

Specifications

GPS+GLONASS Ceramic antenna

GL-DYS2502

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■ Feature

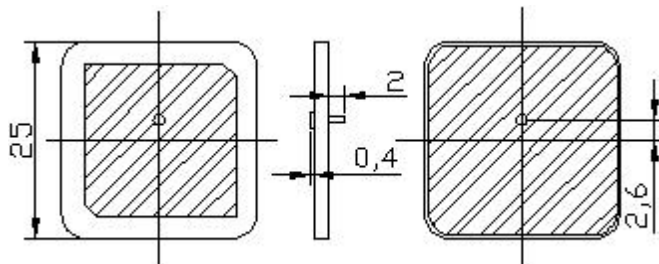
1. High Gain
2. Match Debugging
3. Pin type
4. Low loss、High Precise、High Reliability
5. Accord with ROHS Standard

■ Application

Mobile phones,hand-held navigators
 Locator、G-Mouse、GPS anti-theft alarm device
 Vehicular navigation、electronic dog、Internet of vehicles GPS、satellite positioning device
 Smart wearable、smart positioning devices for pets
 GPS navigation and positioning module

■ Dimensions

1、L: 25.0±0.2mm W: 25.0±0.2mm H: 4.0±0.1mm



1. Structure Material

Number	Name	Material
①	Antenna substrate	Microwave ceramics
②	pin	Copper tinned alloy
③	Electrodes	Silver
④	Ground plane	Silver

2. Electric Performance

表 1-1

No.	Item	Speciality
1	Center Frequency(70×70mm ² Ground)	1580±3MHz
2	Bandwidth	6MHz min(Return loss≤-10dB)
3	V.S.W.R(in Bandwidth)	1.5 max
4	Impedance	50Ω
5	Axial Ratio	3dB max
6	Gain	5dB Min. (7×7cm ground plane)
7	Polarization	Right-Handed Circularly Polarized

表 2-1

3. Spectrogram

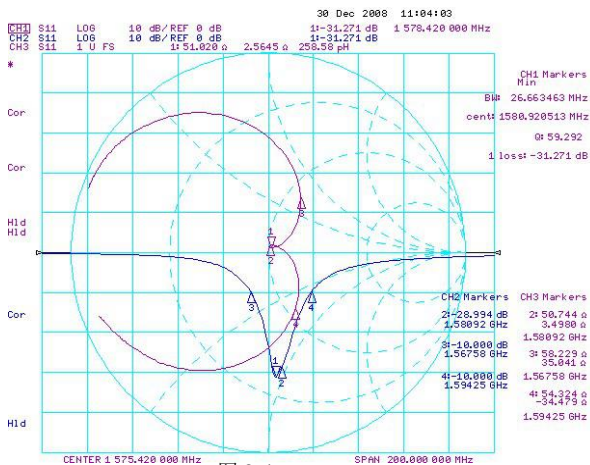


图 3-1

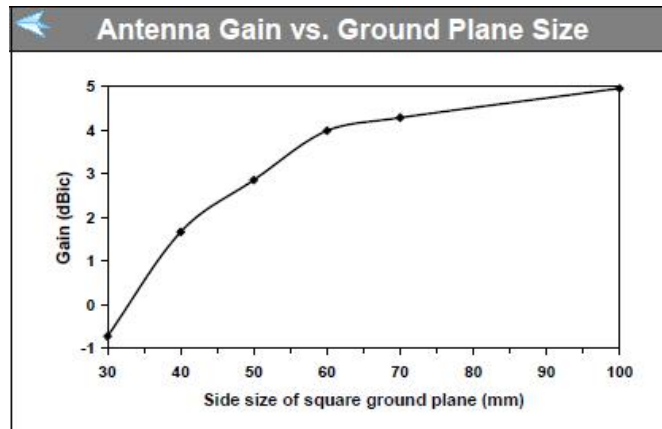
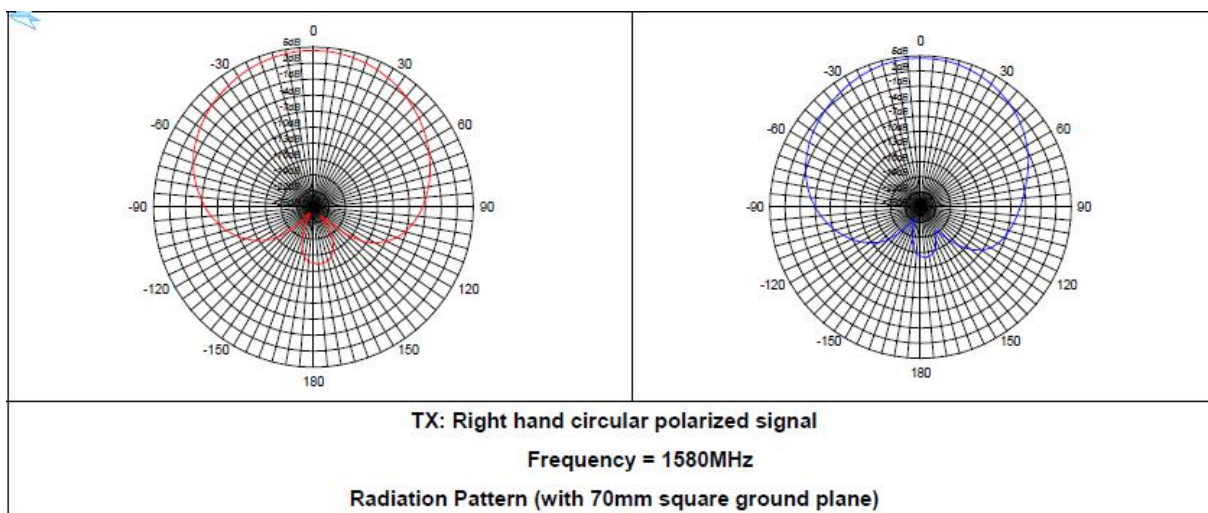


图 3-2



4. Verify and test procedures

4.1 Testing condition

- a. Temperature: $20 \pm 5^\circ\text{C}$;
- b. Humidity: $65 \pm 20\%$;
- c. Air pressure: 86KPa ~106KPa

4.2 Electric Testing

4.2.1 Center Frequency

- a. Testing equipment: HP8753ES;

4.2.2 bandwidth

- a. Testing Equipment: HP8753ES;

4.2.3 V.S.W.R

- a. Testing Equipment: HP8753ES;

4.3 The rate of electrical change after reliability experiment

No.	Item	Speciality	Error allowed
1	Center Frequency	1580MHz	±5MHz
2	Bandwidth	6MHz min(Return loss≤-10dB)	±0.5MHz
3	V.S.W.R(in Bandwidth)	1.5 max	±0.5
4	Gain	5dB Min. (7×7cm ground plane)	/
5	Axial Ratio	3dB max	/
6	Impedance	50Ω	/
7	Polarization	RHCP	/

表 4.5-1

5. Conditions of welding

Hand welding

- △ Soldering iron power: Max 30W
- △ Preheat: 150 °C / 60 sec.
- △ Solder Tip temperature: highest 350°C
- △ Welding time: at most 3 sec.
- △ Soldering tin: Sn/3.0Ag/0.5Cu
- △ Hand soldering: once at most

