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## Specifications

Product: GPS+GLONASS Ceramic antenna

P/N: GLS2502XCT(25\*25\*2mm)

Date: Nov 17<sup>th</sup>,2021

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**Description:**

It is passive ceramic antenna, and it can receive GPS L1 &GLONASS G1 band RHCP signal, small volume and high stability

**Application Environment**

Inland	yes	Indoor	yes
Coastal	yes	Outdoor	yes

**Technical Index**

- Guarantee period: 1 year
- Requirements: silver surface smooth,no pollution,no oxidation
- Ceramic body has no bump and pollution
- No oxidation of welding pin,good welding ability

**Performance Index**

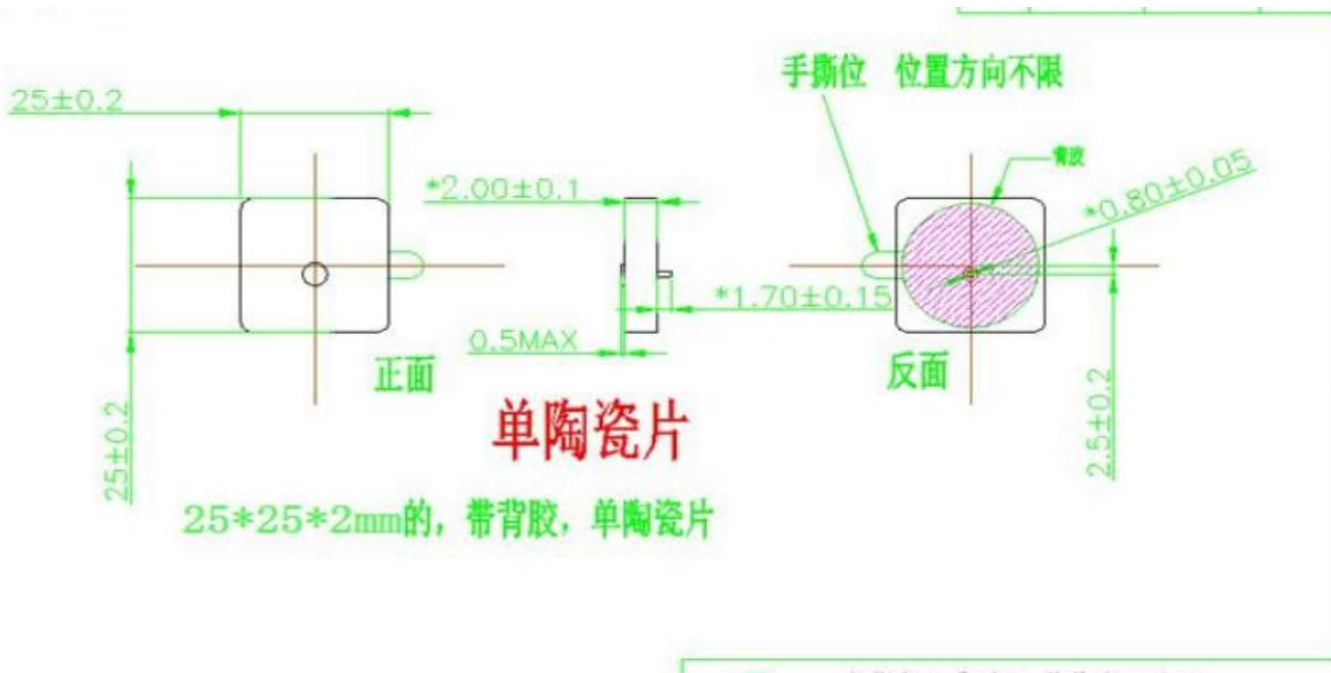
Technical requirements	Technical Index
Material name	Passive ceramic antenna
Frequency Range(MHz)	GPS :1575.42MHz GLONASS: 1602Mhz
Center Frequency(MHz)	1588±3MHz
Gain(dBi) (Gain at Zenith)	≥2dBi(connecting PCB)
Axial Ratio(dB)	≤5dB(Center Frequency)

Bandwidth(MHz)	20MHz min ( Return Loss@-10dB )
Output Impedance( $\Omega$ )	50 $\Omega$
V.S.W.R(dB)	<2
Return Loss(dB)	$\leq$ -15(1575.42MHz&1602MHz)
Vertical Beam width( $^{\circ}$ )	100 $\pm$ 10 $^{\circ}$
Horizontal Beamwidth ( $^{\circ}$ )	360 $^{\circ}$
Efficiency (%)	$\geq$ 57%@1575MHz
	$\geq$ 56%@1575MHz
Polarization	RHCP
Dimension (mm)	25*25*2

### Environmental adaptation

1	Working temperature[ $^{\circ}$ C]	-40~ 85
2	Working Temperature[ $^{\circ}$ C]	-40~ 85
3	Working Humidity[%]	40-95%

Product structure drawing



Outline Dimensions report:

Dimensions		1	2	3	4	5	6	7	8	9	Plus/Minus Tolerance
L	25	25.04	25.05	25.02	25.02	25.05	25.0	24.96	24.97	25.0	±0.2
W	25	25.02	25.04	25.04	25.03	25.04	24.98	24.99	24.96	24.98	±0.2
H	2	1.96	2	1.98	1.98	1.98	2	1.98	1.98	2.01	±0.1
L	1.8	1.85	1.86	1.87	1.85	1.85	1.86	1.86	1.86	1.84	±0.15
φ	0.8	0.79	0.78	0.78	0.79	0.79	0.8	0.8	0.8	0.8	±0.05
H	2.5	2.5	2.51	2.5	2.5	2.52	2.51	2.51	2.5	2.5	±0.2

8、Packing information

Packing step 1:

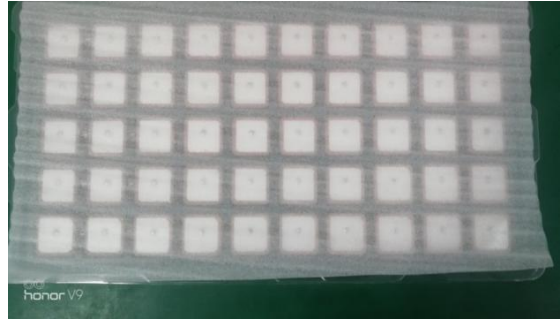
(50pcs/Layer, 8 layers/inner box)

Each layer

Double layers,protecting foam



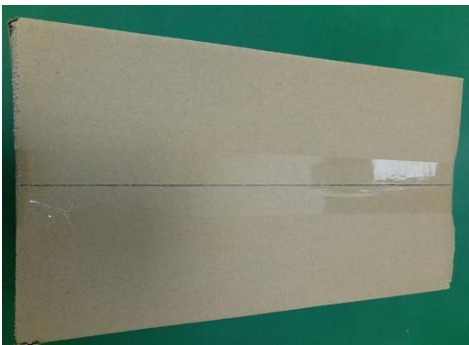
8 layers vacuum packing



8 layers packing and inner box



Packing step 2: (800pcs/inner box, 4 inner boxes/outer box)



Packing step 3: (3200pcs/outer box, 1 outer box=4 inner boxes)