

Specification

Sample name: GPS built-in antenna Line specification and model:
1540A 1568

Performance and parameters

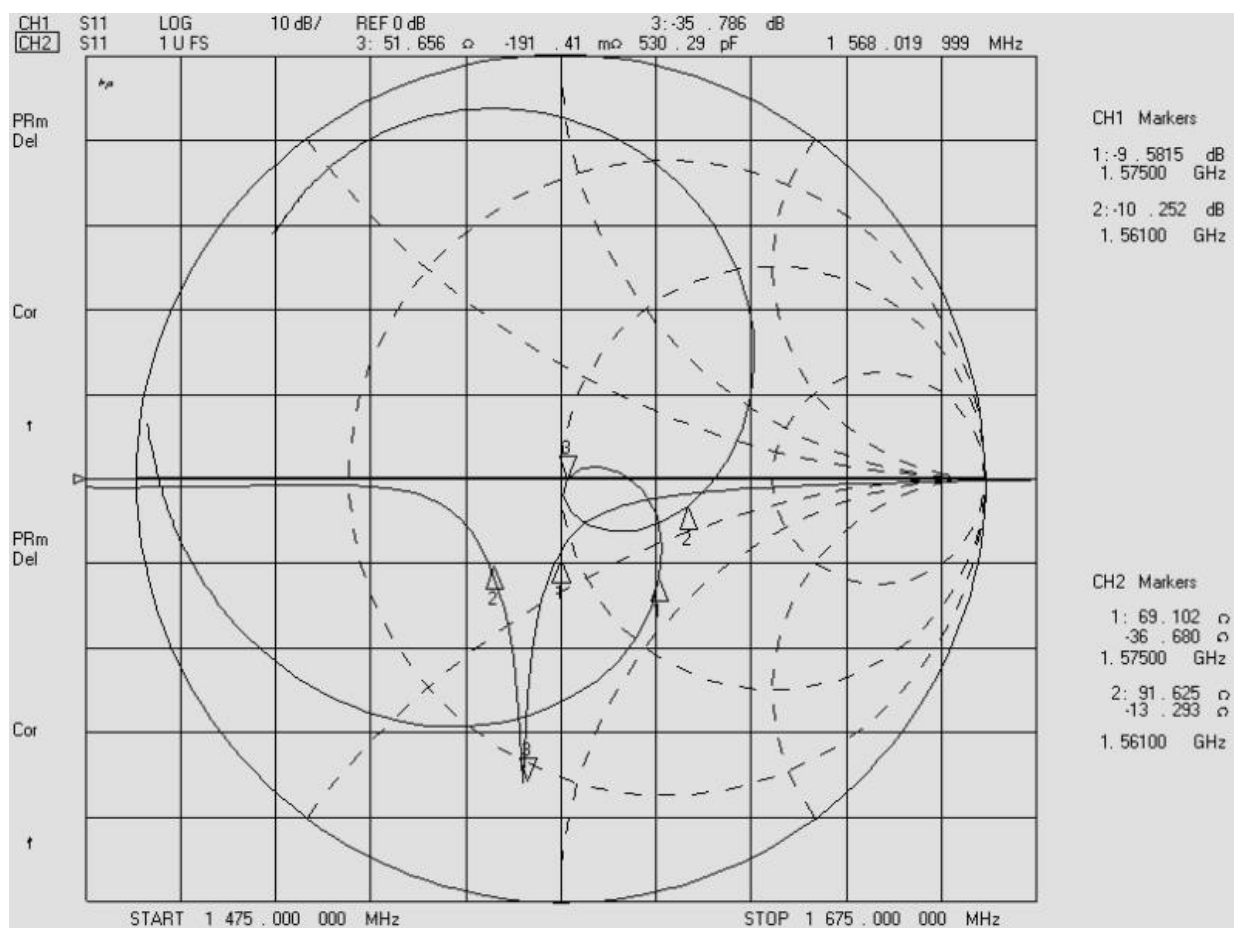
Technical specifications of TFGPS1540 antenna

This antenna is a GPS ceramic antenna, receiving GPS L1/ BD2 B1 band signals. It adopts right-handed spiral circular polarization design, and has the characteristics of low reflection loss, small axis ratio and high gain.

