

PRODUCT SPECIFICATION

Customer's part number: YNX-DAE1590-18182-MT
Product description: GPS/Glonass ceramic antenna
Issue Date: 2020-7-20
Note:

Customer Use		Customer's authorized signature	Remarks
Full approved			
Conditional approved			
Rejected			

**Shenzhen Yetnorson Technology Co., Ltd.**

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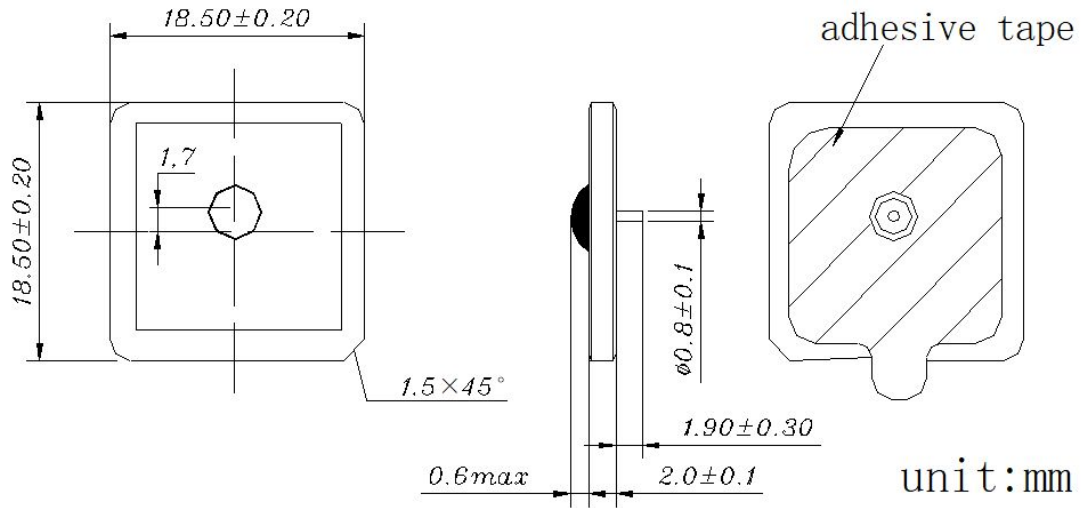
1. PRODUCT TECHNICAL SPECIFICATION

Items	Content
Nominal frequency MHz	1575~1608 (GPS : 1575, GLONASS : 1598~1608)
Center frequency MHz (without tape on 22×22mm ground plane)	1600.5±2.5
Gain @ Zenith, dBi	2.5
Return Loss at 1575 MHz max dB	-10
Return Loss at 1602 MHz max dB	-10
Impedance Ω	50
Polarization Model	RHCP
Frequency Temperature Coefficient	20ppm/deg.°C max

2. Impedance Characteristic



3. PRODUCT PICTURE

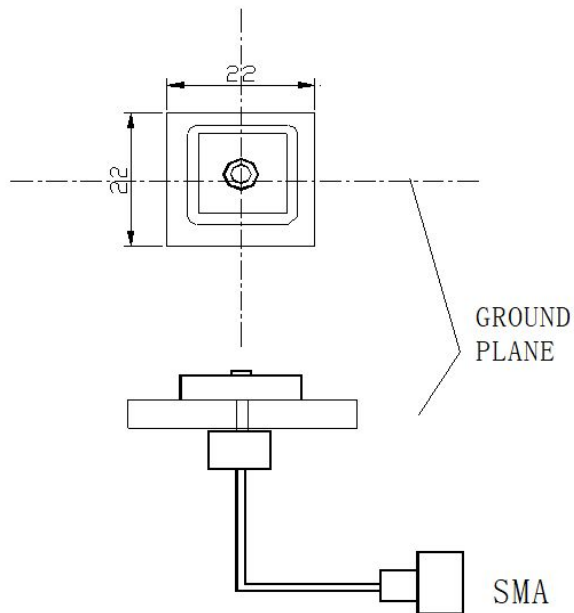


4 TEST

4.1 Test Conditions

Parts shall be measured under a condition (Temp.: $20^\circ\text{C} \pm 15^\circ\text{C}$, Humidity : $65\% \pm 20\%$ R.H.).

