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

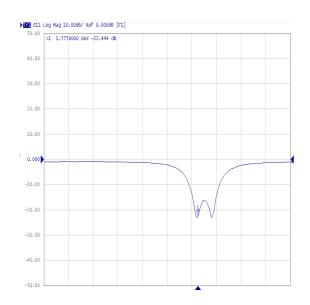
- Low profile design
- ➤ Easy installation
- Other dimensions are optional.

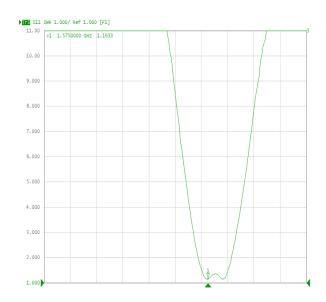
Suitable for Assert tracking, location based products

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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

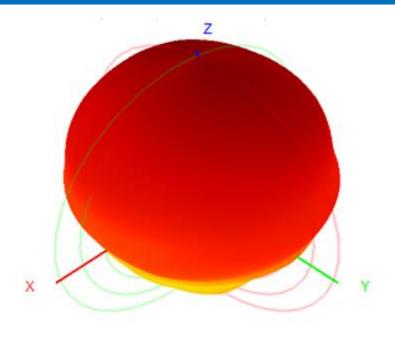
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Antenna Measurement - Setup, Efficiency

	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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