antenna conceptor

Product Datasheet

2JCP3640101Ca

GNSS Ceramic Thru-Hole Mount



Key Features

GPS/GLONASS/BeiDou/QZSS/Galileo - 1561-1606 MHz
Thru-Hole Mount
High Gain
Ground Plane Dependent
Dimensions 36 x 36 x 4 mm
Please check our Development Kit
2JDK0301Ca-A28

1. Antenna and electrical specifications

Parameters	GNSS Ceramic Thru-Hole Mount Antenna		
Standards	BeiDou	GPS/QZSS/Galileo	GLONASS
Bands (MHz)	1561	1575	1602
Frequency (MHz)	1561.098	1575.42	1598-1606
Return Loss (dB)	~-13.0	~-15.0	~-19.1
VSWR	~1.6:1	~1.4:1	~1.3:1
Efficiency (%)	~73	~69	~71
Peak Gain (dBi)	~4.0	~3.8	~4.1
Average Gain (dB)	~-1.3	~-1.6	~-1.4
Impendance (Ohms)		50	
Radiation Pattern		Hemispherical	
Polarization		RHCP	

Antenna Measurement Conditions:

Free Space

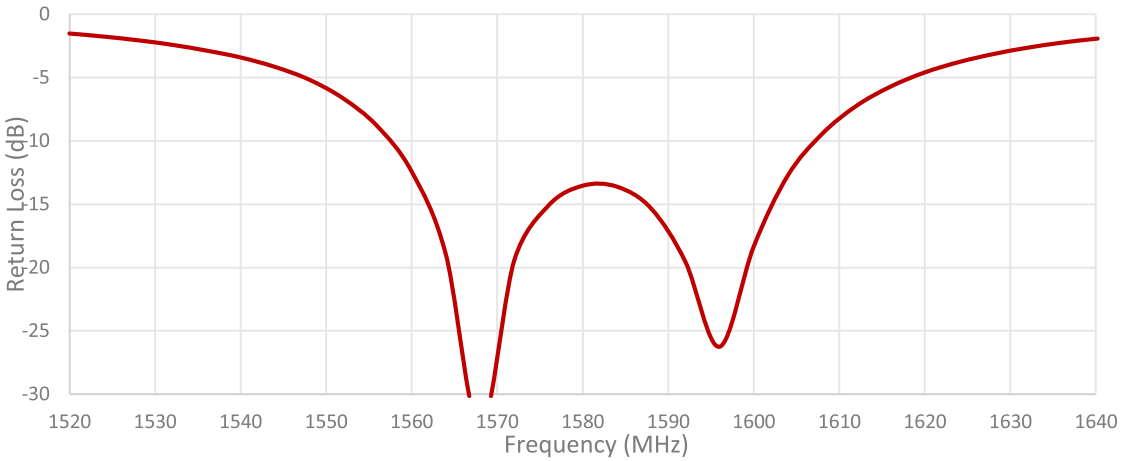
Mounted on Ground Plane of 70 x 70 mm

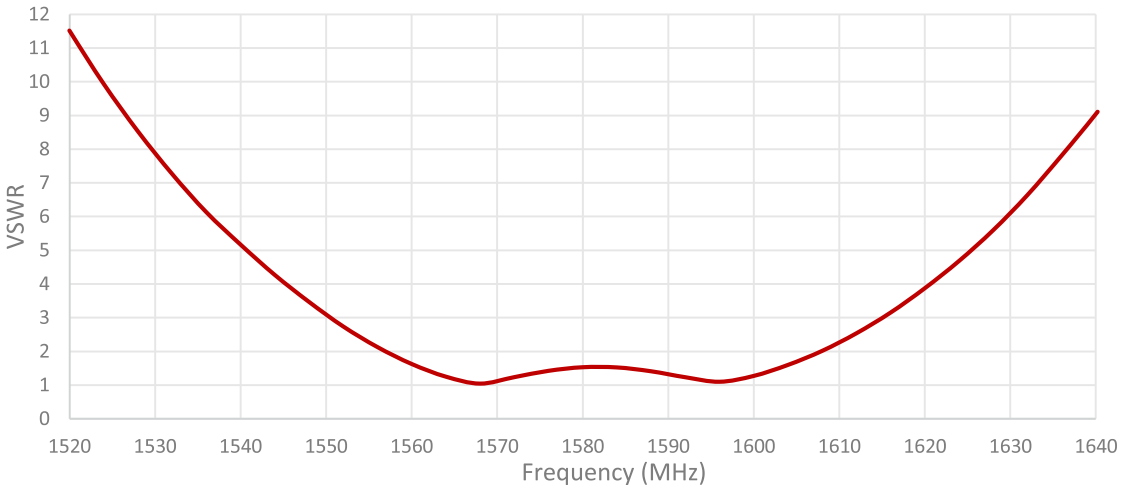
Measured in Certified CTIA 3D Anechoic Chamber

