

2JDK0134a-C104N

GNSS and IRIDIUM Ceramic Thru-Hole Mount Development Kit

Key Features

GPS/QZSS/Galileo and IRIDIUM

- 1575 MHz

- 1616-1627 MHz

Set of 6 patches to try on devices

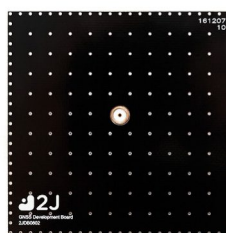
Single Feed Technology

Thru-Hole Mount

High Gain

Ground Plane Independent

Patches Dimensions 25 x 25 x 4 mm



1. Antenna and electrical specifications

Parameters	GNSS and IRIDIUM Ceramic Thru-Hole Mount Antenna	
	GPS/QZSS/Galileo	IRIDIUM
Standards		
Bands (MHz)	1575	1621
Frequency (MHz)		
2JCP2543401a (2J128)	1575.42	1616-1627
2JCP2543402a (2J129)	1580.42	1621-1632
2JCP2543403a (2J130)	1585.42	1626-1637
2JCP2543404a (2J131)	1590.42	1631-1642
2JCP2543405a (2J132)	1595.42	1636-1647
2JCP2543406a (2J133)	1600.42	1641-1652
Return Loss (dB)	~-27.6	~-21.6
VSWR	~1.1:1	~1.3:1
Efficiency (%)	~93.8	~92.9
Peak Gain (dBiC)	~5.1	~5.7
Average Gain (dB)	~-0.3	~-0.3
Impedance (Ohms)	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	

Antenna Measurement Conditions:

Free Space

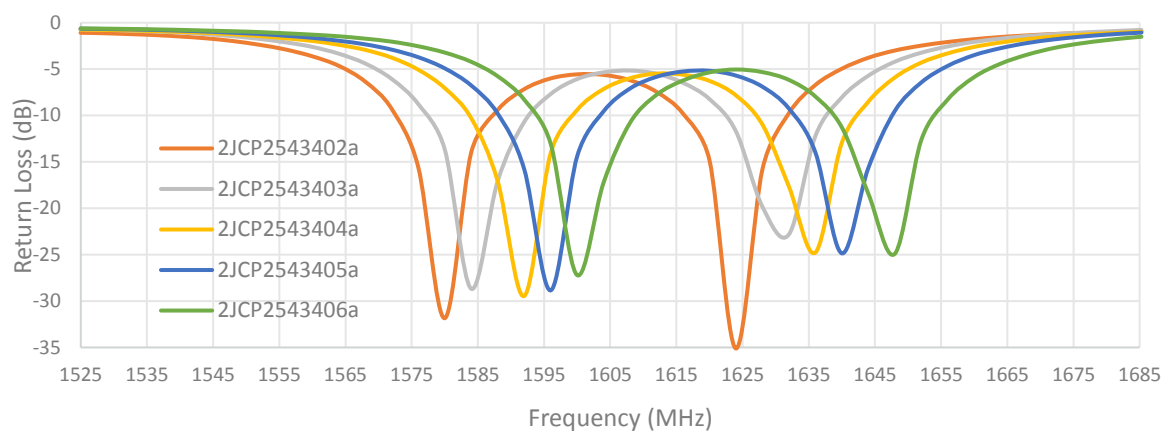
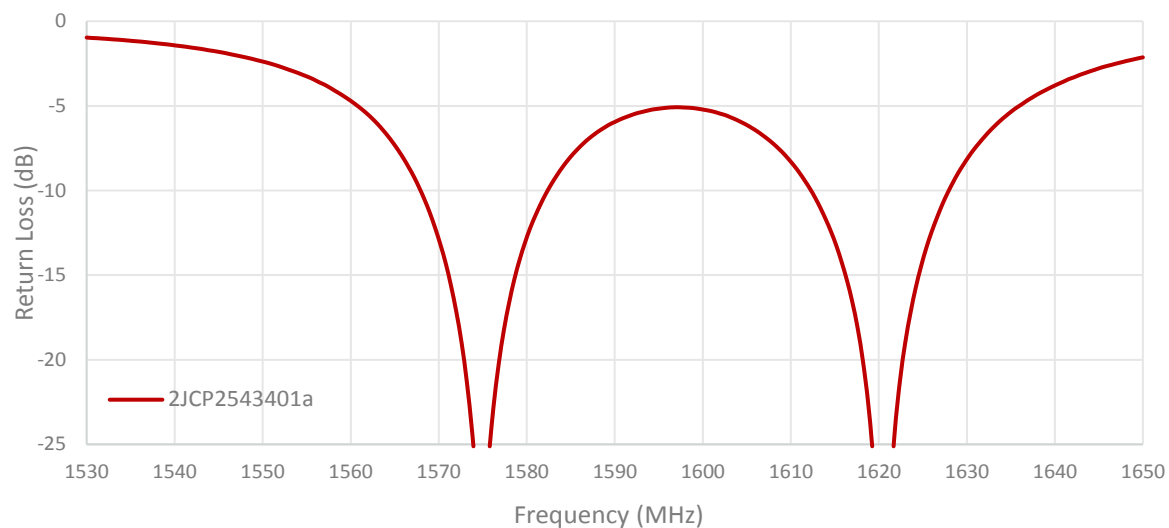
Mounted on Ground Plane of 70 x 70 mm

