

2JCP2583101Gc

GNSS/L1L5 Ceramic Thru-Hole Mount

Key Features

GPS/GLONASS/QZSS/Galileo/
IRNSS/SBAS/L1L5

- 1176 and 1575-1606 MHz

Thru-Hole Mount

Single Feed

Stacked Patch

High Performance

Ground Plane Dependent

Dimensions 25 × 25 × 8 mm



1. Antenna and electrical specifications

Parameters	GNSS Active Antenna	
Technologies	GPS/Glonass/QZSS/Galileo/IRNSS/SBAS/L1L5	
Bandwidth (MHz)	1176	1575-1606
Bands	L5	L1
Frequency (MHz)	1176.45	1575.42, 1602
Standards	GPS(L5), BeiDou(B2a), QZSS(L5), Galileo(E5a), IRNSS(L5)	GPS(L1C), GLONAS(L1OF), QZSS(L1C), Galileo(E1), SBAS (L1)
Return Loss (dB)	~-26.2	~-12.6
VSWR	~1.1:1	~1.6:1
Efficiency (%)	~63.6	~77.6
Passive Peak Gain (dBi)	~3.1	~4.6
Average Gain (dB)	~-2.0	~-1.2
Impedance (Ohms)	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	

Antenna Measurement Conditions:

