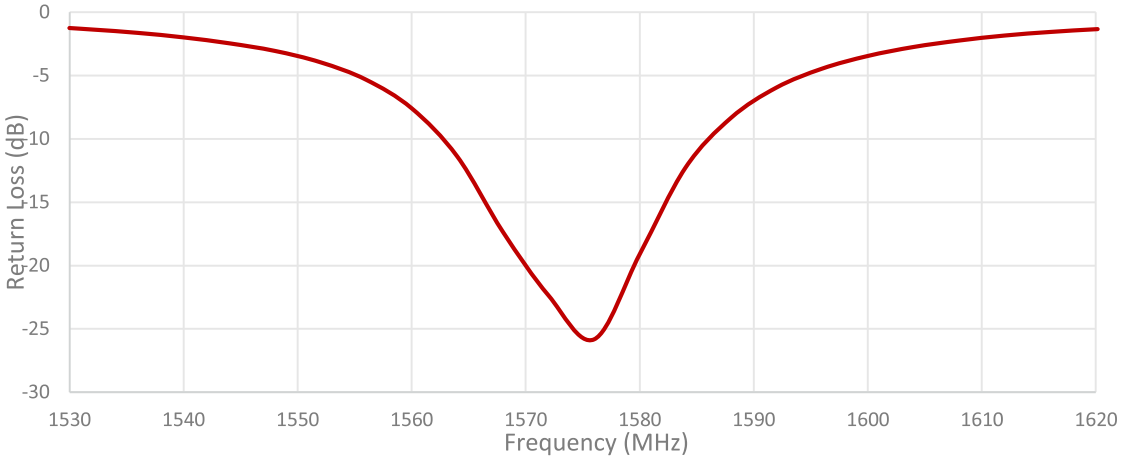
Mounted on Ground Plane of 70 x 70 mm

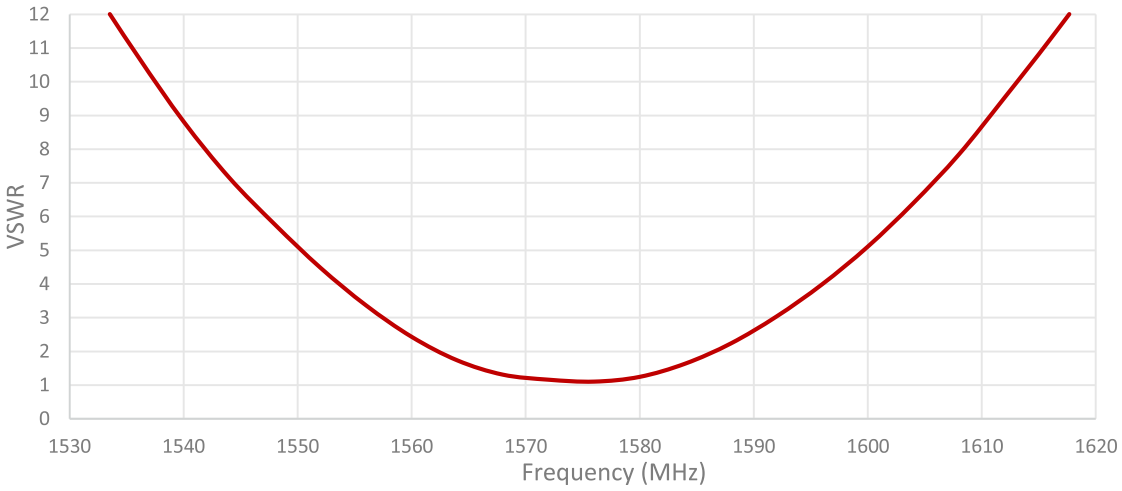
Measured in Certified CTIA 3D Anechoic Chamber

