

## 2JDK0101Ga-C104N

### GNSS Ceramic Thru-Hole Mount Development Kit

#### Key Features

GPS/GLONASS/QZSS/Galileo  
- 1575-1606 MHz

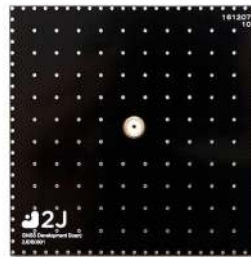
Set of 6 patches to try on devices

Thru-Hole Mount

High Gain

Ground Plane Independent

Patches Dimensions 18 x 18 x 4 mm



## 1. Antenna and electrical specifications

Parameters	GNSS Ceramic Thru-Hole Mount Antenna	
	GPS/QZSS/Galileo	GLONASS
<b>Standards</b>		
<b>Bands (MHz)</b>	1575	1602
<b>Frequency (MHz)</b>		
2JCP1840101Ga (2J78)	1575.42	1598-1606
2JCP1840102Ga (2J79)	1580.42	1603-1611
2JCP1840103Ga (2J80)	1585.42	1608-1616
2JCP1840104Ga (2J81)	1590.42	1613-1621
2JCP1840105Ga (2J82)	1595.42	1618-1626
2JCP1840106Ga (2J83)	1600.42	1623-1631
<b>Return Loss (dB)</b>	~-26.0	~-18.8
<b>VSWR</b>	~1.1:1	~1.3:1
<b>Efficiency (%)</b>	~73.9	~73.7
<b>Peak Gain (dBiC)</b>	~4.1	~4.2
<b>Average Gain (dB)</b>	~-1.3	~-1.3
<b>Impedance (Ohms)</b>	50	
<b>Radiation Pattern</b>	Hemispherical	

### Antenna Measurement Conditions:

Free Space

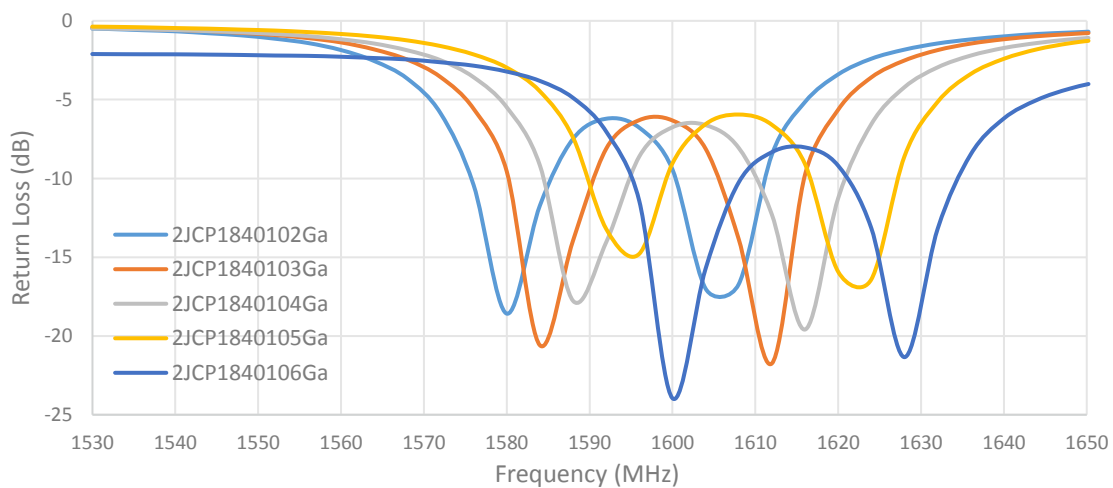
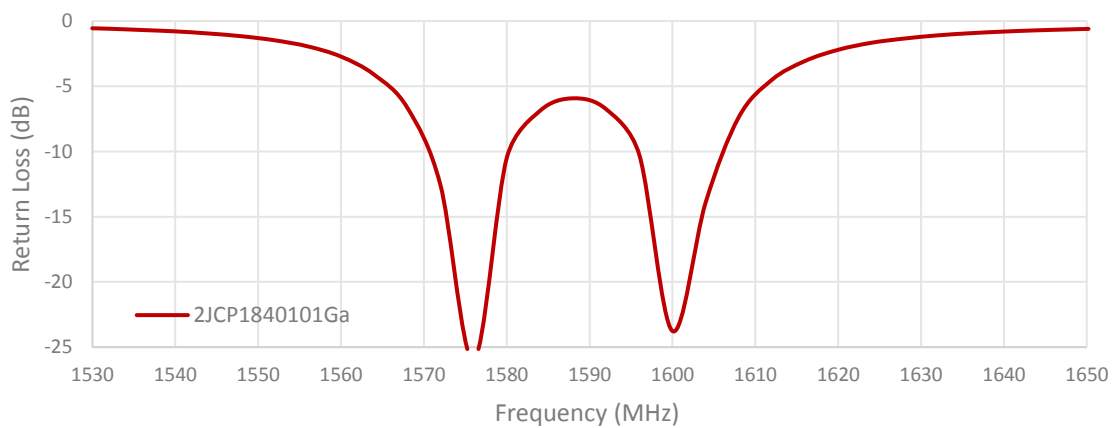
Mounted on Ground Plane of 70 x 70 mm