Free Space

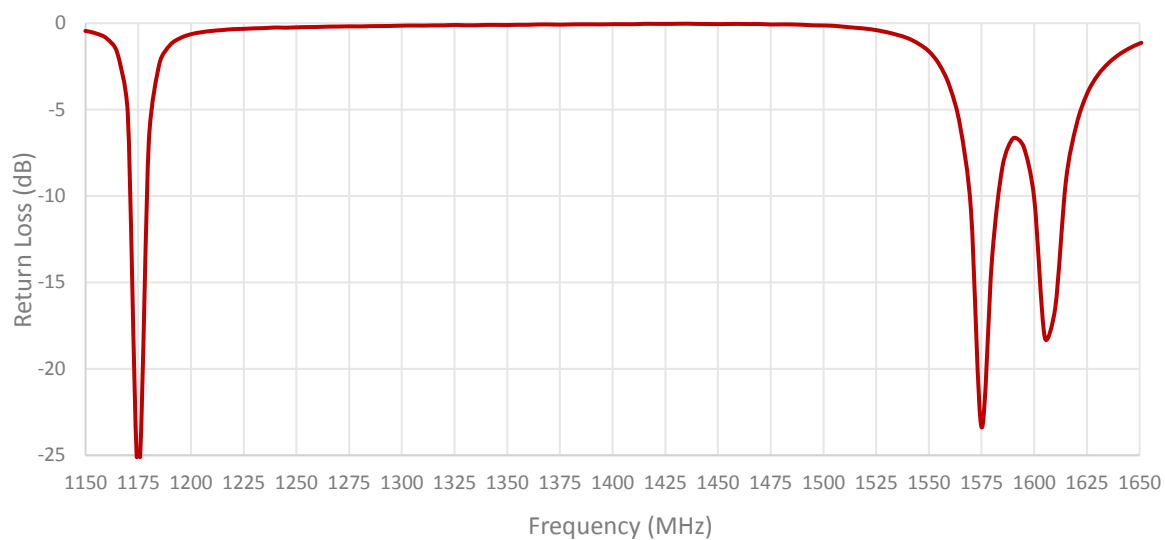
Mounted on Ground Plane of 70 x 70 mm

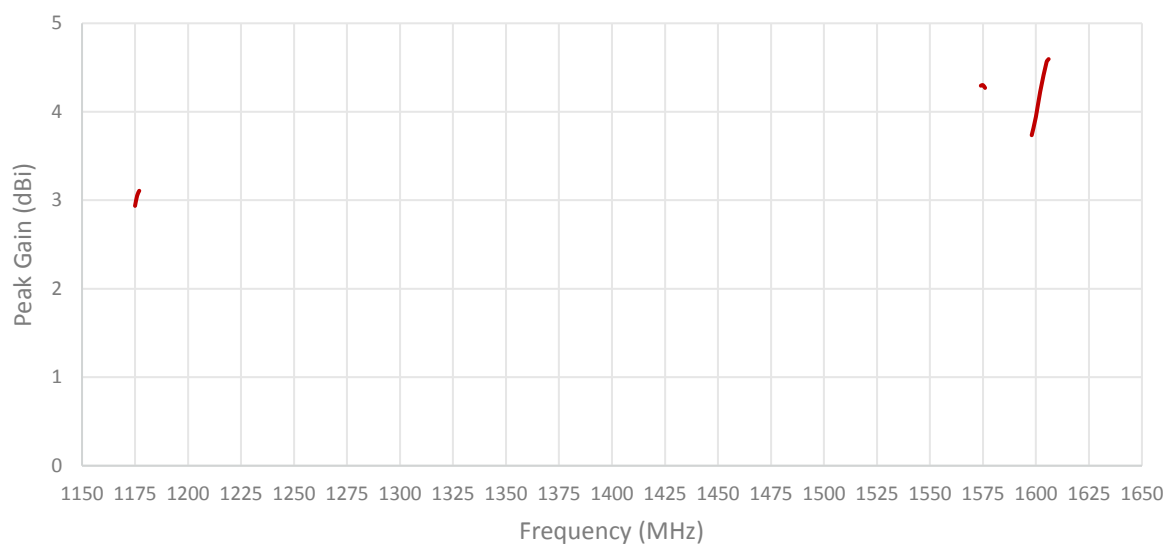
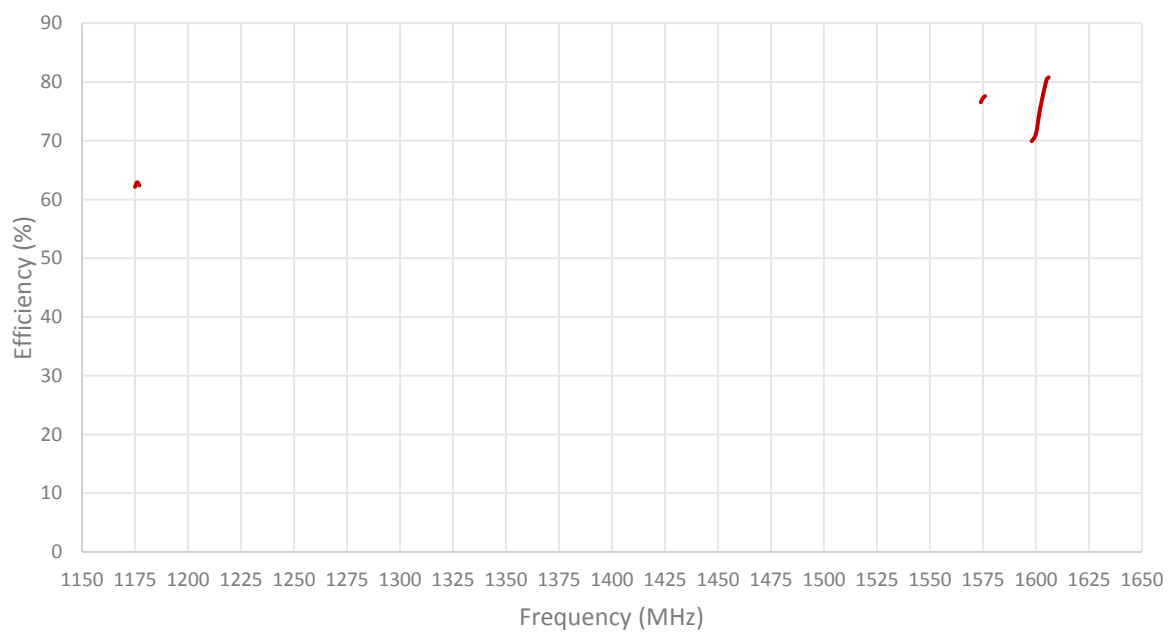
Measured in Certified CTIA 3D Anechoic Chamber

