

KC.DA.00162 ACTIVE ANTENNA SPECIFICATION**1. Application:**

This application should be applicable to antenna units used in conjunction with unmanned aerial vehicles

2. Appearance:

Antenna Unit (with radome, connector, and cable – refer to an attached drawing)

Dimensions $\Phi 28 \times 58.5 \text{mm}$

Radome $\Phi 28 \times 58.5 \text{mm}$

Output Connector SMA

Cable /

3. Operating Condition:

Operating Temperature $-40 \sim +85^{\circ}\text{C}$

Relative Humidity $20 \sim 95\% \text{ RH}$

4. Storage Condition:

Storage Temperature $-40 \sim +85^{\circ}\text{C}$

Relative Humidity $20 \sim 95\% \text{ RH}$

Recommended Storage condition Store in room condition as listed below: Temperature $-20^{\circ}\text{C} \sim +45^{\circ}\text{C}$, Humidity 80% Max.

5. Electrical Specification:

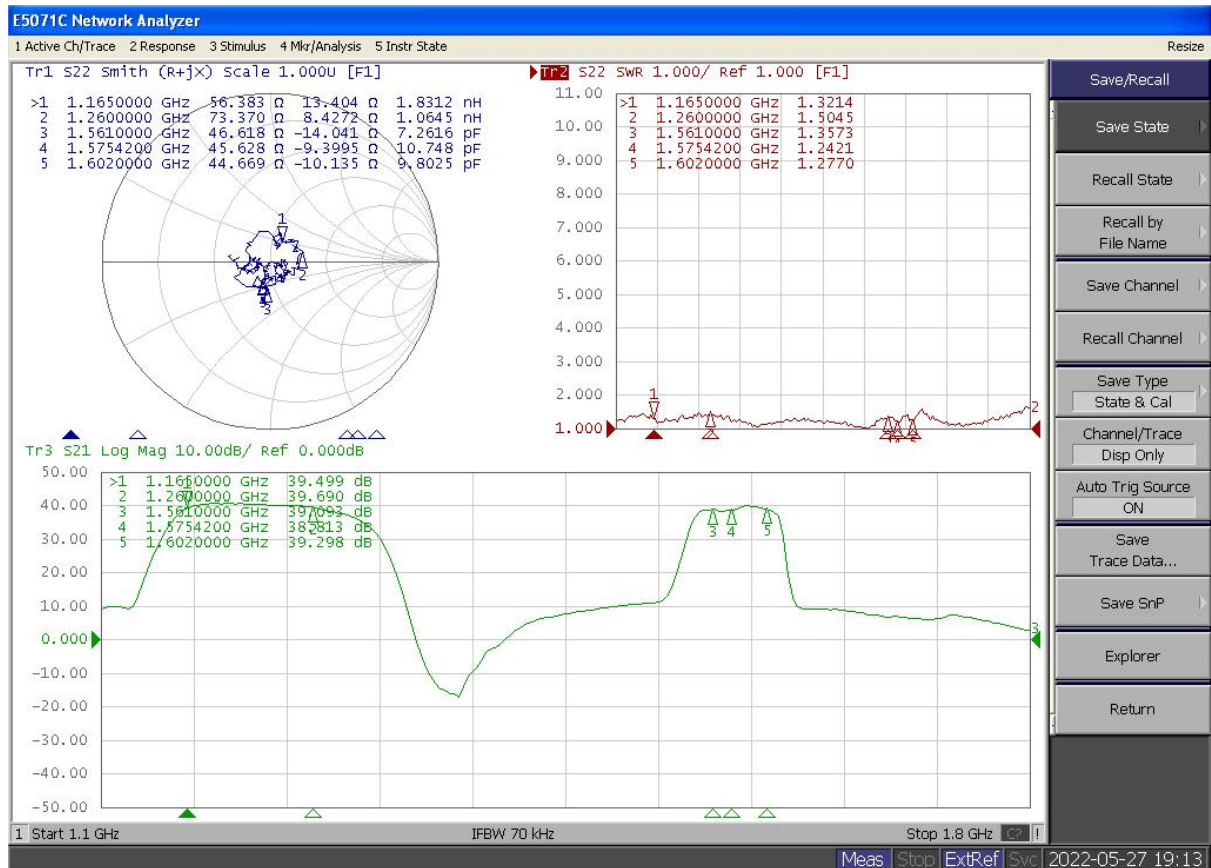
* All value are defined at $25 \pm 15^{\circ}\text{C}$, $65 \pm 20\% \text{ RH}$, power handling 10 watt, air pressure $960 \pm 100 \text{ HPA}$ unless otherwise noted.

* Antenna characteristics are measured with test housing in an anechoic chamber.