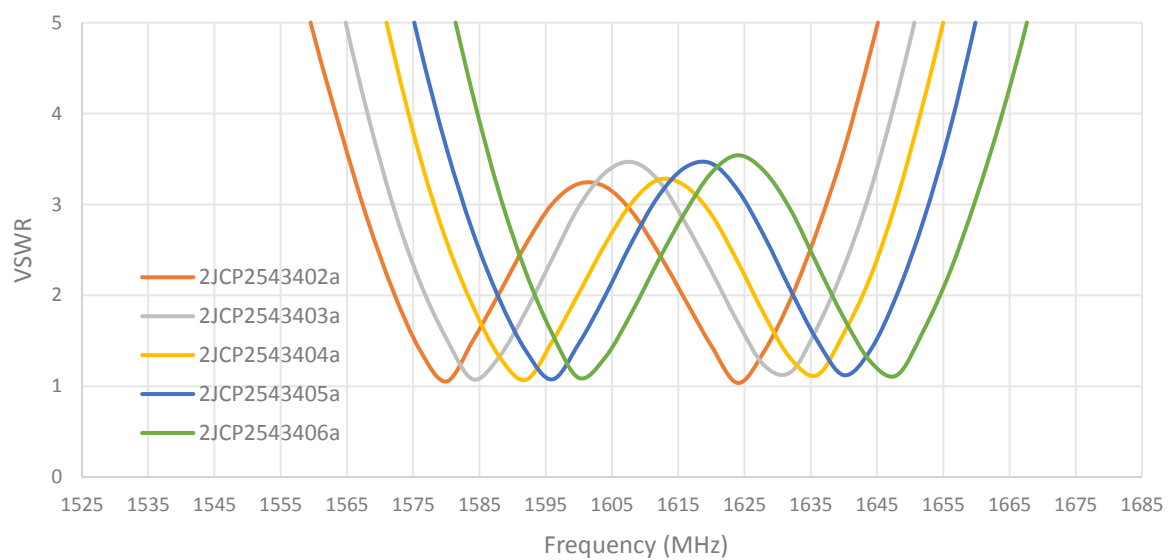
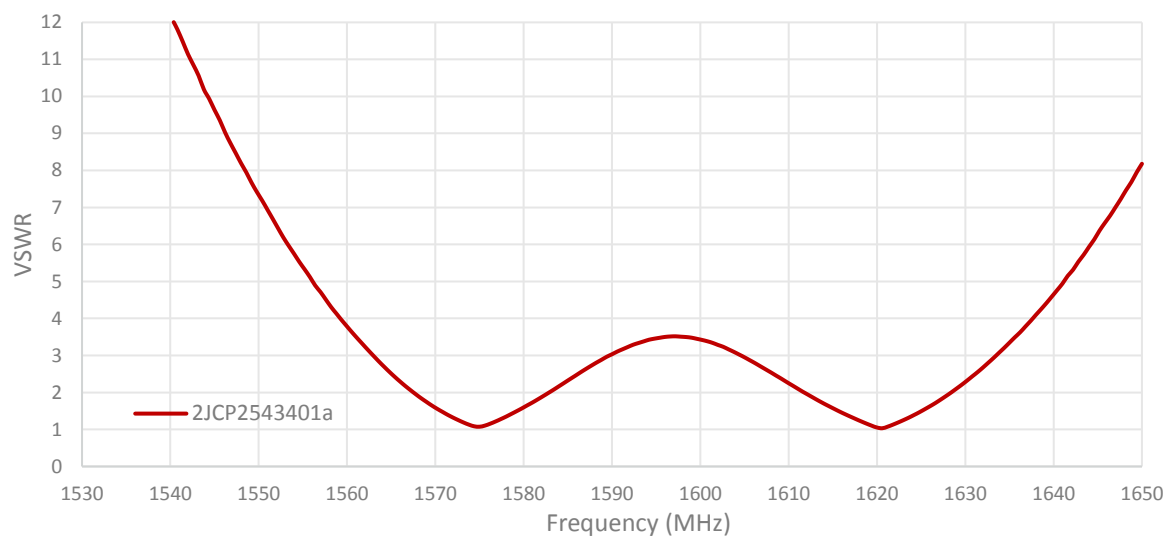
Measured in Certified CTIA 3D Anechoic Chamber