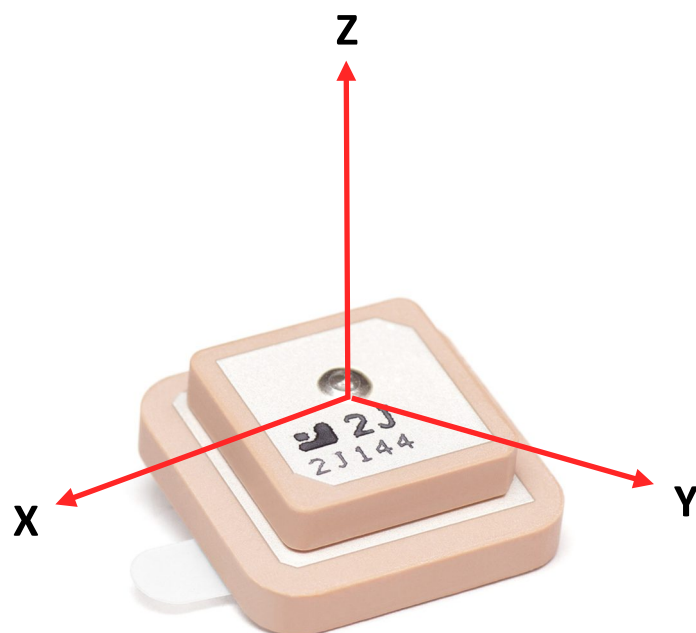
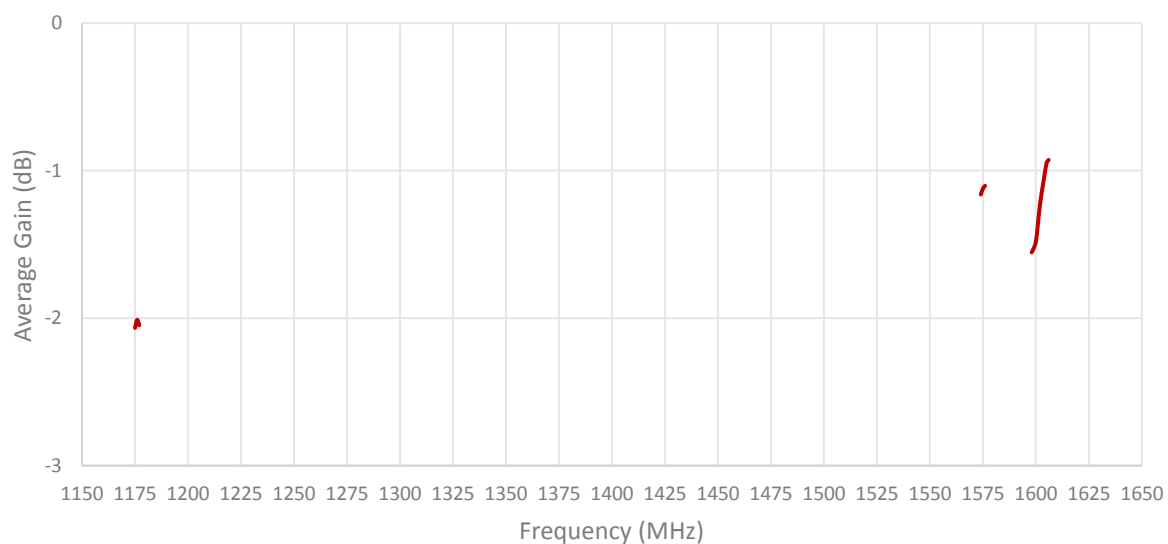
2. Mechanical and environmental specifications

Specifications	2JCP2583101Gc
Mounting Type	Thru-Hole Mount
Adhesive	Nitto 5000NS
Dimensions (mm)	25 × 25 × 8
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

