KEESUN
麒新弘泽

# Antenna
# GP00101 Datasheet

**Antenna Services**

Version:1.0

Date: 2026-1-15

Status: Released



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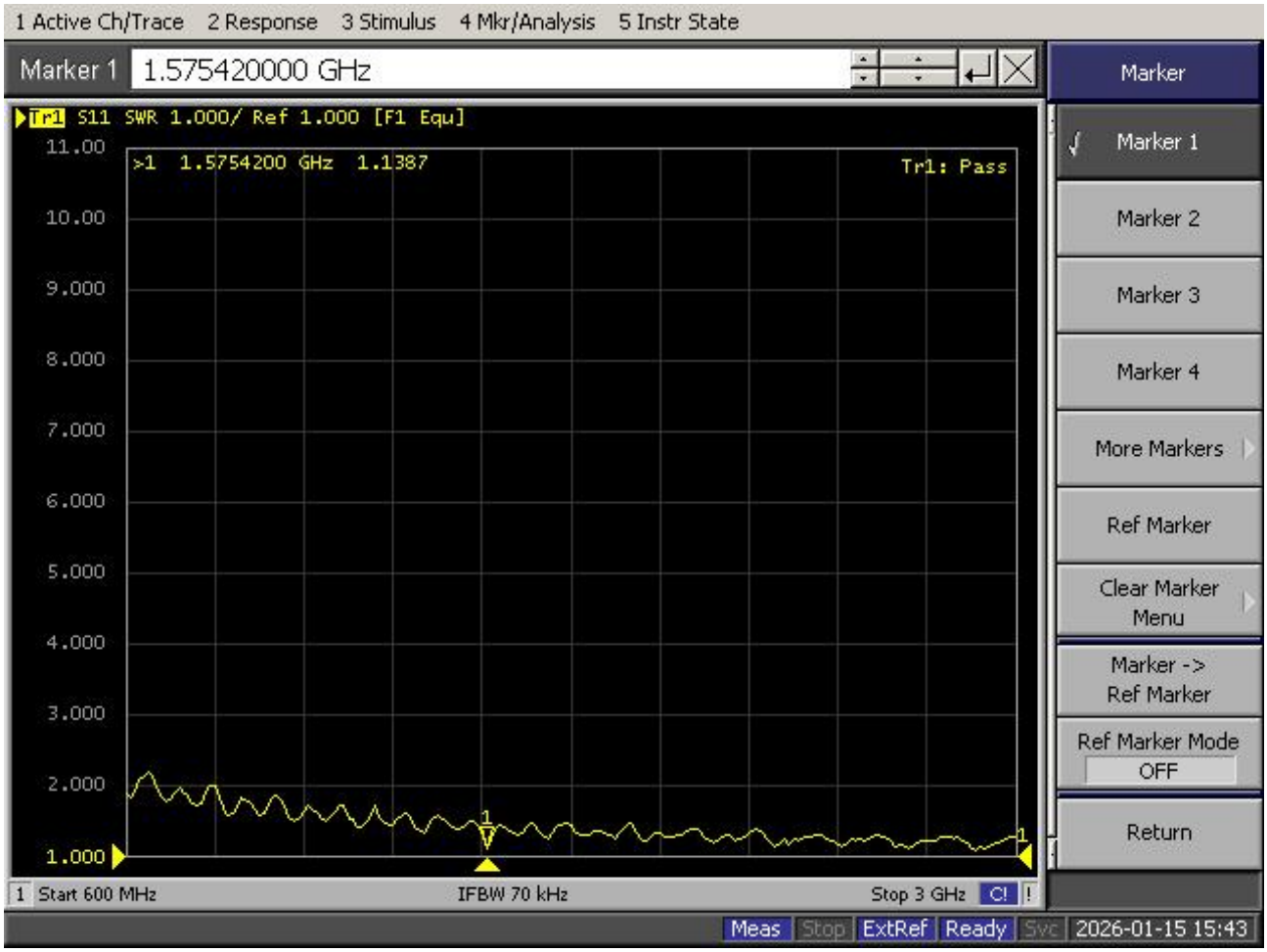
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# 1.Product Specifications(GPS+4G)

| Structural/performance characteristics | |
|---|---|
| Model | GP00101 |
| Frequency band | GPS+4G |
| Gain | 28dB±2/4dBi |
| VSWR | ≤2.0 |
| Weight | ＜300g |
| Impedance | 50Ω |
| Dimension(mm) | 80*50mm |
| Cable | RG174 Cable |
| Cable Length | 1.5m |
| Fixed method | 18*2 single-sided strong magnetic field |
| Connector | SMA MALE |
| **Environmental characteristics** | |
| Working temperature | -40℃~+65℃ |
| Limit temperature | -40℃~+65℃ |
| Relative humidity | 10% to 95% RH |