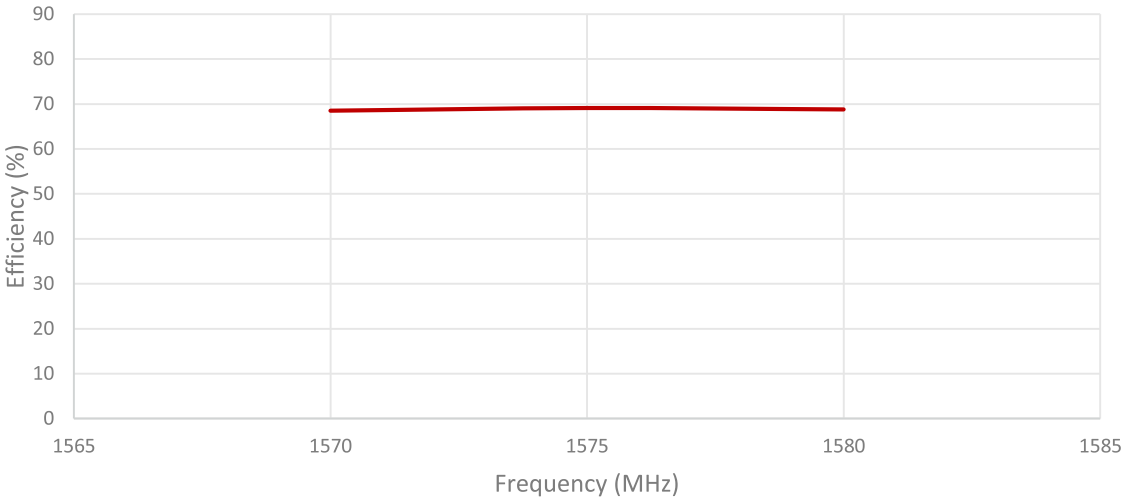
2. Mechanical and environmental specifications

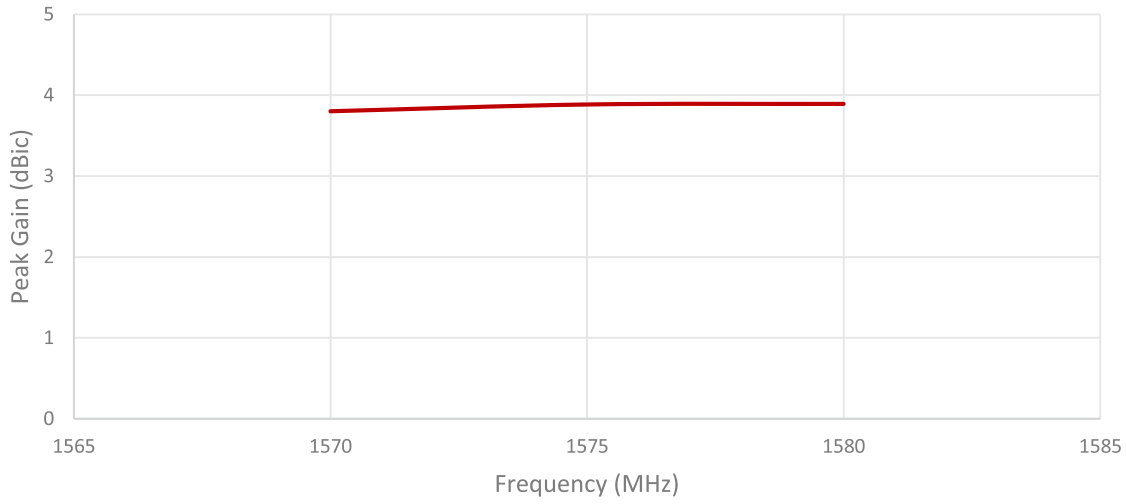
Specifications	2JCP2540101a
Mounting Type	Thru-Hole Mount
Adhesive	Nitto 5000NS
Dimensions (mm)	25 x 25 x 4
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

