

2JCP1820101Da

GNSS Ceramic Thru-Hole Mount

Key Features

GPS/BeiDou/Galileo

- 1561-1575 MHz

Thru-Hole Mount

High Efficiency

Ground Plane Dependent

Right Hand Circular Polarisation (RHCP)

Dimensions 18.5 x 18.5 x 2 mm



1. Antenna and electrical specifications

Parameters	GNSS Ceramic Thru-Hole Mount Passive Antenna	
	BeiDou (B1)	GPS (L1C), QZSS (L1C), Galileo (E1), SBAS (L1)
Standards		
Bands (MHz)	1561	1575
Frequency (MHz)	1561.09	1575.42
Return Loss (dB)	-18.4	-16.3
VSWR	1.3:1	1.4
Efficiency (%)	63.1	64.0
Peak Gain (dBiC)	3.6	4.0
Average Gain (dB)	-2.0	-1.9
Impedance (Ohms)	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	

Antenna Measurement Conditions:

Free Space

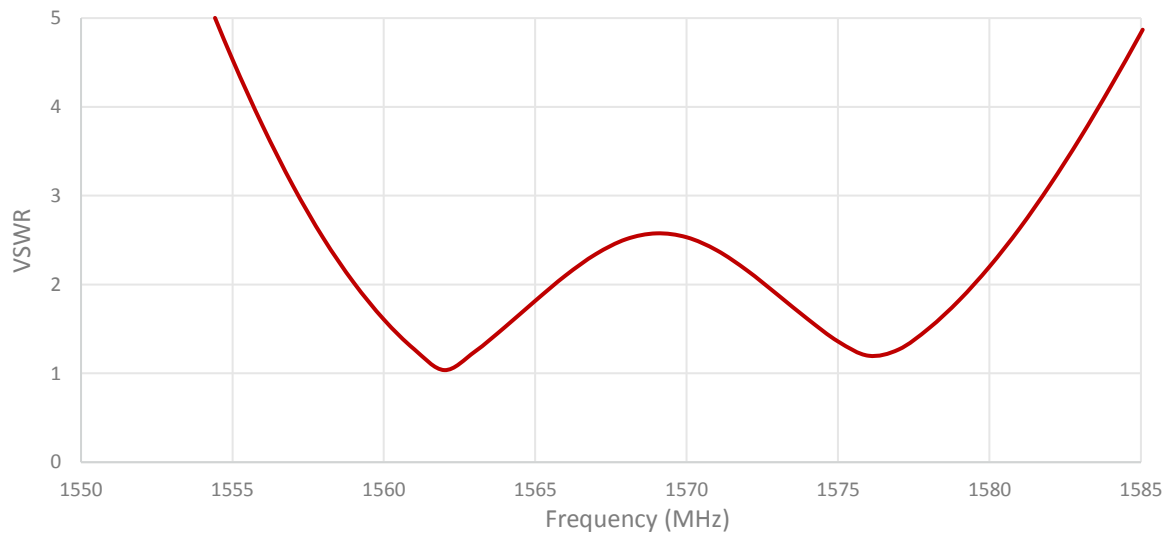
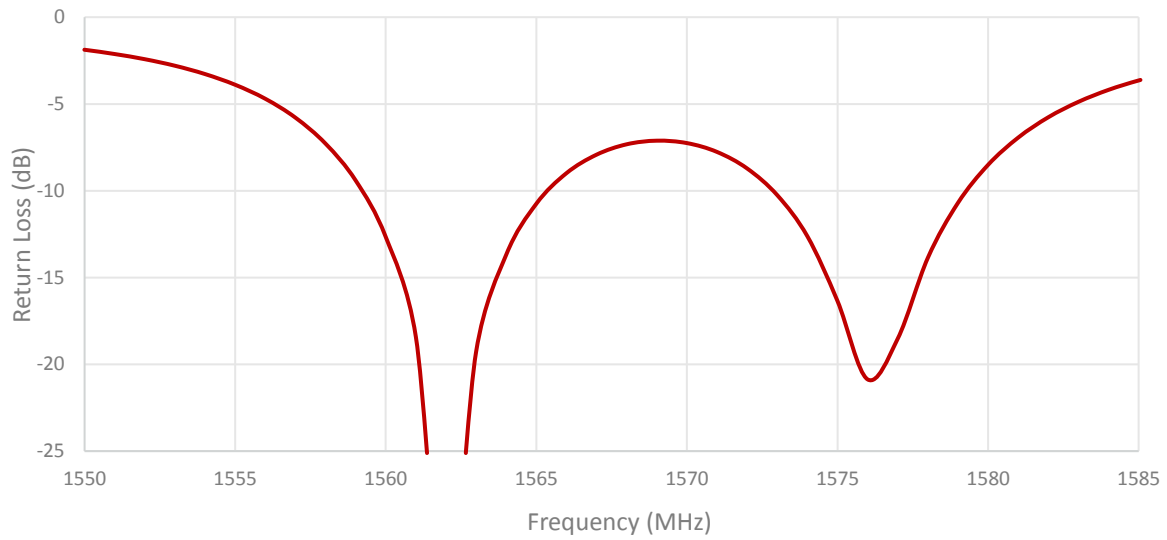
Mounted on Ground Plane of 70 x 70 mm