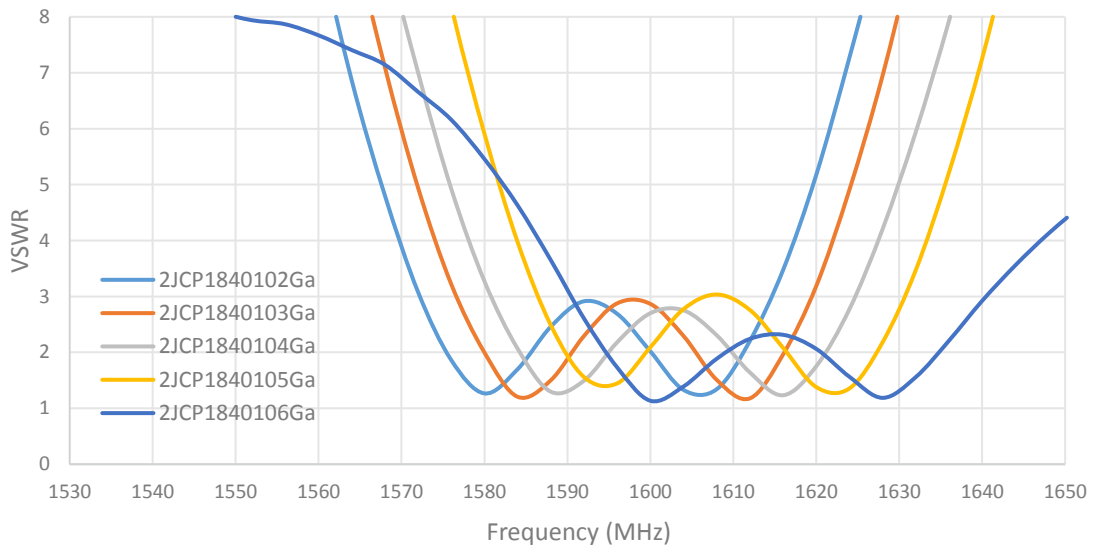
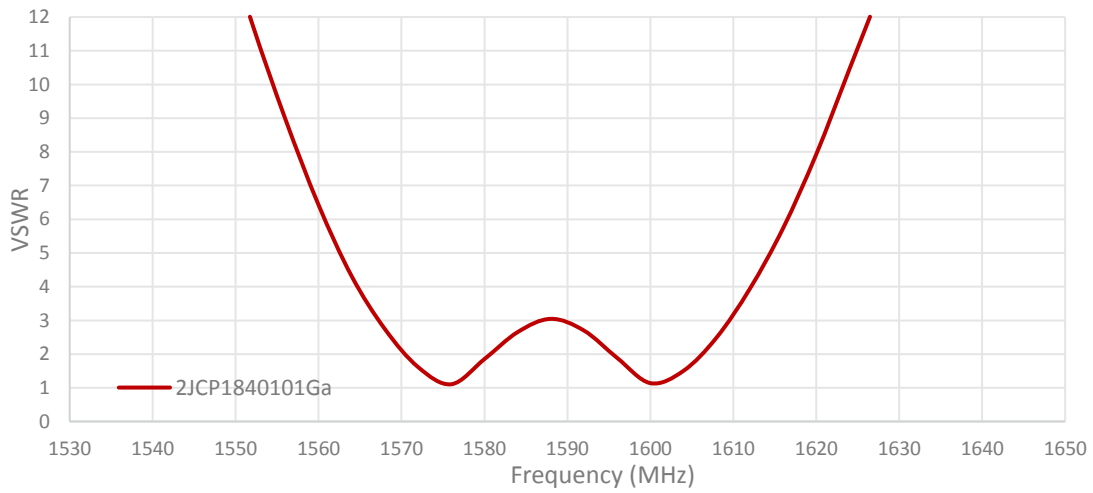
Measured in Certified CTIA 3D Anechoic Chamber