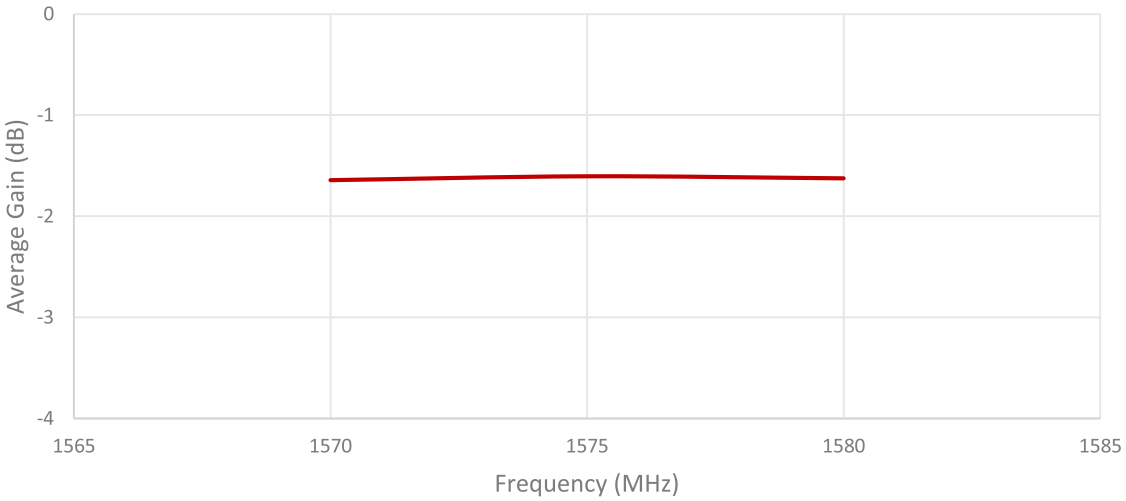
3. Antenna parameters

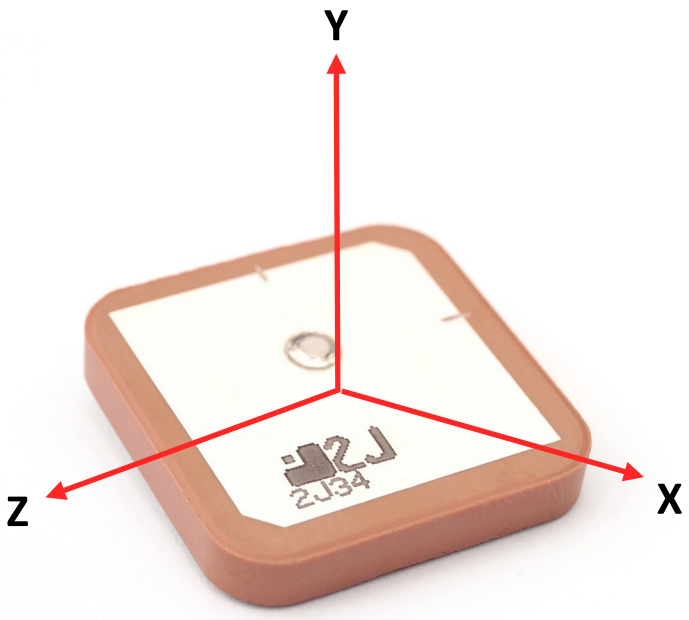




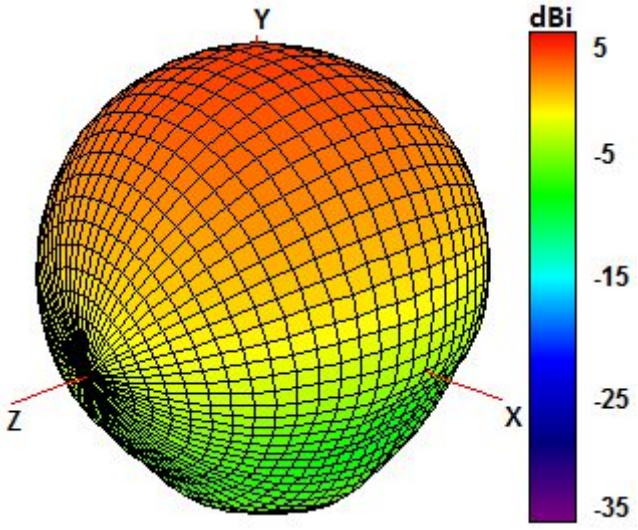

90
80
70
60
50
40
30
20
10
0
Efficiency (%)
1565
1570
1575
1580
1585
Frequency (MHz)


5
4
3
2
1
0
Peak Gain (dBic)
1565
1570
1575
1580
1585
Frequency (MHz)