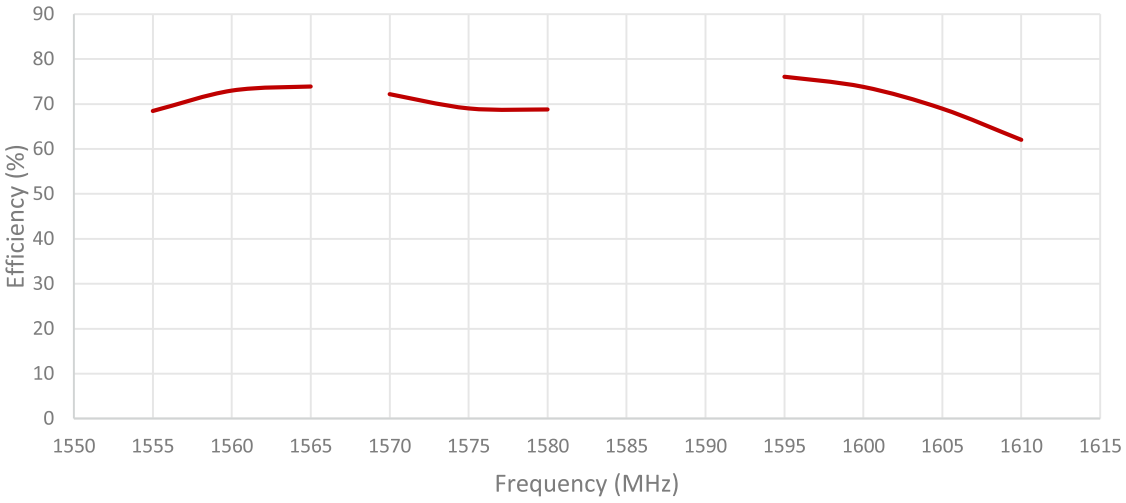
2. Mechanical and environmental specifications

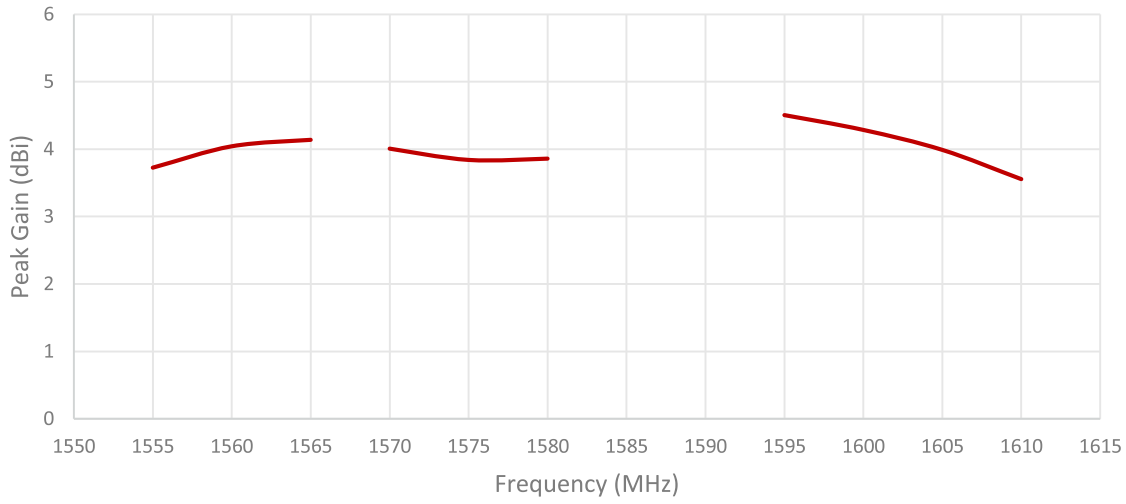
Specifications	2JCP3640101Ca
Mounting Type	Thru-Hole Mount
Adhesive	Nitto 5000NS
Dimensions (mm)	36 x 36 x 4
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