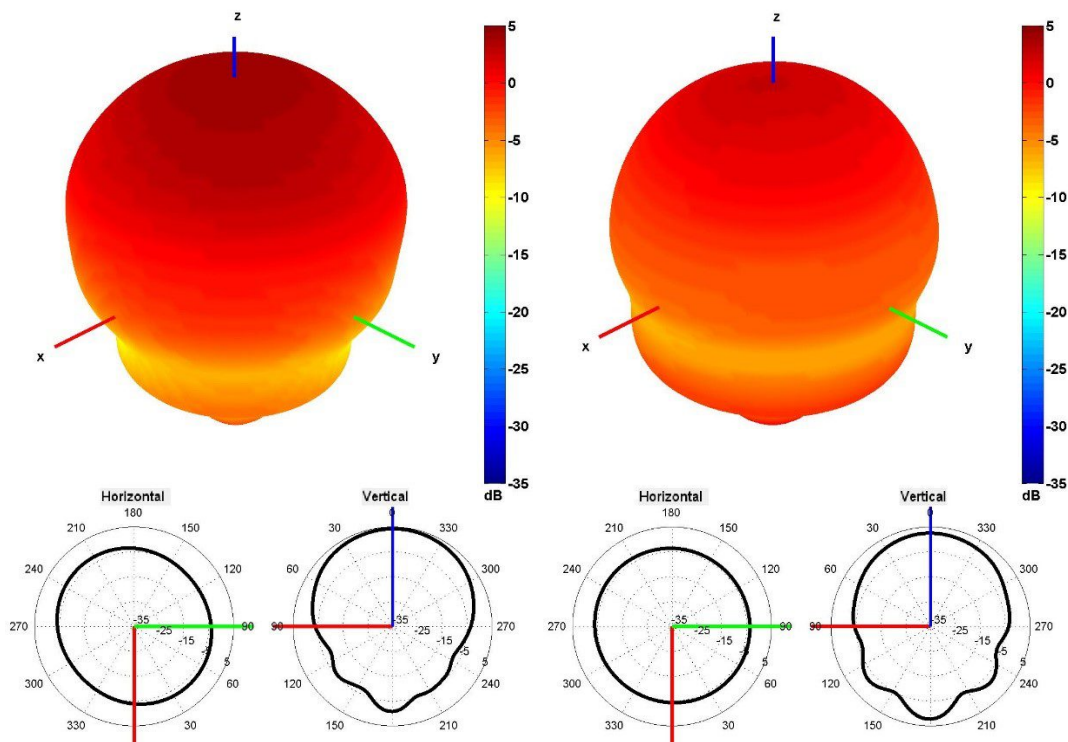
3. Antenna parameters



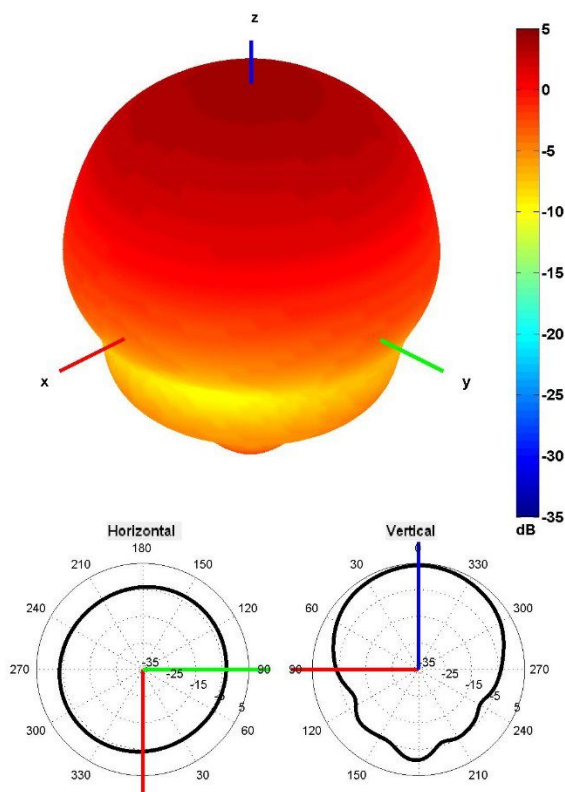




Radiation pattern reference



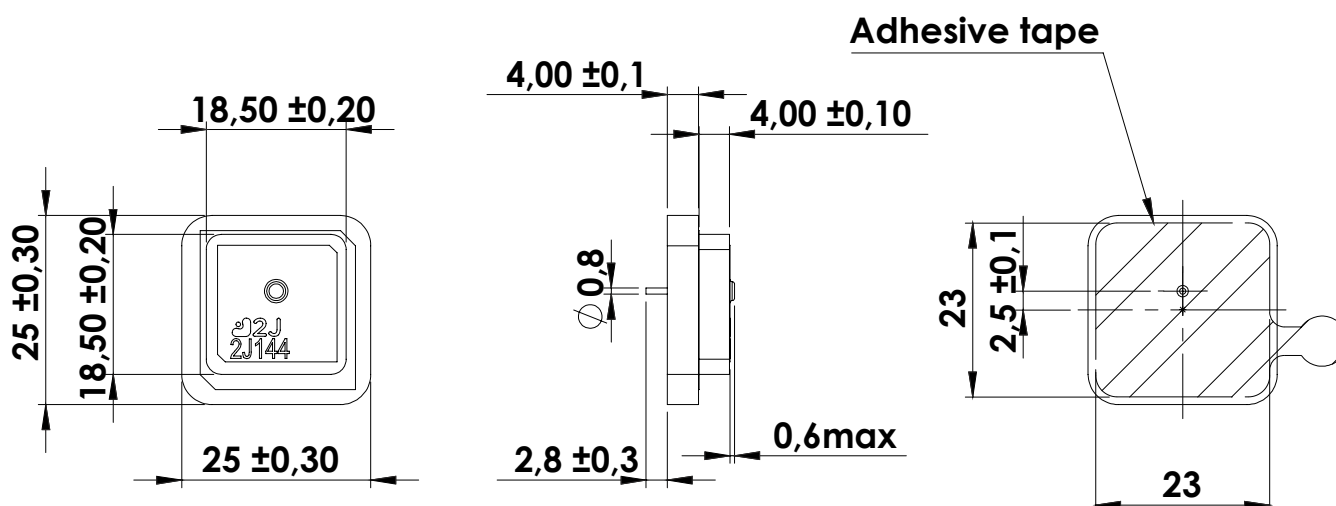
1176 AND 1575 MHz Radiation pattern



