

# GA-P18

## Ceramic GPS Passive Antenna

### Product Description

Santa Fe **GA-P18** is a high performance R.C.H.P. ceramic passive GPS antenna. It's small form factor, light weight and easy installation and suitable for location based, assert tracking, time synchronization applications. Other dimensions are available.

- 25MM x 25MM
- 20MM x 20MM
- 15MM x 15MM
- 12MM x 12MM
- 10MM x 10MM

### Highlight

- Low profile design
- Easy installation
- Other dimensions are optional.
- Suitable for Assert tracking, location based products



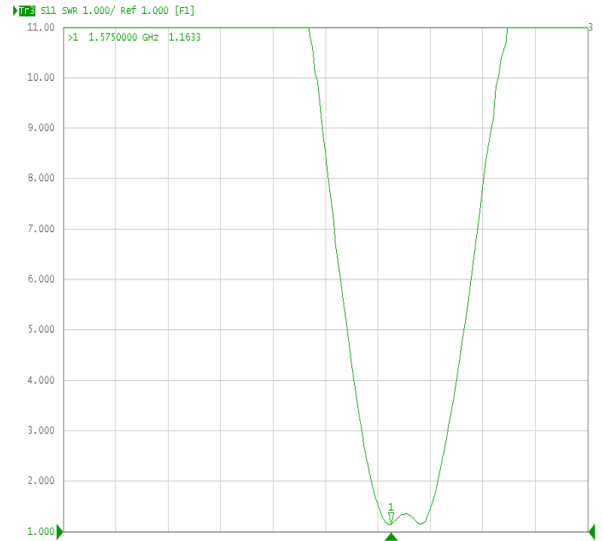
### Antenna Specification Measured on 60 x 40mm Ground Plane

<b>Frequency</b>	1575.42 ± 3MHz
<b>Gain</b>	2.43 dBi
<b>Edfficiency</b>	58.74%
<b>VSWR</b>	<1.5
<b>Impedance</b>	50Ω
<b>Polarization</b>	R.C.H.P.
<b>Max. Input Power</b>	50W

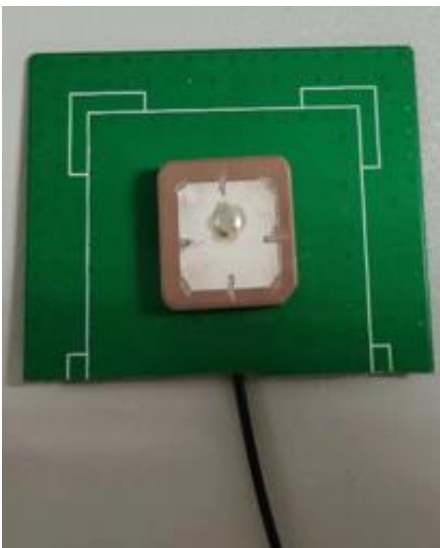
### Mechanical Specification

<b>Dimension</b>	18mm(L) x 18mm(W) x 4mm(H)
<b>Weight</b>	5g
<b>Operation Temperature</b>	-40°C to +80°C
<b>Storage Temperature</b>	-40 °C to +80 °C
<b>Antenna Material</b>	Ceramic
<b>RoHS</b>	Compliant
<b>Mounting</b>	Welding

## Antenna VSWR & Return Loss

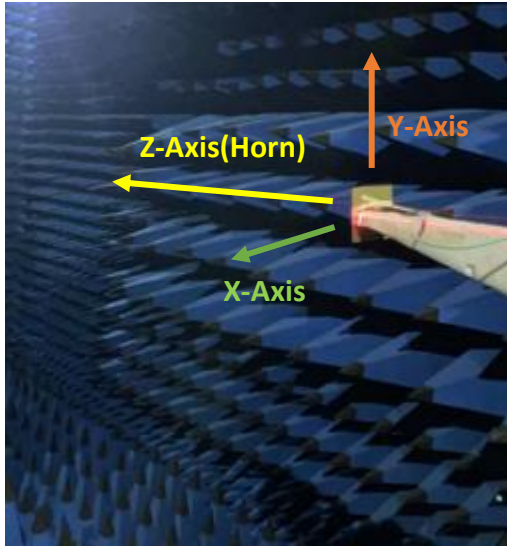


## Antenna Measurement



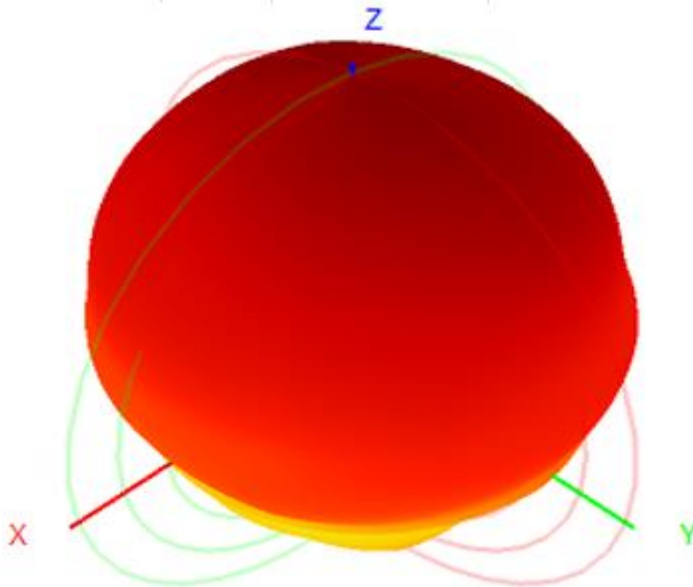
- Antenna dimension: 18 x 18 x 4mm
- Ground plane: 60 x 40mm
- Cable length: 150mm

## Antenna Measurement - Setup, Efficiency



Frequency(MHz)	Efficiency(%)	Gain(dBi)
<b>1569</b>	52.13%	2.04
<b>1571</b>	54.05%	2.28
<b>1573</b>	55.49%	2.38
<b>1575</b>	58.74%	2.43
<b>1577</b>	58.89%	2.48
<b>1579</b>	57.70%	2.38
<b>1581</b>	56.34%	2.44
<b>1583</b>	54.34%	2.41
<b>1885</b>	52.89%	2.25

## Antenna Measurement - 3D Radiation Pattern



3D radiation pattern @ 1575MHz