# 2.GPS(VSWR)

| Frequency (GHz) | 1.575.42 |
|---|---|
| VSWR | 1.1387 |




# 3.Antenna Return loss(GPS)

| Parameter | Specification |
|---|---|
| Frequency | 1575.42±3MHz |
| Bandwidth | >16MHz |
| Maximum gain | 5.0 dBi |
| VSWR | < 1.92 |
| Polarization mode | Right-hand circular polarization |
| Impedanc | 50 Ω |

## Performance indicators of low-noise amplifier (LNA)

| Parameter | Specification |
|---|---|
| Noise coefficient | 1.5dB Typ (25℃±5℃) |
| Input standing wave | < 2.0 |
| Output standing wave | < 2.0 |
| Voltage | DC - 3.3-5 v |
| Current | 8-15mA (Measuring voltage 3.3V) |
| Impedance | 50 Ω |



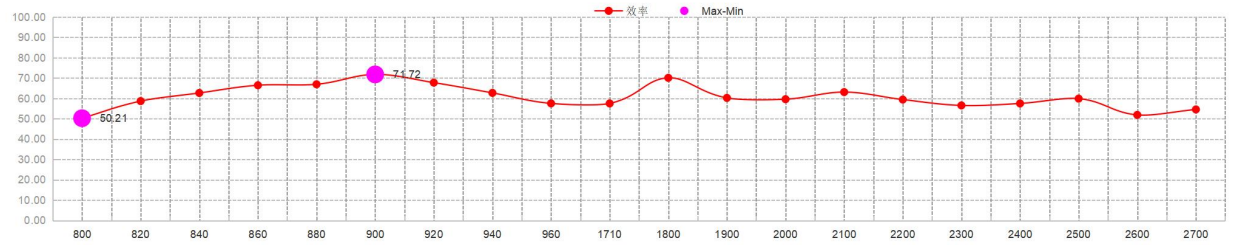
# 4. Network analyzer VSWR(4G）

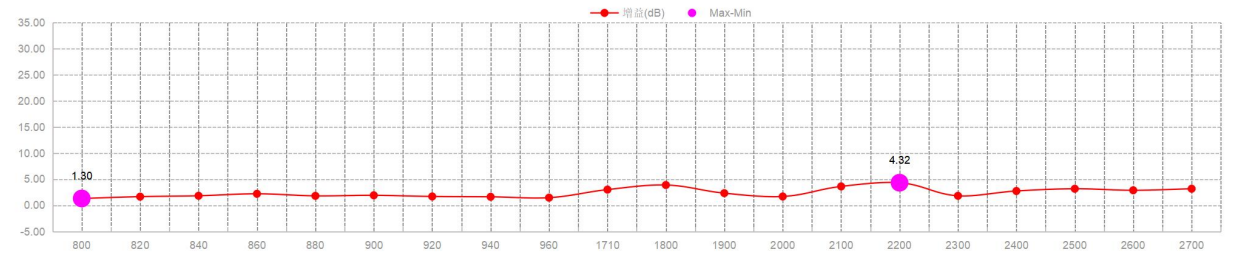


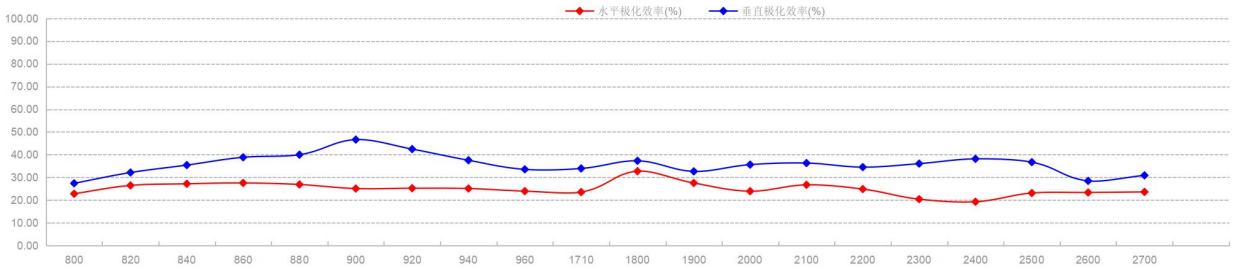
# 5. Gian (4G）

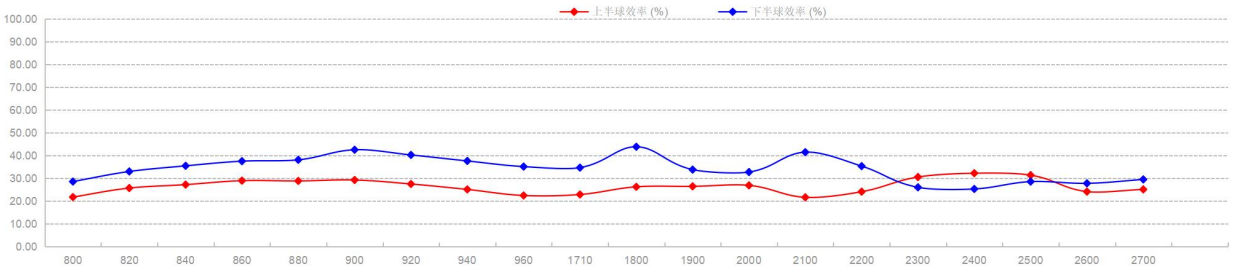
2025年9月4日 13:50