UNLESS OTHER SPECIFIED TOLERANCES ON: X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±			TOXU TECHNOLOGY CO., LTD.
SCALE:	UNIT: mm		
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5-1 GNSS LNA

Characteristics	Specification
Frequency Range	L1/L2/L5 1160~1260MHz/1550~1610MHz
Gain	39 dB typ.
Noise Figure	<2.5 dB
Output V.S.W.R	<1.6
Operation Voltage	3~10 V
Current	<35 Ma

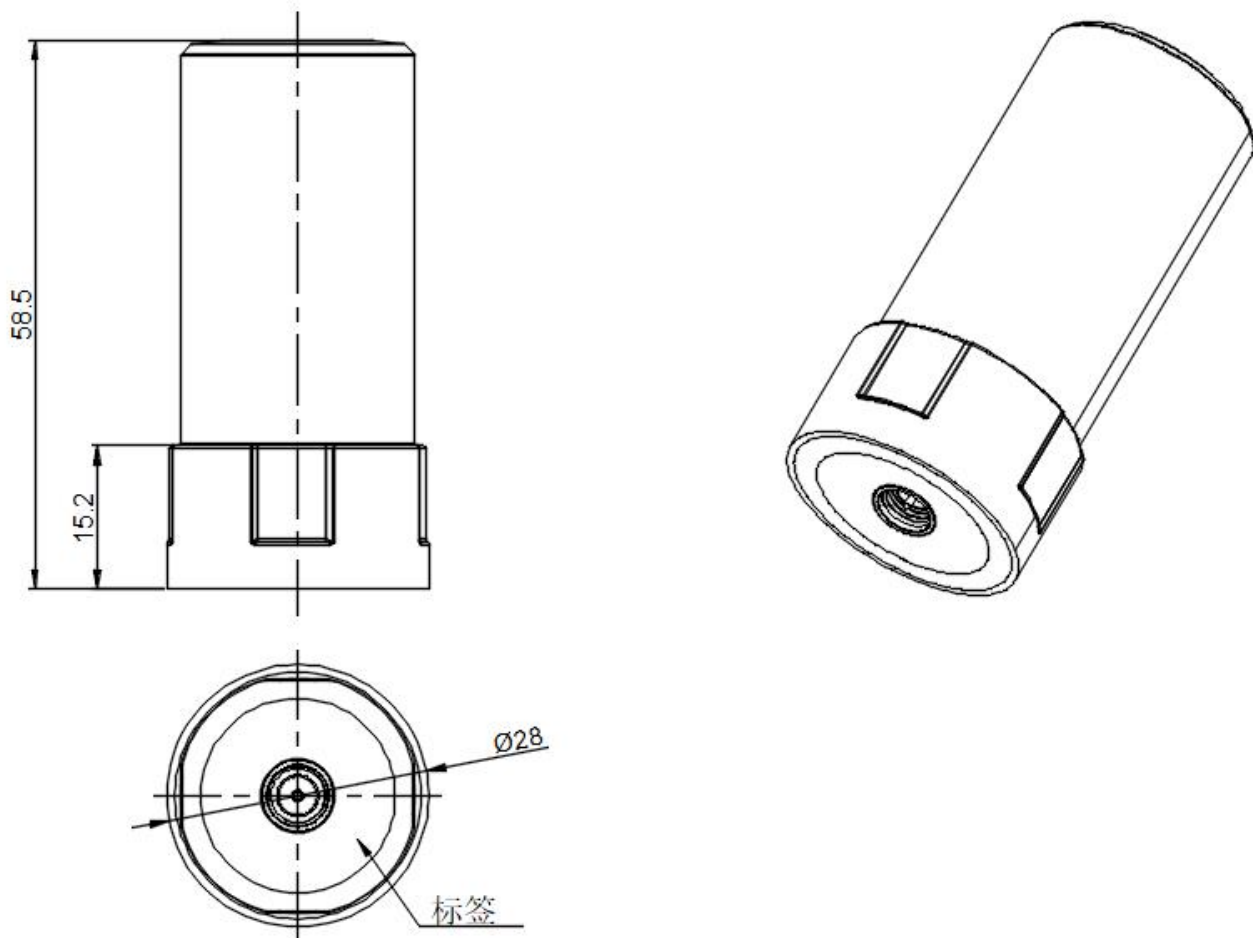


5-2 GNSS Overall Specifications (Through Antenna & LNA)

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Characteristics	Specification
Frequency Range	L1/L2/L5 1175~1268MHz/1550~1610MHz
Zenith Gain	42 dBic typ.
Output Impedance	50 ohm
Output VSWR	≤ 2
Operation Voltage	3~10V
Current	<35 Ma
Ex-band Rejection	50Db TYP.@CF $\pm$ 50MHZ
Environmentally friendly	ROHS Compliant

6. Antenna Dimension:



7. Product Image:

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