SANTA FE

TECHNOLOGIES

GA-P18

Ceramic GPS Passive Antenna



Antenna Specification Measured on 60 x 40mm Ground Plane

| Frequency | 1575.42 ± 3MHz |
|------------------|----------------|
| Gain | 2.43 dBi |
| Edffiency | 58.74% |
| VSWR | <1.5 |
| Impedance | 50Ω |
| Polarization | R.C.H.P. |
| Max. Input Power | 50W |

Mechanical Specification

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



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

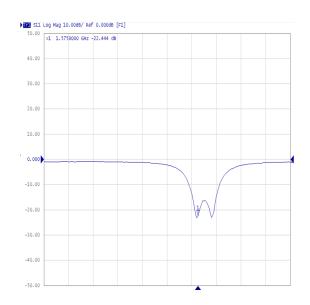
- Low profile design
- ➤ Easy installation
- Other dimensions are optional.

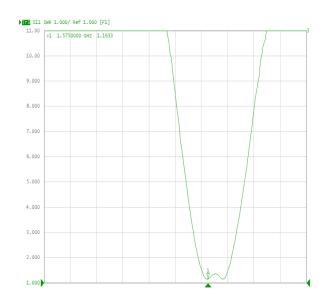
Suitable for Assert tracking, location based products

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Antenna VSWR & Return Loss





Antenna Measurement



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

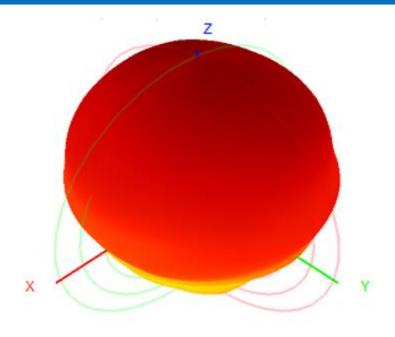
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Antenna Measurement - Setup, Efficiency

| | Frequency(MHz) | Efficiency(%) | Gain(dBi) |
|---|----------------|---------------|-----------|
| The second of the second se | 1569 | 52.13% | 2.04 |
| Z-Axis(Horn) Y-Axis | 1571 | 54.05% | 2.28 |
| X-Axis | 1573 | 55.49% | 2.38 |
| | 1575 | 58.74% | 2.43 |
| | 1577 | 58.89% | 2.48 |
| | 1579 | 57.70% | 2.38 |
| | 1581 | 56.34% | 2.44 |
| | 1583 | 54.34% | 2.41 |
| | 1885 | 52.89% | 2.25 |

Antenna Measurement - 3D Radiation Pattern



3D radiation pattern @ 1575MHz

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