

KC.GA.00117 GNSS 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	45.98*36.94*15.29mm
Radome	#S3W
Output Connector	SMA male head male needle nickel plating
Cable	RG-174 (black)

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		1560MHz~1580MHz
Center Frequency		1570 MHz
Bandwidth (10dB return loss)		20 MHz
Zenith Gain	1561.098MHZ	3.0 dBic typ.
	1575.42 MHz	3.0 dBic typ.
Polarization		R.H.C.P.

UNLESS OTHER SPECIFIED TOLERANCES ON : X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±		 TOXU TECHNOLOGY CO., LTD.
SCALE :	UNIT : mm	
DRAWN BY : XIN	CHECKED BY: YS	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION
DESIGNED BY: De wen	APPROVED BY: YS	
TITLE : KC.GA.00117GNSS ACTIVE ANTENNA SPECIFICATION		SPEC REV.
		P0

5-2 GNSS LNA

Characteristics	Specification
Frequency Range	1560MHz~1580MHz
Gain	28 dB TYP
Noise Figure	<1.5 dB
Output V.S.W.R	2.0 max
Operation Voltage	3.3 V
Current	<20 mA



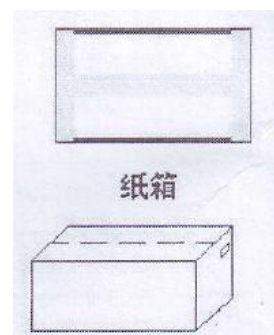
5-3 GNSS Overall Specifications (Through Antenna , LNA and cable)

Characteristics	Specification
Frequency Range	1560MHz~1580MHz
Zenith Gain	29 dBic typ
Output Impedance	50 ohm
Output VSWR	2.0 typ
Operation Voltage	3.3V
Current	<20 mA

UNLESS OTHER SPECIFIED TOLERANCES ON :		TOXU® 同讯技术	TOXU TECHNOLOGY CO., LTD.
X=±	X.X=±		
ANGLES=±		HOLEDIA=±	
SCALE :	UNIT : mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DRAWN BY : XIN	CHECKED BY: YS		
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.GA.00117GNSS ACTIVE ANTENNA SPECIFICATION			SPEC REV. P0

7 .Packaging specification

Product number: xxx			
Product model: xxx			
一、 Label requirements:			
Customer	xxx		
supplier	xxxxxx		
Material coding	xx		
Product model	xx		
Number	XXX PCS	Factory date	X X X
Remarks			
二、 Boxing:			
Job description:			
PE 袋			
1. Inner packaging:			
XXpcs A bag			
2. External packaging:			
Xx PCS ;			
3. Matters needing attention:			
a. Whether to add partition and pearl cotton;			
b. Label attachments, such as ROHS, etc.;			



UNLESS OTHER SPECIFIED TOLERANCES ON : X=± X.X=± X.XX=± ANGLES=± HOLEDIA=±		TOXU® 同讯技术	TOXU TECHNOLOGY CO., LTD.
SCALE :	UNIT : mm		
DRAWN BY : XIN	CHECKED BY: YS	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION	
DESIGNED BY: De wen	APPROVED BY: YS		
TITLE : KC.GA.00117GNSS ACTIVE ANTENNA SPECIFICATION			SPEC REV.
			P0