

KC.WA.00015 GA.0071.LG.04T**GPS&GLONASS ACTIVE ANTENNA SPECIFICATION****1. Application:**

This application shall apply for antenna unit which shall be used with an engine for automobile

2. Appearance:

Antenna Unit (with radome, connector, and cable – refer to an attached drawing)	
Dimensions	φ66.5*85mm
Radome	#S1-M
Output Connector	TNC
Cable	NA

3. Operating Condition:

Operating Temperature	-40 ~ +85°C
Relative Humidity	20 ~ 95% RH

4. Storage Condition:

Storage Temperature	-40 ~ +85°C
Relative Humidity	20 ~ 95% RH
Recommended Storage condition	Store in room condition as listed below: Temperature -20°C ~ +45°C, Humidity 80% Max.

5. Electrical Specification:

* All value are defined at 25±15°C, 65±20 % RH, power handling 10 watt, air pressure 960 ±100 HPA unless otherwise noted.

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

5-1 GNSS PATCH Antenna

Characteristics		Specification
Frequency Range		1575MHz~1606MHz
Center Frequency		1575&1602 ±3MHz
Bandwidth (10Db return loss)		50 MHz
Zenith Gain (on 100*100mm ground)	1575.42MHZ	5.0 dBic typ.
	1602MHz	5.0 dBic typ.
Polarization		R.H.C.P.
Axial ratio		4dB @90°, 6Db @20°
Dimension		25*25*6mm

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=± **X.X=±** **X.XX=±**

ANGLES=± **HOLEDIA=±**

TOXU

TOXU TECHNOLOGY CO., LTD.

SCALE:

UNIT: mm

DRAWN BY : XIN

CHECKED BY: YS

DESIGNED BY: De wen

APPROVED BY: YS

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TITLE: GA.0071.LG.04T GNSS ACTIVE ANTENNA SPECIFICATION

SPEC REV.

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5-2 GNSS LNA

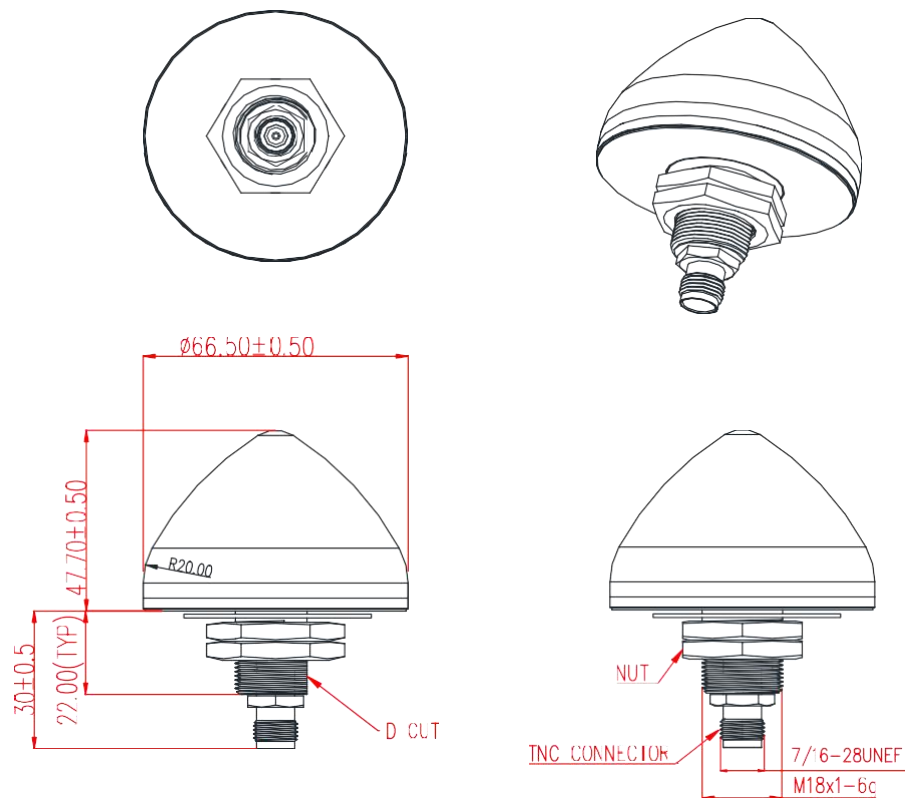
Characteristics	Specification
Frequency Range	1575MHz~1606MHz
Gain	41 dB typ.
Gain flatness	±2dB
Noise Figure	<2.5 dB
Output V.S.W.R	<1.5
Operation Voltage	2.7~10 V
Current	<25 Ma

5-3 GNSS Overall Specifications (Through Antenna & LNA)

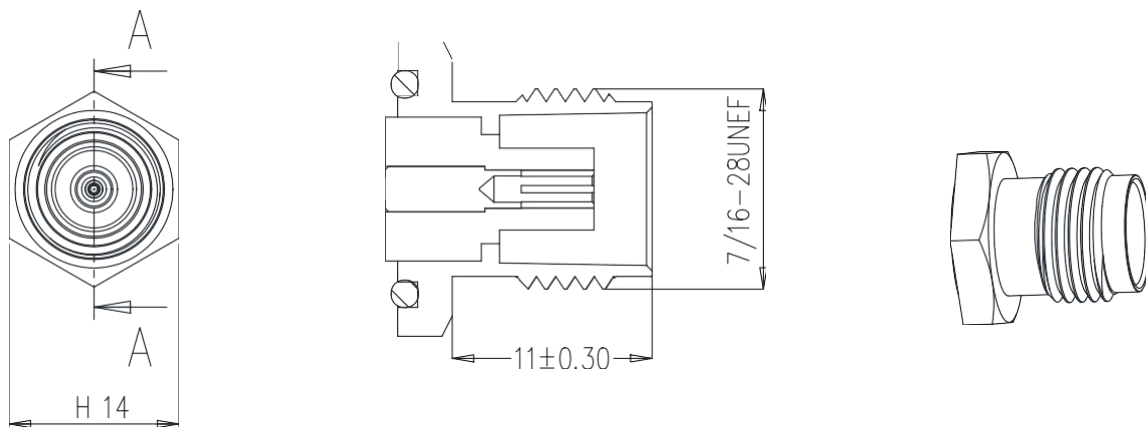
Characteristics	Specification
Frequency Range	1575MHz~1602MHz
Zenith Gain	41 dBic typ.
Output Impedance	50 ohm
Output VSWR	≤ 1.5
Operation Voltage	2.7~16V
Current	<25 Ma
Ex-band Rejection	50Db TYP.@CF±50MHZ
Mounting model	screw type
Water proof class	IP67 rated
Vibration	3 axis,10 to 200HZ, sweep 15min,3G
Shock	Vertical axis:50G, other axes:30G
ESD protection	15KV air discharge
Salt Fog/ Spray	MIL-STD-810F SECTION 509.4
Environmentally friendly	ROHS Compliant, CE, REACH, RED, Zamak White Metal

6. Antenna Dimension:

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7. Connector appearance: TNC CONNECTOR



8. Product Image:

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