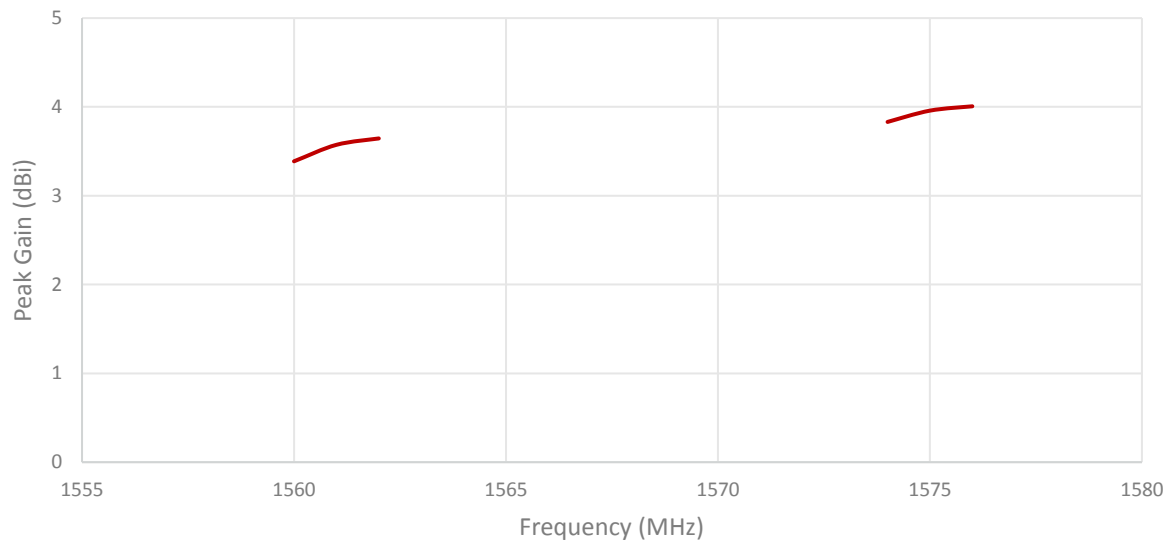
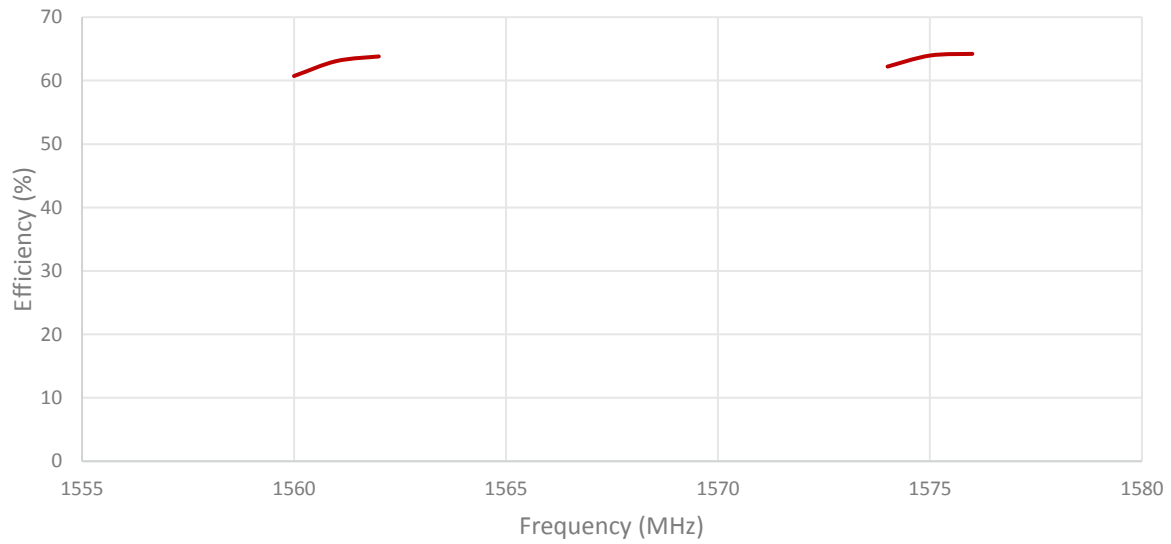
Measured in Certified CTIA 3D Anechoic Chamber