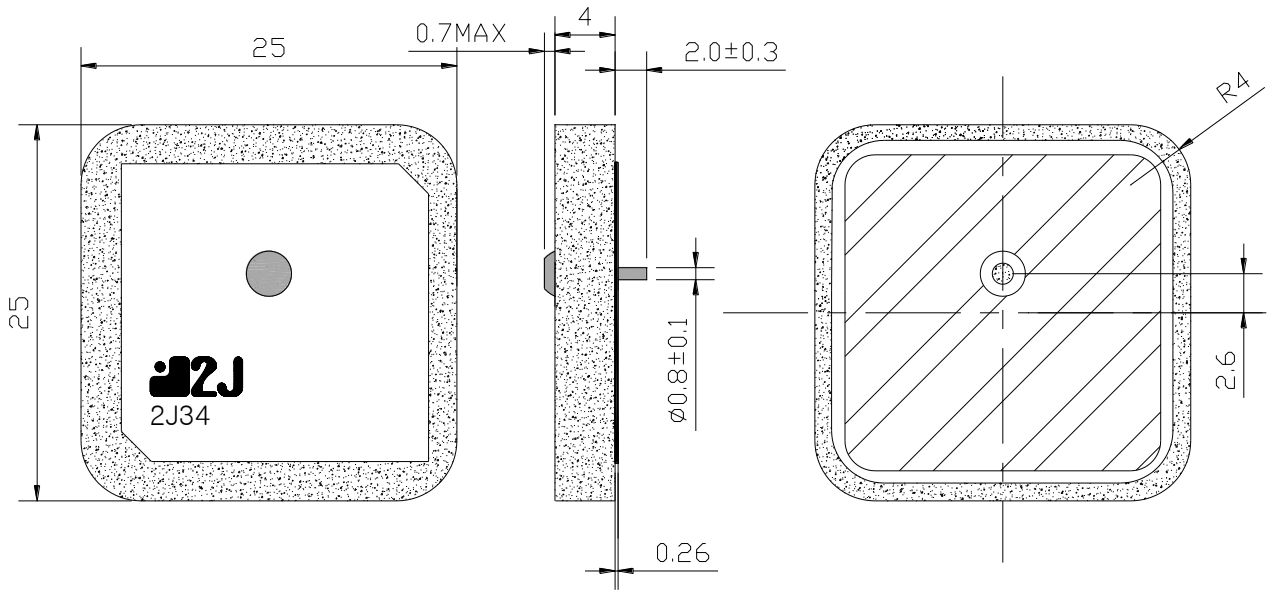
Radiation pattern reference



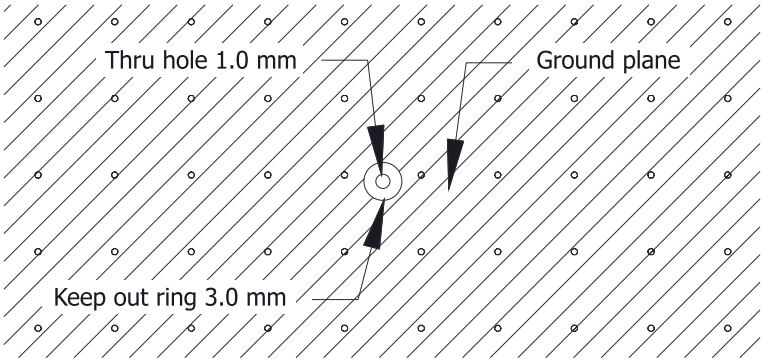
1575 MHz Radiation pattern

4. Antenna drawings

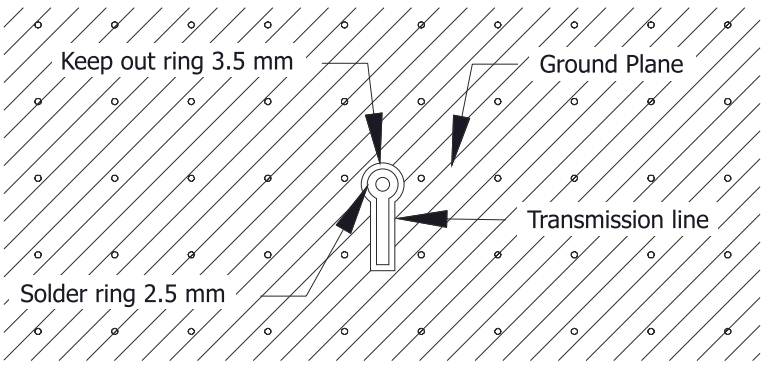
Patch Dimensions



Layout for top layer



Layout for bottom layer



5. Antenna Images