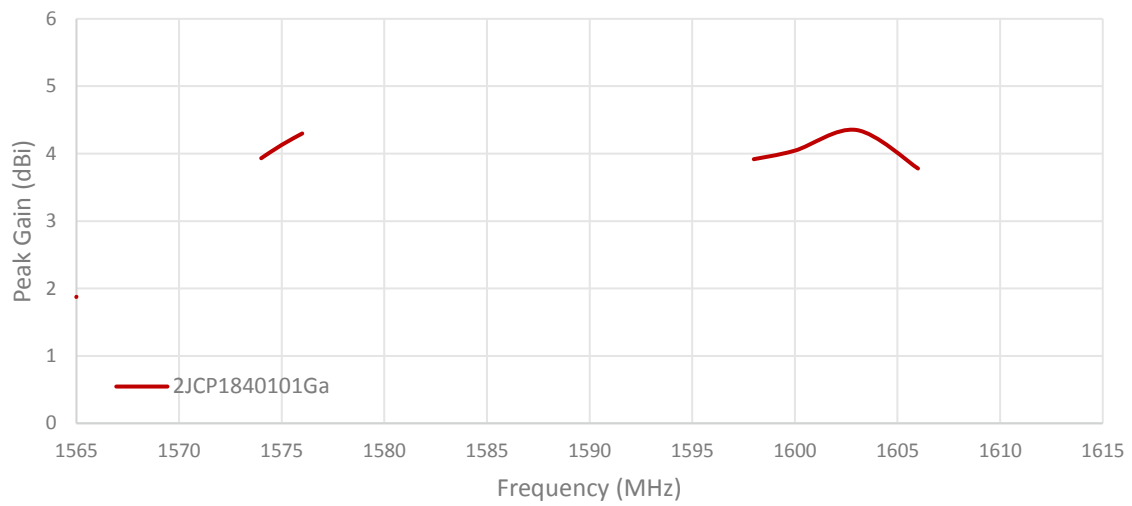
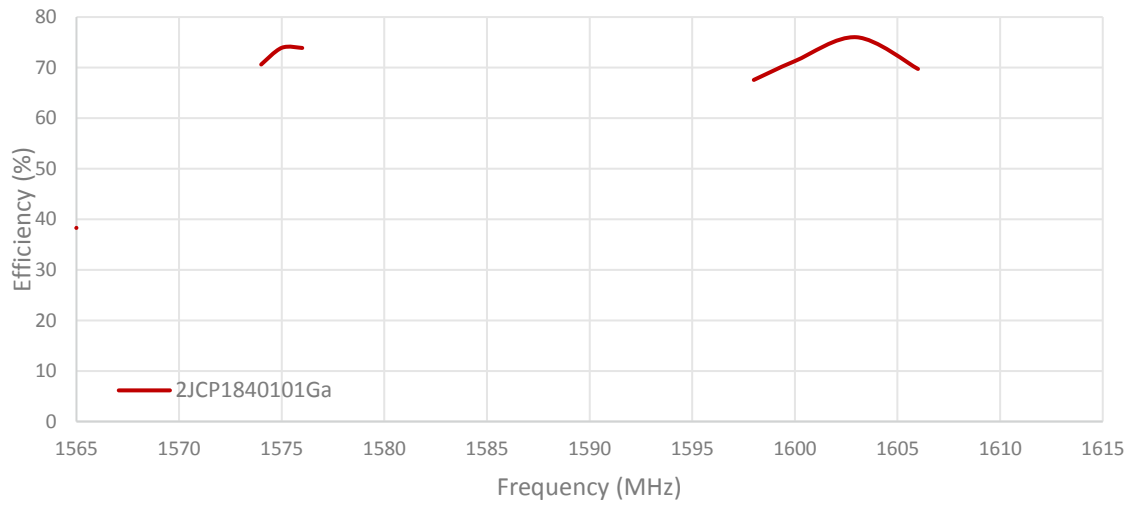
## 2. Mechanical and environmental specifications