| 序号 N.O. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 频率Frequency(MHz) | 800 | 820 | 840 | 860 | 880 | 900 | 920 | 940 | 960 | 1710 | 1800 | 1900 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 | 2600 | 2700 |
| 效率Efficiency (dBi) | -2.99 | -2.32 | -2.03 | -1.78 | -1.75 | -1.44 | -1.69 | -2.03 | -2.40 | -2.41 | -1.55 | -2.20 | -2.25 | -2.00 | -2.26 | -2.48 | -2.41 | -2.23 | -2.85 | -2.63 |
| 增益Gain (dBi) | 1.30 | 1.65 | 1.82 | 2.20 | 1.80 | 1.91 | 1.69 | 1.62 | 1.46 | 3.00 | 3.88 | 2.32 | 1.69 | 3.61 | 4.32 | 1.81 | 2.74 | 3.16 | 2.87 | 3.16 |
| 效率Efficiency (%) | 50.21 | 58.62 | 62.61 | 66.41 | 66.87 | 71.72 | 67.69 | 62.65 | 57.49 | 57.47 | 70.04 | 60.19 | 59.55 | 63.04 | 59.38 | 56.49 | 57.46 | 59.83 | 51.84 | 54.52 |
| 方向性Directionality(dB) | 4.29 | 3.97 | 3.86 | 3.98 | 3.55 | 3.35 | 3.38 | 3.65 | 3.86 | 5.41 | 5.43 | 4.53 | 3.94 | 5.61 | 6.58 | 4.29 | 5.14 | 5.39 | 5.72 | 5.80 |