4.2 Test Jig



5. ENVIRONMENTAL TEST

Item	Test Condition	Remark
Humidity Test	The device is subjected to 90%~95% relative humidity $60^{\circ}\text{C}\pm 3^{\circ}\text{C}$ for 96h, then dry out at $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$ and less than 65% relative humidity for 2h~4h. After dry out the device shall satisfy the specification in table 1.	It shall fulfill the specifications in Table 1.
High Temperature Exposure	The device shall satisfy the specification in table 1 after leaving at 105°C for 96h, provided it would be measured after 2h~4h leaving in $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$ and less than 65% relative humidity.	It shall fulfill the specifications in Table 1.
Low Temperature	The device shall satisfy the specification in table 1 after leaving at -40°C for 96h, provided it would be measured after 2h~4h leaving in $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$ and less than 65% relative humidity.	It shall fulfill the specifications in Table 1.
Temperature Cycle	Subject the device to -40°C for 30 min. followed by a high temperature of 105°C for 30 min cycling shall be repeated 5 times. At the room temperature for 1h prior to the measurement.	It shall fulfill the specifications in Table 1.
Vibration	Subject the device to vibration for 2h each in x、y and z axis with the amplitude of 1.5mm, the frequency shall be varied uniformly between the limits of 10Hz~55Hz.	It shall fulfill the specifications in Table 1.
Soldering Test	Lead terminals are heated up to $350^{\circ}\text{C}\pm 10^{\circ}\text{C}$ for $5\text{s}\pm 0.5\text{s}$ with brand iron and then element shall be measured after being placed in natural conditions for 1 h. No visible damage and it shall fulfill the specifications in Table 1	It shall fulfill the specifications in Table 1.
Solder ability	Lead terminals are immersed in soldering bath of $260^{\circ}\text{C}\sim 290^{\circ}\text{C}$ for $3\text{s}\pm 0.5\text{s}$. More than 95% of the terminal surface of the device shall be covered with fresh solder.	The terminals shall be at least 95% covered by solder.
Terminal Pressure Strength	Force of 2kg is applied to each lead in axial direction for $10\text{s}\pm 1\text{s}$ (see drawing). No visible damage and it shall fulfill the specifications in Fig 1	Mechanical damage such as breaks shall not occur.

FIG 1

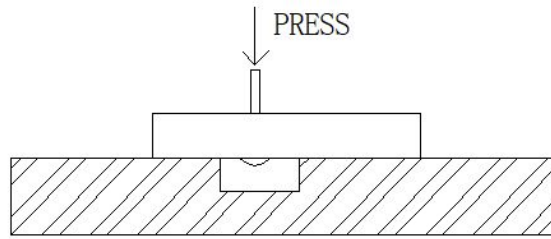


TABLE 1

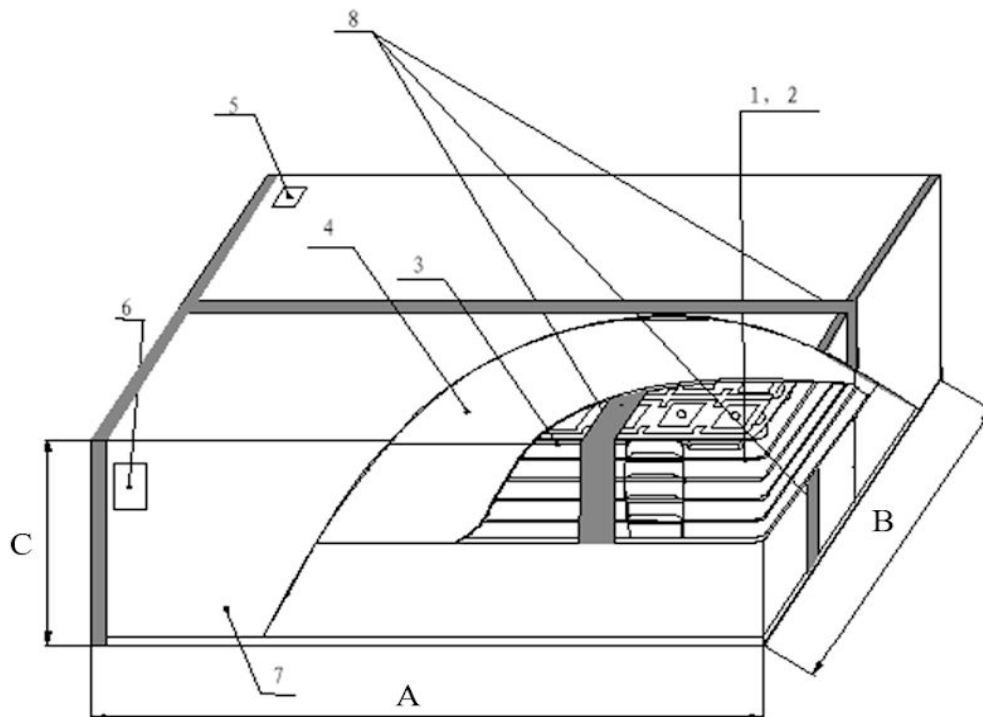
Item	Specification After Test (MHz)
Center Frequency change	± 2.0