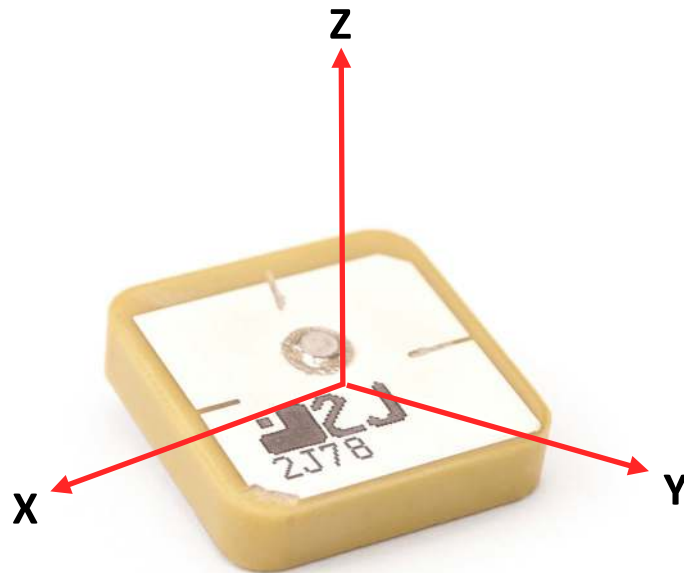
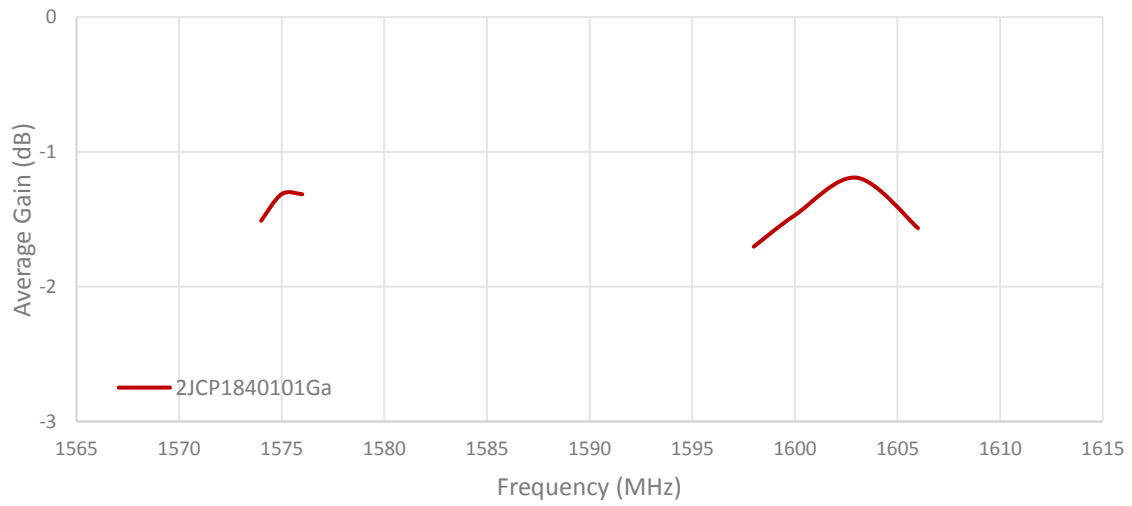
Specifications	2JCP1840101Ga
<b>Mounting Type</b>	Thru-Hole Mount
<b>Adhesive</b>	Nitto 5000NS
<b>Dimensions (mm)</b>	18 x 18 x 4
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS

### 3. Antenna parameters

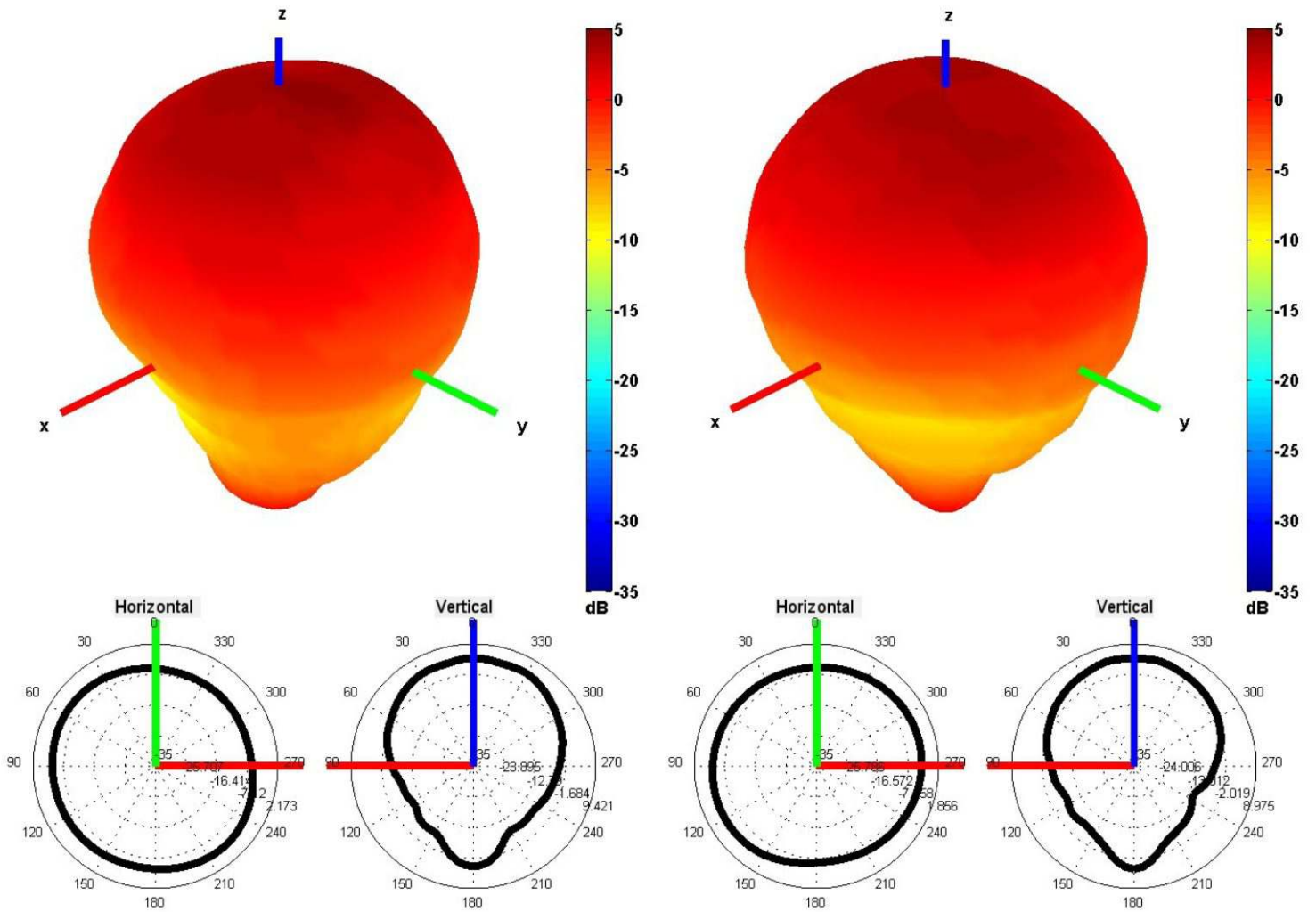






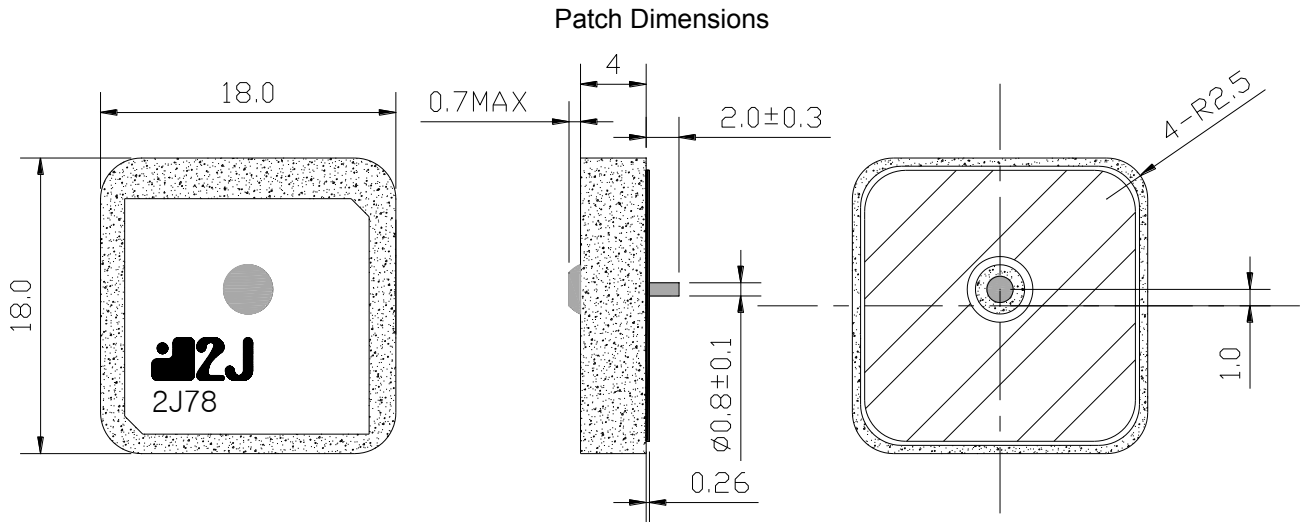


Radiation pattern reference