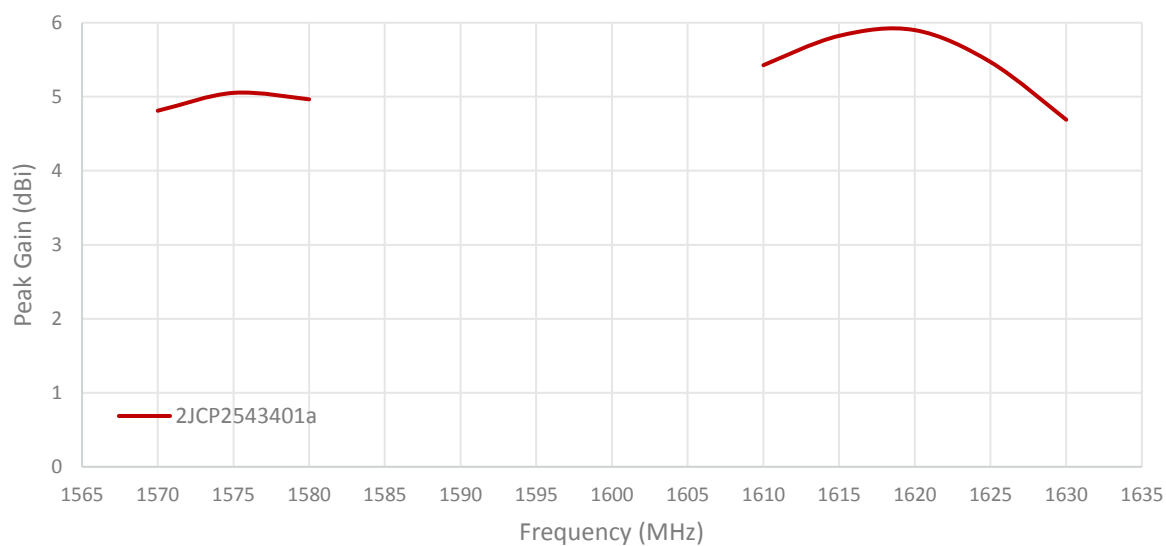
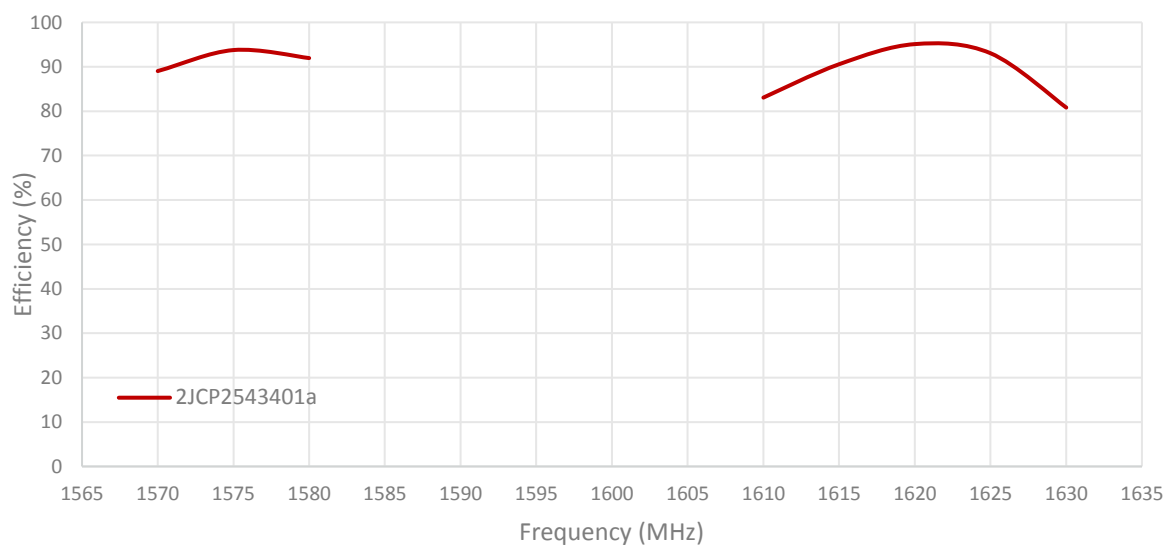
2. Mechanical and environmental specifications