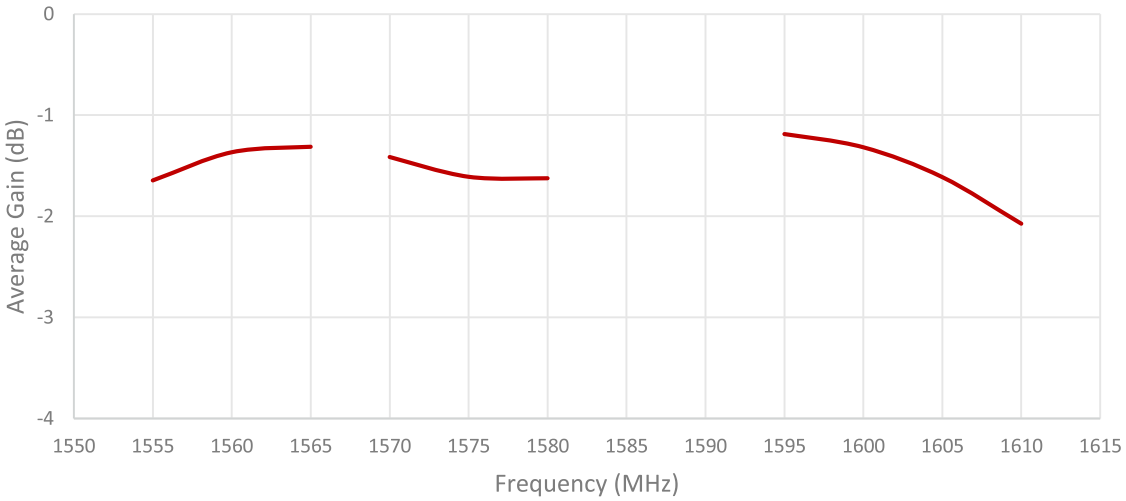
3. Antenna parameters





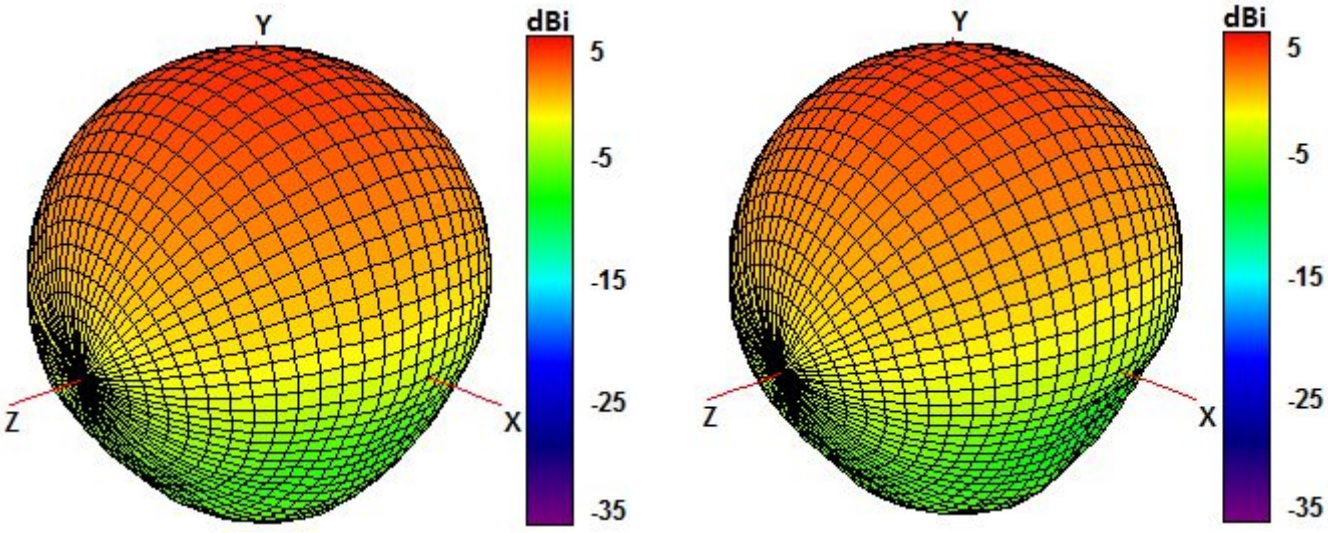

90
80
70
60
50
40
30
20
10
0
Efficiency (%)
1550
1555
1560
1565
1570
1575
1580
1585
1590
1595
1600
1605
1610
1615
Frequency (MHz)


6
5
4
3
2
1
0
Peak Gain (dBi)
1550
1555
1560
1565
1570
1575
1580
1585
1590
1595
1600
1605
1610
1615
Frequency (MHz)