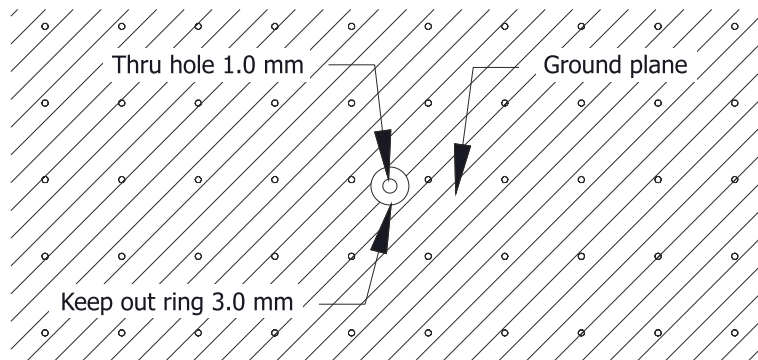


1575 AND 1602 MHz RADIATION PATTERN

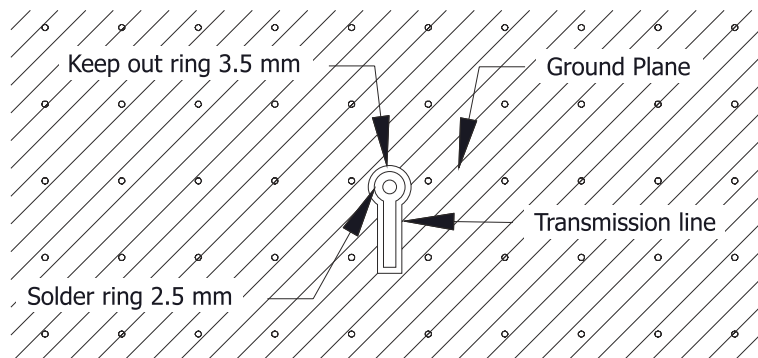
## 4. Antenna drawings



**Layout