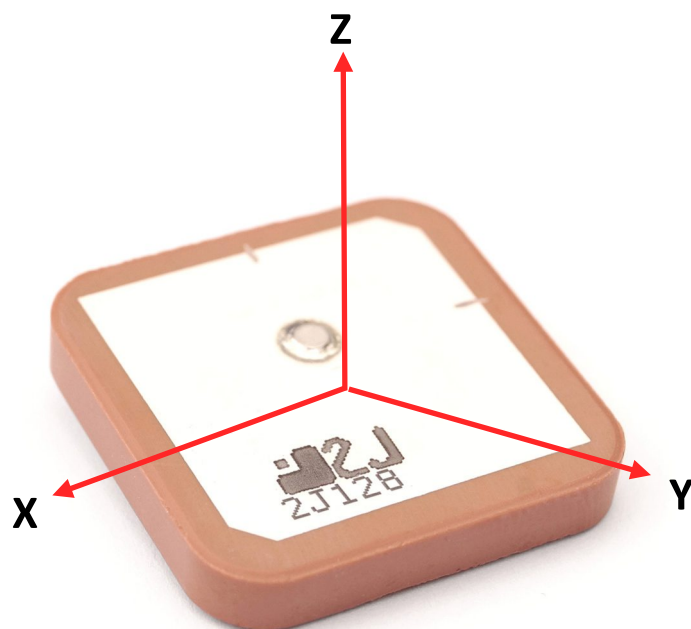
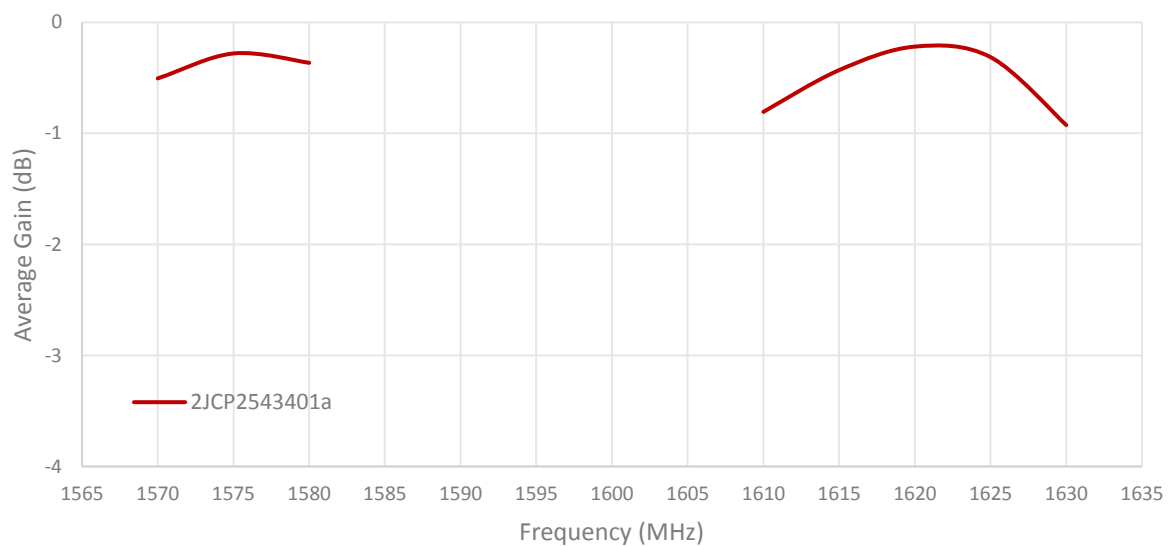
Specifications	2JCP2543401a
Mounting Type	Thru-Hole Mount
Adhesive	Nitto 5000NS
Dimensions (mm)	25 x 25 x 4
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