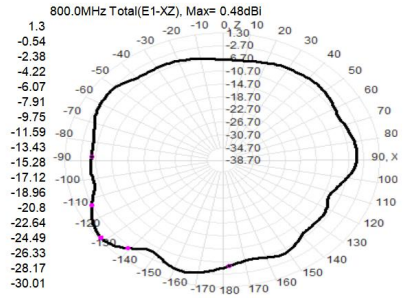


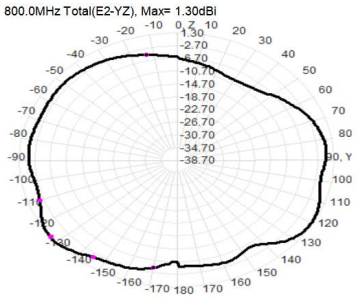



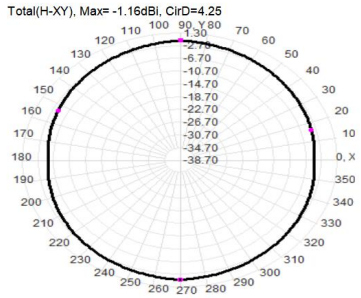



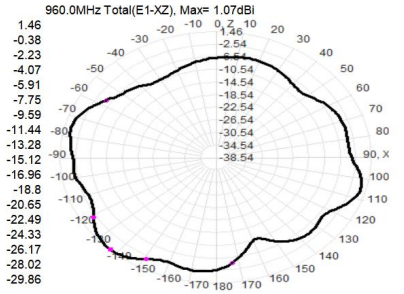



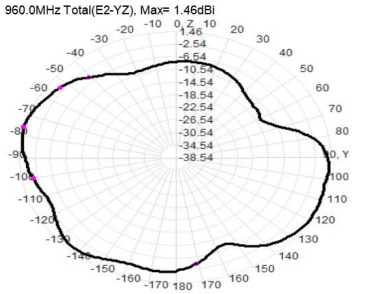
# 6.2D Report (4G）

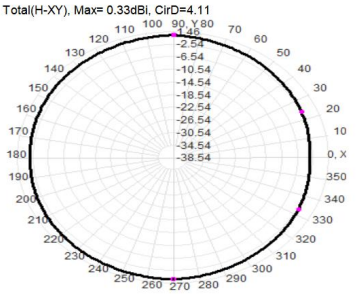


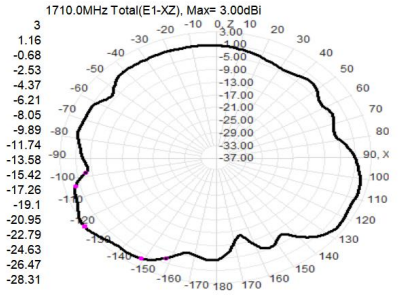



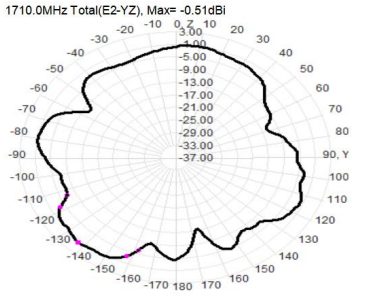



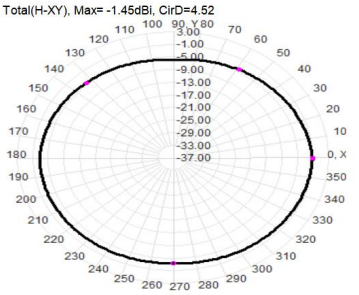



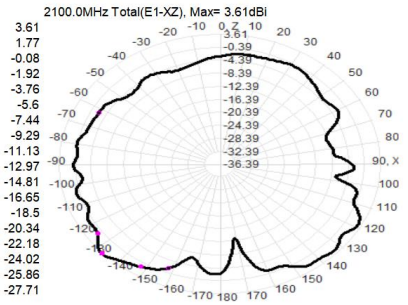



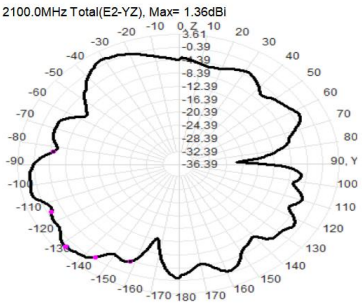



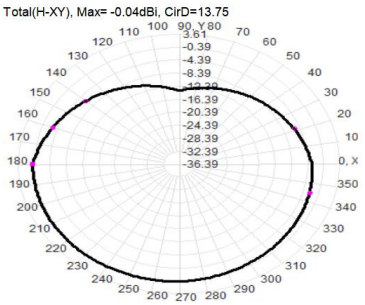



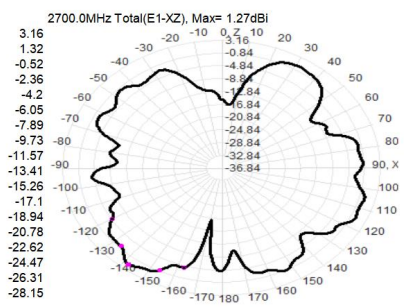



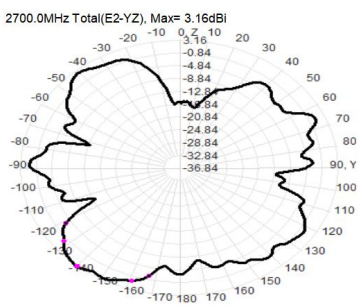



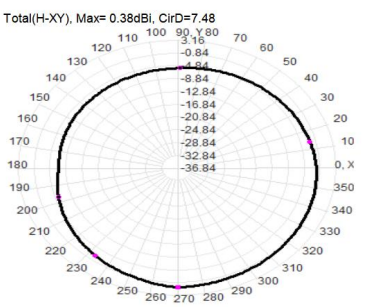