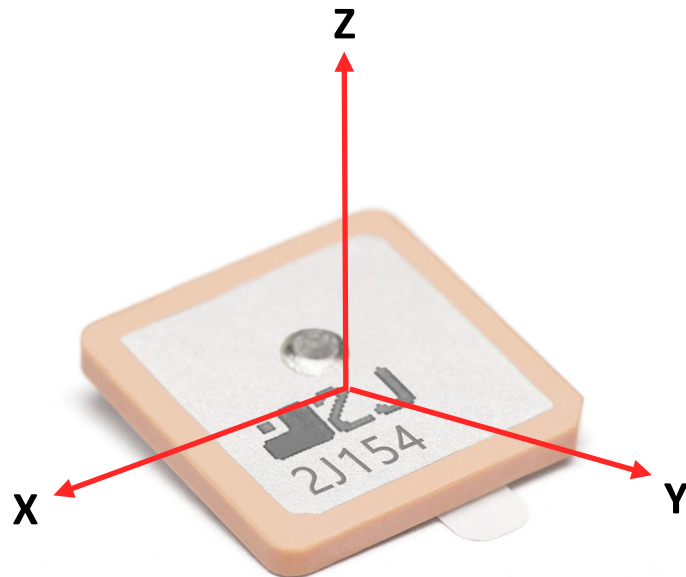
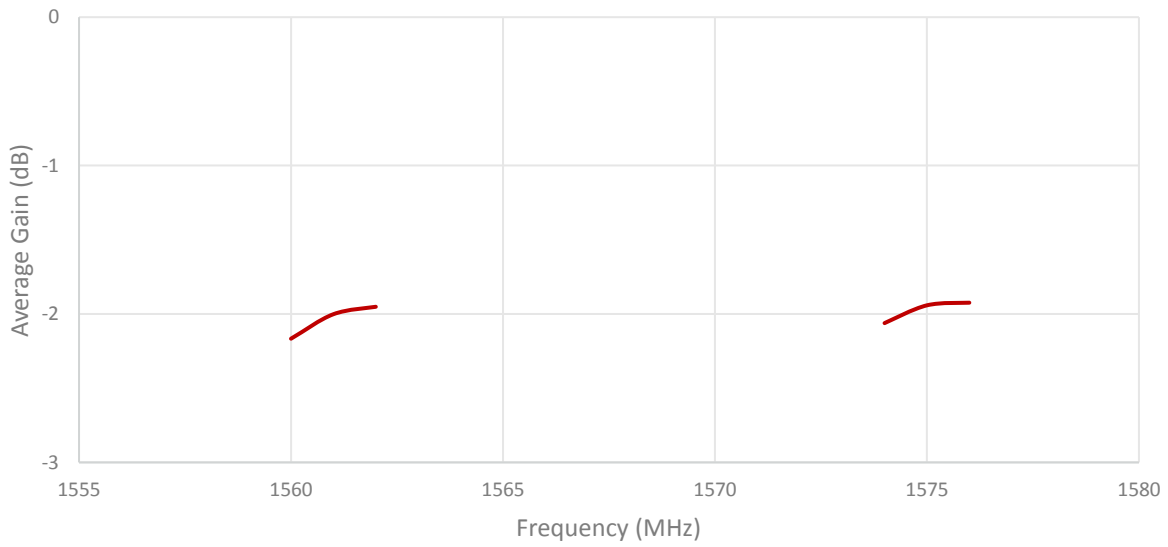
2. Mechanical and environmental specifications

Specifications	2JCP1820101Da
Mounting Type	Thru-Hole Mount
Adhesive	Nitto 5000NS
Dimensions (mm)	18.5 x 18.5 x 2
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