1. Characteristics of GPS dielectric antenna

Technical requirement	Technical index
Center Frequency	$1568 \pm 3\text{MHz}$
Gain	3 dBi
Horizontal covering Angle	360°
Output VSWR	1.5 maximum
Polarization	Right Hand Circular Polarization(RHCP)
Impedance	50Ω
Antenna axis ratio	$\leq 5\text{dB}$
10dB Band Width	$\pm 20\text{MHz}$

2 Impedance diagram



3 LAN 特性

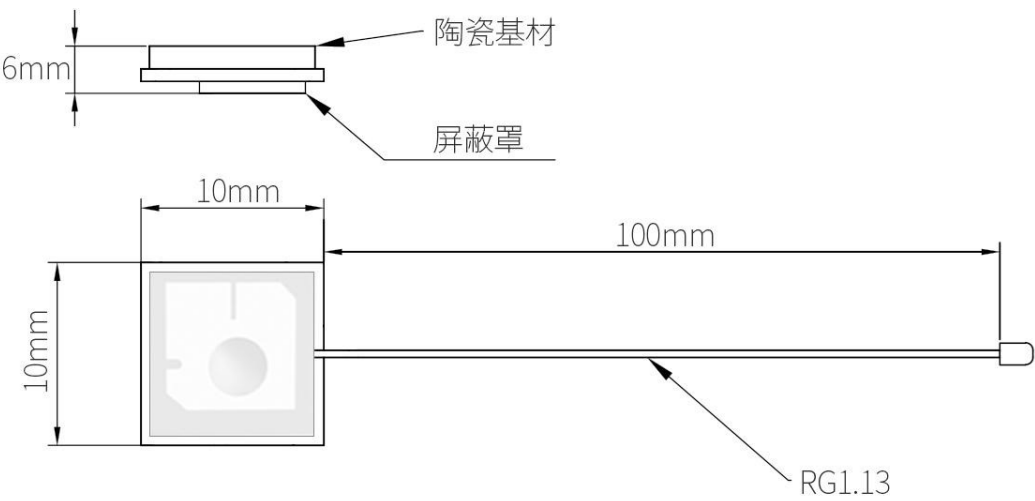
gain Out-of-band suppression (off center frequency) Operating voltage Working current Joints and wires Line length	$18 \pm 2\text{dBi}$
Noise coefficient	$\leq 2.0\text{dB}$
Output standing wave	≤ 2.0
In-band flatness	$\pm 1.0\text{dB}$
Output P1dB compression point	$\geq -10\text{dBm}$
Out-of-band suppression (off center frequency)	$> 35\text{dBc}$ (除 $1575 \pm 100\text{MHz}$ 外)
Operating voltage	3.3-5VDC
Working current	$\leq 10\text{mA}$
Joints and wires	IPEX I /1.13 Black

Line length	L=**mm(The distance from the edge of the antenna to the middle part of the connector core)
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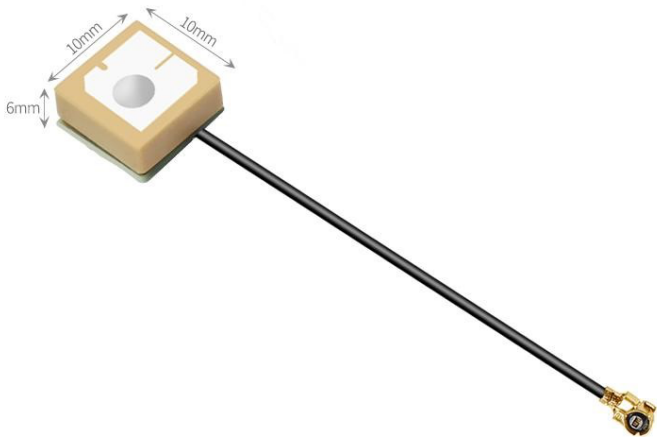
3 Environmental Characteristics

Operational Temperature	-25℃～+75℃
Storage Temperature	-40℃～+85℃
Humidity	40%～95%

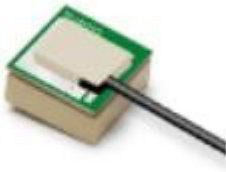
4 Antenna structure diagram



5 Physical picture



front



back