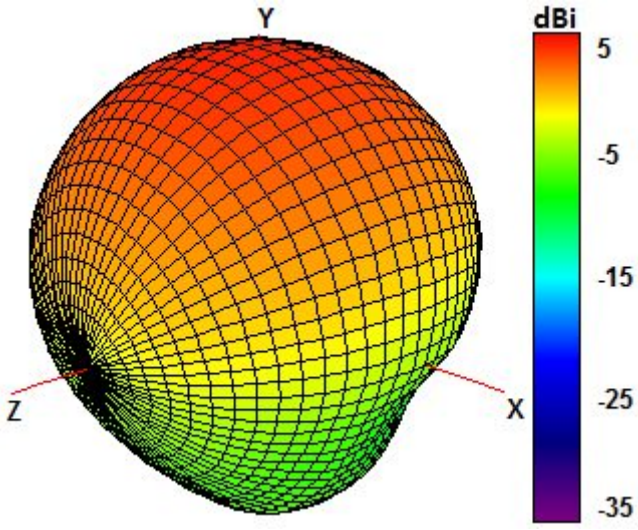




Radiation pattern reference



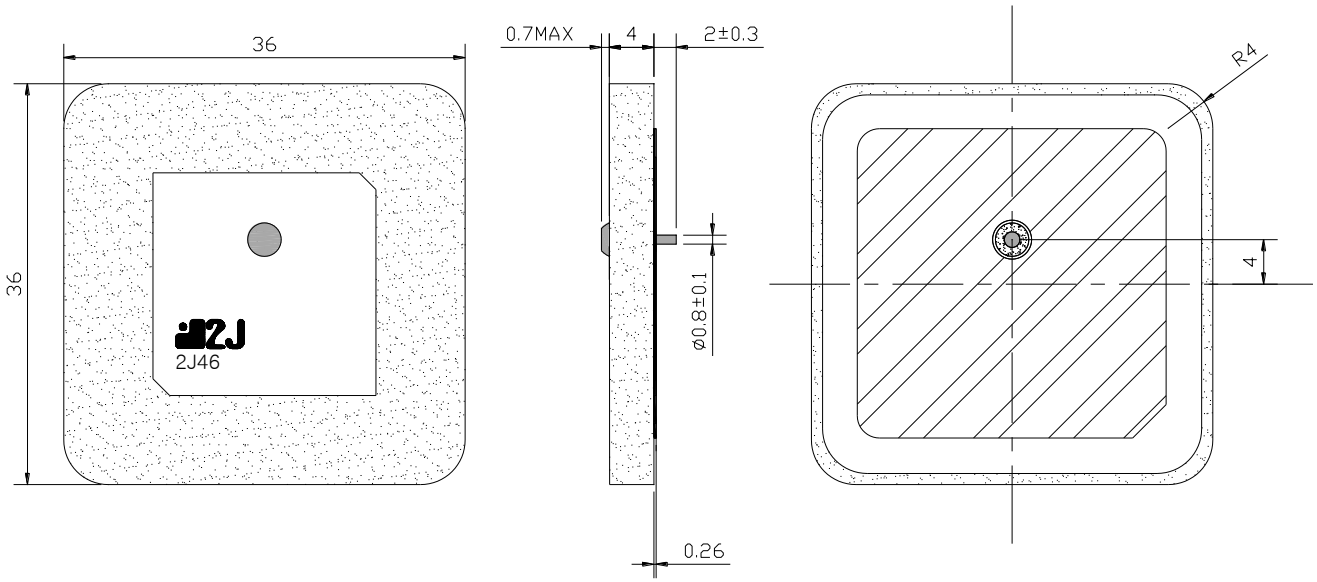
1561 AND 1575 MHz RADIATION PATTERN



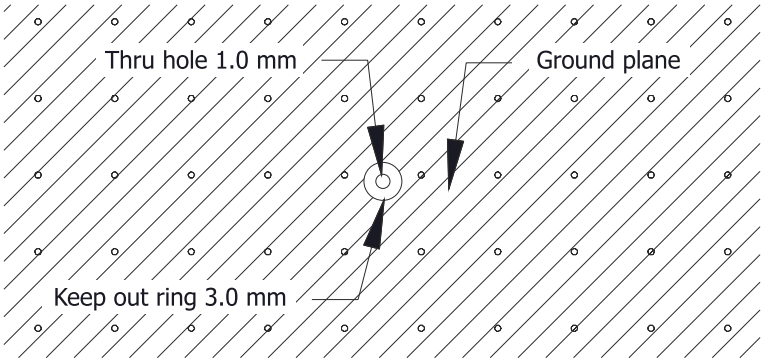
1602 MHz RADIATION PATTERN

4. Antenna drawings

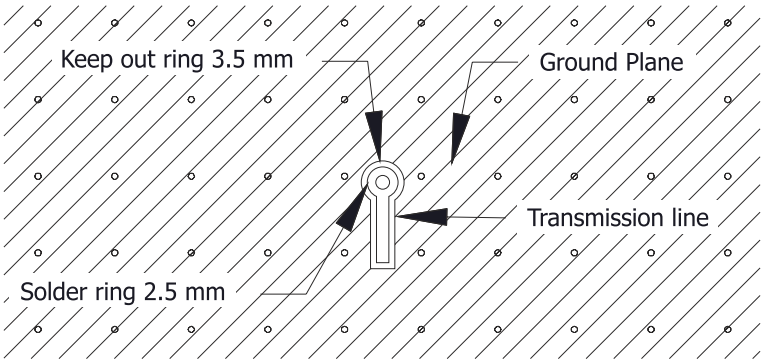
Patch Dimensions



Layout for top layer



Layout for bottom layer



5. Antenna Images