6. PACKAGE

To protect the products in storage and transportation, it is necessary to pack them (outer and inner package). On paper pack, the following requirements are requested.

6.1 Dimensions and Mark

At the end of package, the warning (moisture proof, upward put) should be stick to it. Dimensions and Mark (see below)



A:355 B:315 C:190

NO.	Name	Quantity
1	Cushion	20
2	Package	24
3	Vacuum Bag	4
4	Inner Box	4
5	Label	5
6	Certificate of approval	1
7	Package Base	1
8	Adhesive tape	3.0m

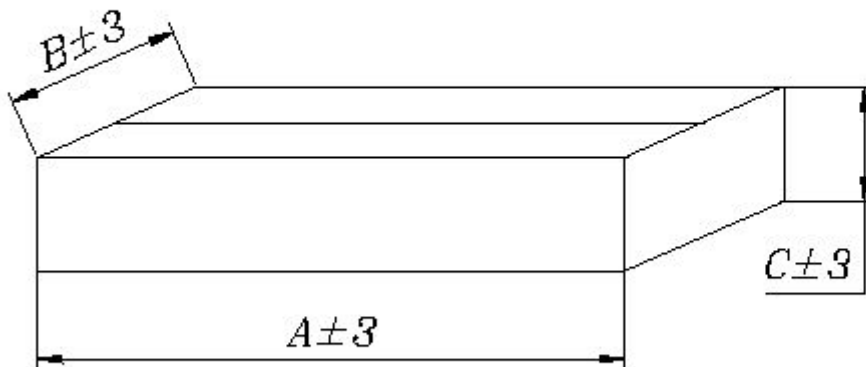
6.2 Section of package

Package is made of corrugated paper with thickness of 0.8cm. Package has 4 inner boxes, each box has 1 vacuum bag.

6.3 Quantity of package

Per package base 50 elements
 Per vacuum bag 6 package bases
 Per inner box 1 vacuum bag
 Per package 4 inner boxes
 (1000 pieces of elements)

4.4 Inner box Dimensions



A:300 B:170 C: 85

7. OTHER

7.1 Caution of use

7.1.1 Please don't apply excess mechanical stress to the component and terminals at soldering.

7.1.2 The component may be damaged when an excess stress will be applied.

7.1.3 This specification mentions the quality of the component as a single unit. Please insure the component is thoroughly evaluated in your application circuit.

7.2 Notice

7.2.1 Please return one of these specifications after your signature of acceptance.

7.2.2 When something gets doubtful with this specification, we shall jointly work to get an agreement

CERTIFICATE OF REGISTRATION



MOODY INTERNATIONAL CERTIFICATION

*This is to certify that the
Quality Management Systems of:*

深圳市雅诺讯科技有限公司

中国广东省深圳市龙岗区龙城街道爱联建新社区新坡路永成鞋厂永成三巷2号厂房4楼

经摩迪国际认证有限公司审核，其质量管理体系符合ISO 9001: 2000标准之要求。
在持续遵循有关认证条例的基础上，准予注册。此认证结果为国际认可论坛(IAF)质
量管理体系认证多边互认协议MLA成员认可。

本证书加贴年度监督防伪标签后，方为有效。

认证范围：通讯设备、通讯天线、车载电视天线的制造和销售。

注册号：**110512095**

For the Company



For the Governing Board

签发日期：2010年01月13日

有效日期：2013年01月12日

The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the Accreditation Certificate 014. The certificate remains the property of Moody International Certification Limited to whom it must be returned on request.