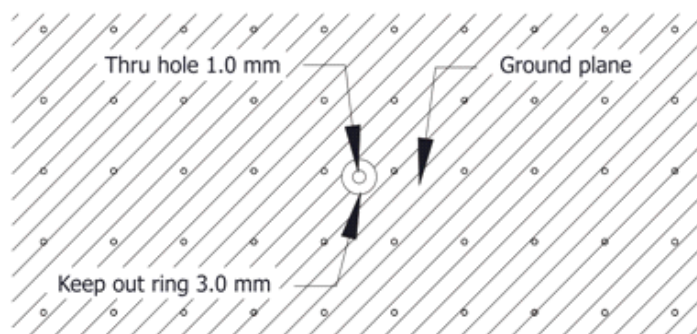
1602 MHz Radiation pattern

4. Antenna drawings

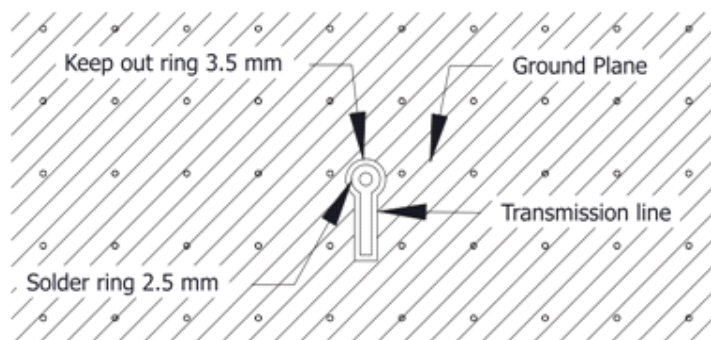
Patch Dimensions



Layout for top layer



Layout for bottom layer



5. Antenna Images