3. Antenna parameters

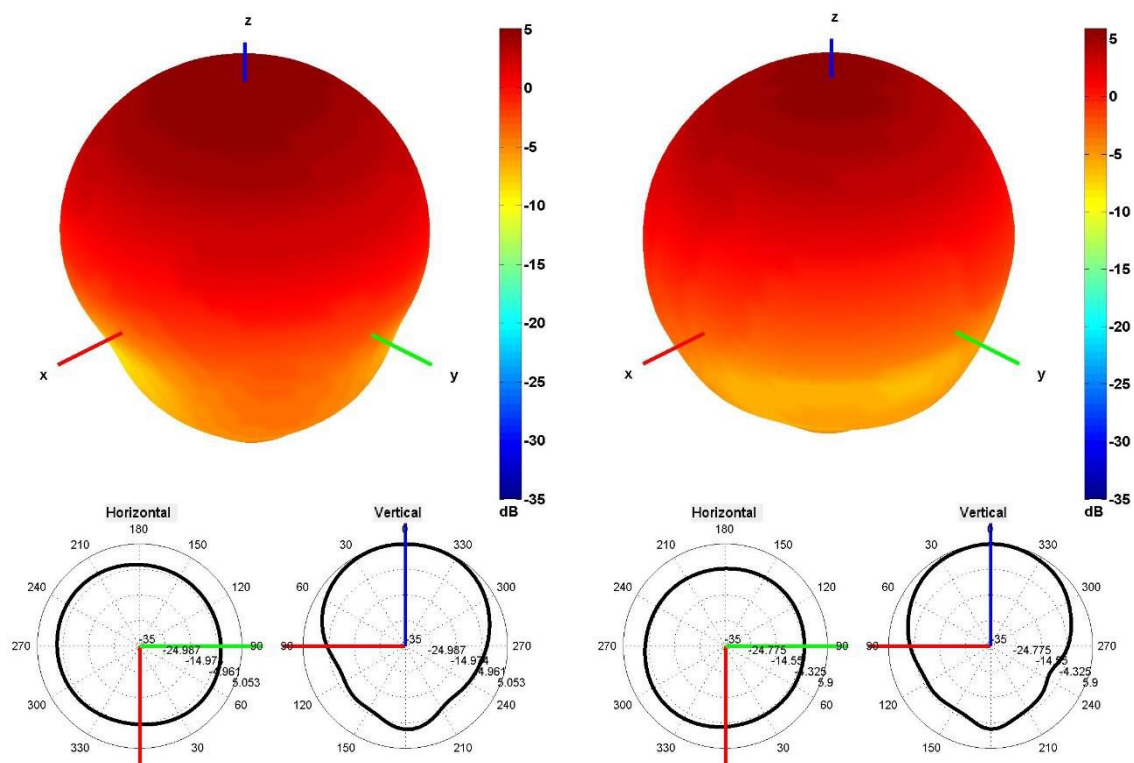






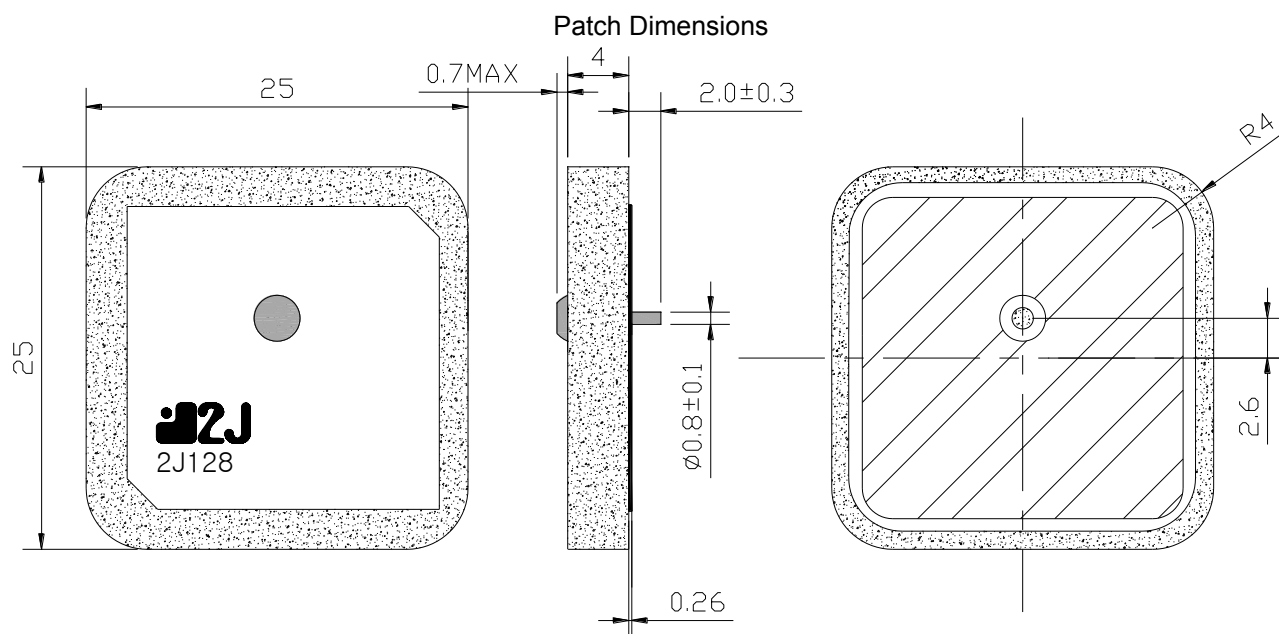


Radiation pattern reference