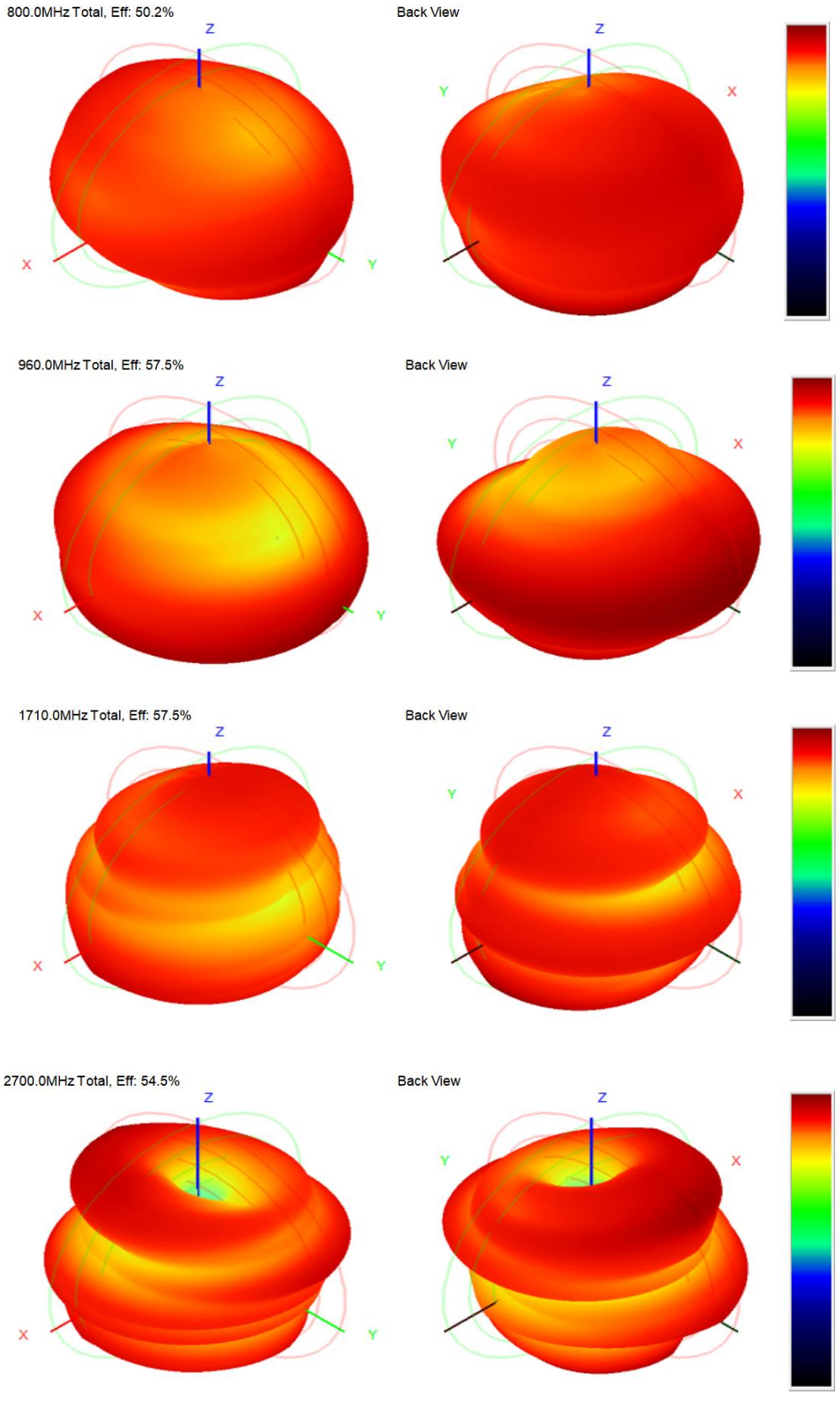



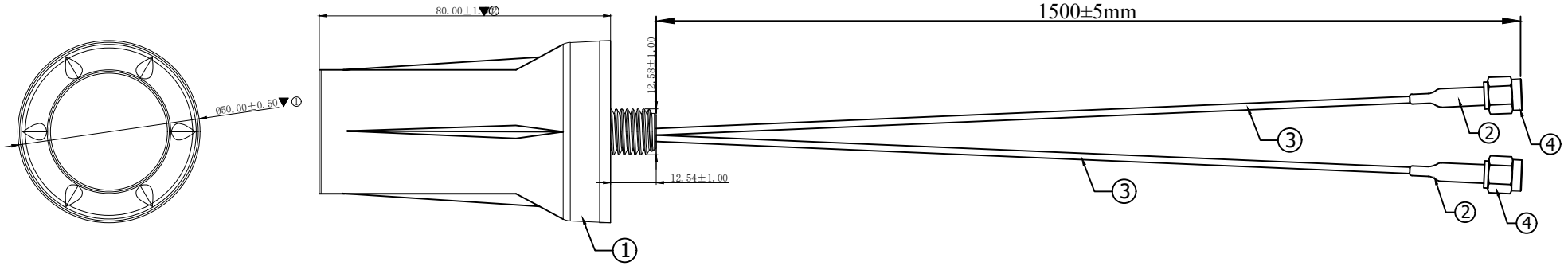
# 7.3D Report (4G)

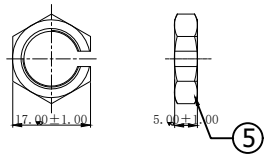


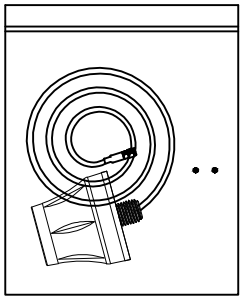
# Drawing

ROHS

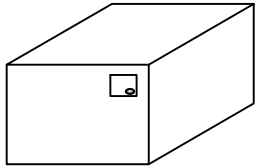
| REV. | DESCRIPTION | DATE |
|---|---|---|
| A | News | 2026.5.20 |



Packing1:pcs/bag



1.1PCS/ROHS label shall be affixed to the outer carton label
2.The outer carton shall be labeled with 1PCS/ outer carton on the upper right corner of the outer carton

Specification:
Frequency Rang:4G/GPS
Impedance:50Ω
VSWR:1.92or Less
INSERTION LOSS:-10dB min

| NO | DESCRIPTION | | Q'TY | REMARK |
|---|---|---|---|---|
| 5 | Nut | Nickel-plated nut 5*17mm | 1 | |
| 4 | Connector | SMA Male(Gold plating ) | 1 | |
| 3 | Cable | RG174 Black 50Ω | 1 | |
| 2 | H.S Tube | Heat Shrink Tube,ø6.0*20mm | 1 | |
| 1 | Antenna | 50*80mm ABS Black | 1 | |

| | |
|---|---|
| TITLE: | Cabinet antenna |
| P/N: | GP00101 |
| CUSTOMER: | |
| DRAW NO.: | |

DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED

一般公差 TOLERANCE

| | | | |
|---|---|---|---|
| .XXX | ±0.05 | XX. | ±1.0 |
| .XX | ±0.1 | | |
| .X | ±0.2 | | |
| X. | ±0.5 | | |

KEESUN
Shenzhen Keesun Technology Co.,Ltd.

| | | | |
|---|---|---|---|
| SHEET: 1/1 | SCALE: 1:1 | APPROVED | |
| UNIT: mm | REV.A | CHECKED | |
| | | DRAWED | Julia |