for top layer**

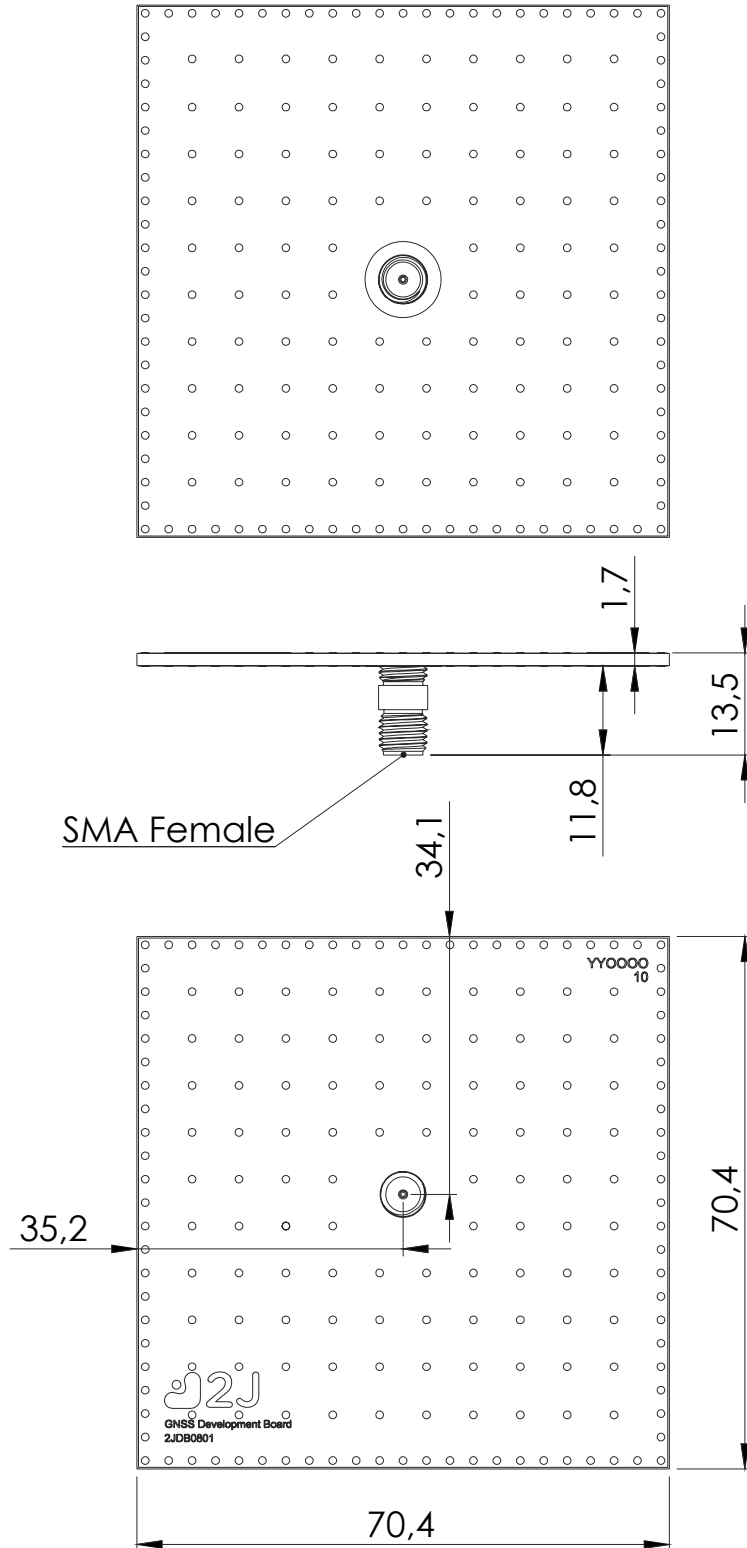


**Layout for bottom layer**





2JDB0801 Development board



## 5. Antenna Images