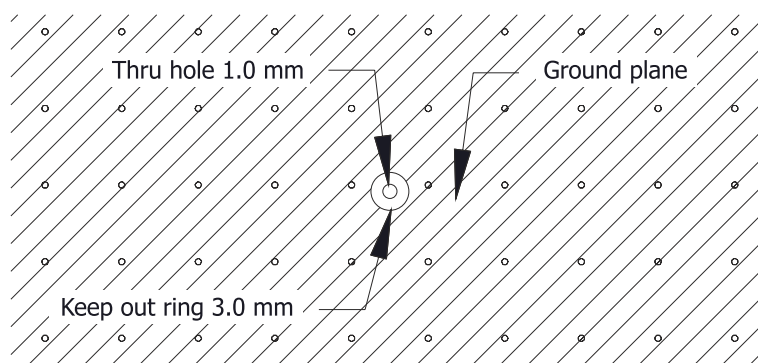


1575 AND 1621 MHz RADIATION PATTERN

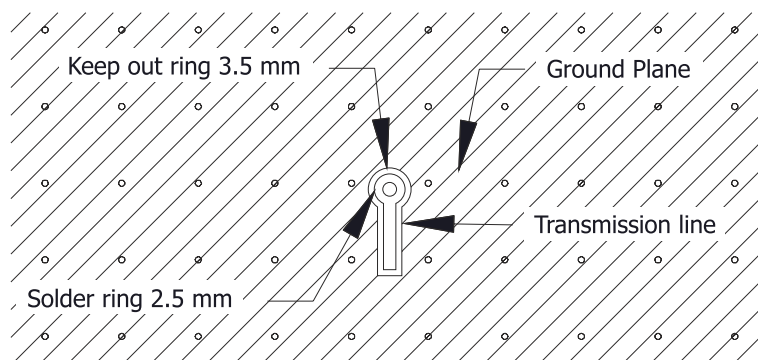
4. Antenna drawings