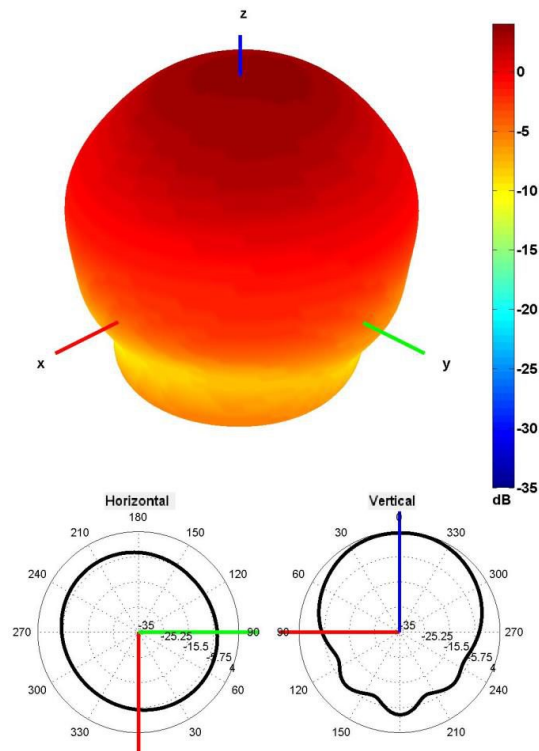
3. Antenna parameters



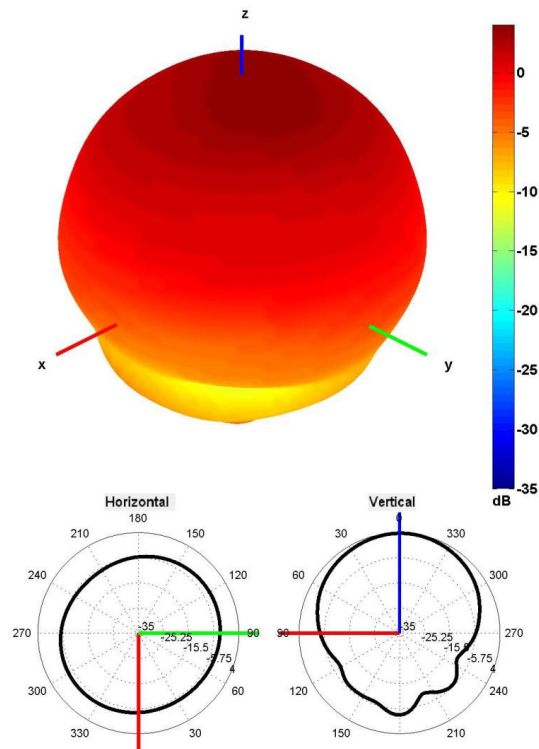




Radiation pattern reference



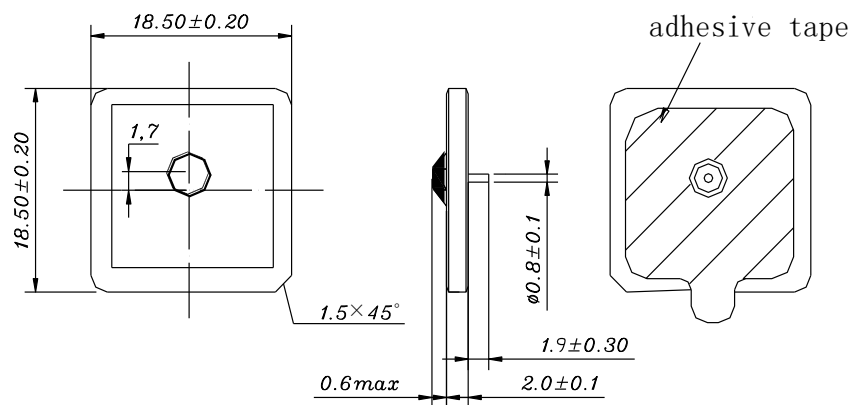
1561 MHz Radiation pattern



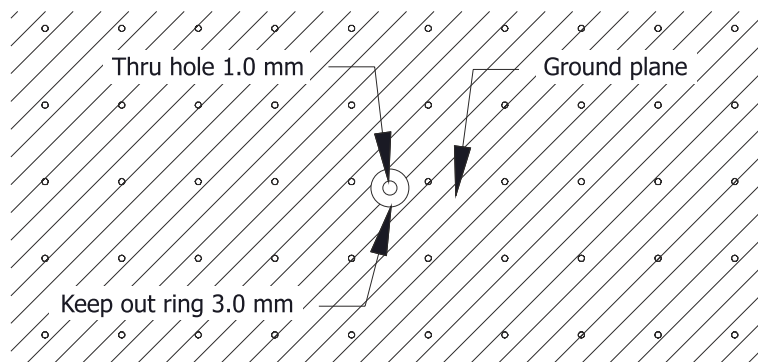
1575 MHz Radiation pattern

4. Antenna drawings

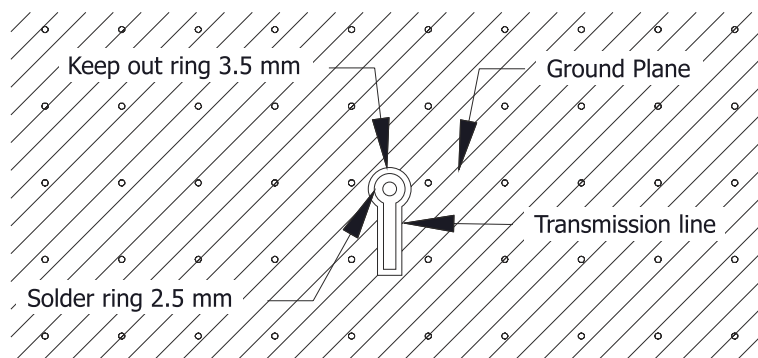
Patch Dimensions



Layout for top layer



Layout for bottom layer



5. Antenna Images