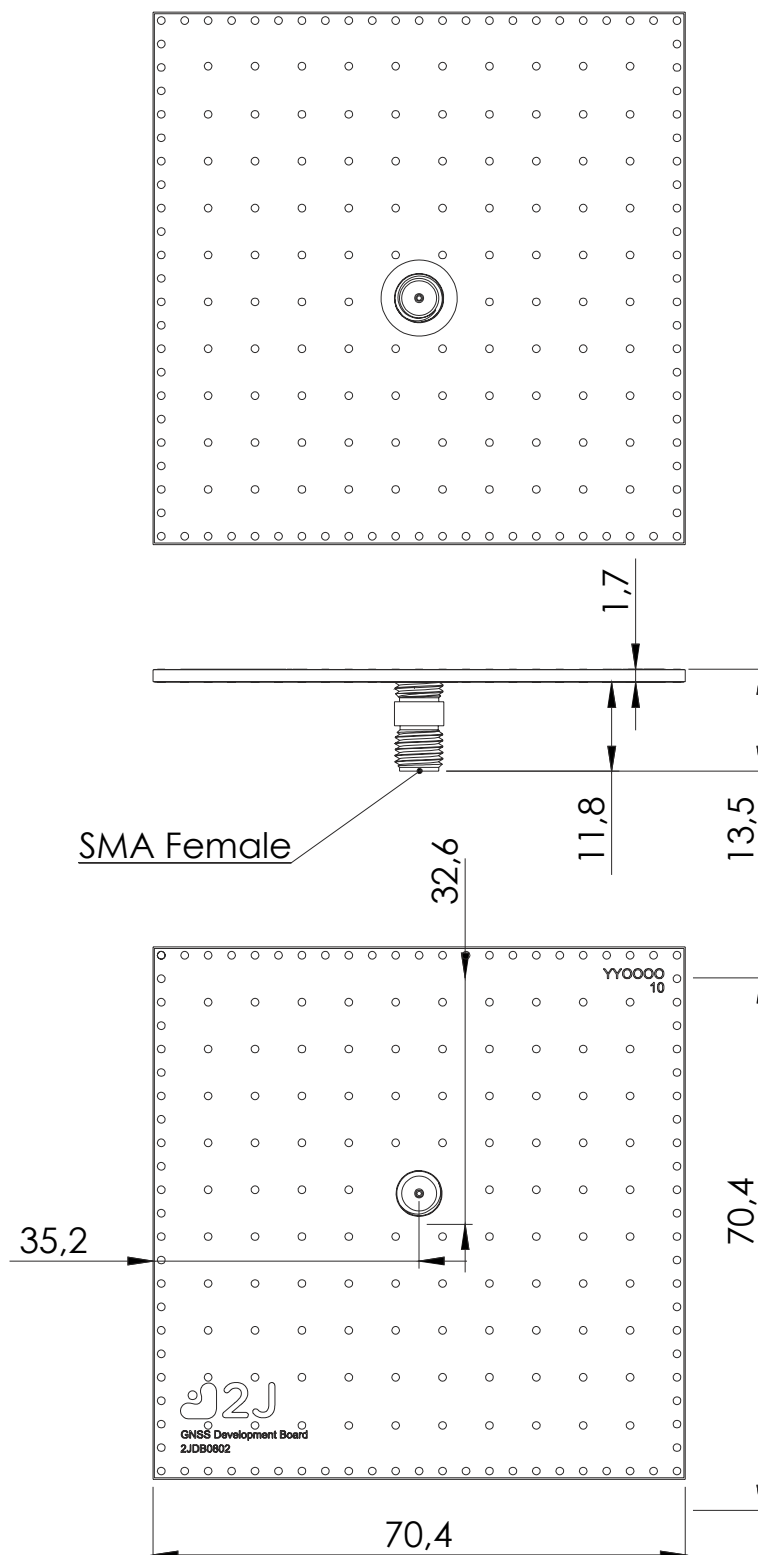
Layout for top layer



Layout for bottom layer



2JDB0802 Development board



5. Antenna Images

