

[illegible]

B.1.01.Y.1016 Specification

1. Explanation of part number :

B.1 : 01 : Y : 1016
(1) (2) (3) (4)

(1) Product Type : Wireless Antenna

(2) Material : FPC

(3) State : PVT

(4) Serial number:1016

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS,WIFI	1575.42Mhz , 2400-2500Mhz

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

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海通通讯

浙江海通通讯电子股份有限公司

SCALE :

UNIT : mm

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CHECKED BY : 马浩

DESIGNED BY : 马浩

APPROVED BY : 廖建

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PAGE REV.

A0

2-3. S11 ,Efficiency , and Active Data :

2-3.1 S11:

Frequency Band	1575.42	2400	2500		
2-3-1 Typical Value:	-12.2	-11.4	-12.2		
2-3-2 Measuring Method	1. A 50Ω coaxial cable is connected to the fpcb antenna. Then this cable is connected to a network analyzer to measure the VSWR. 2. Keeping this jig away from metal at least 20 cm.				
2-3-3 Picture					

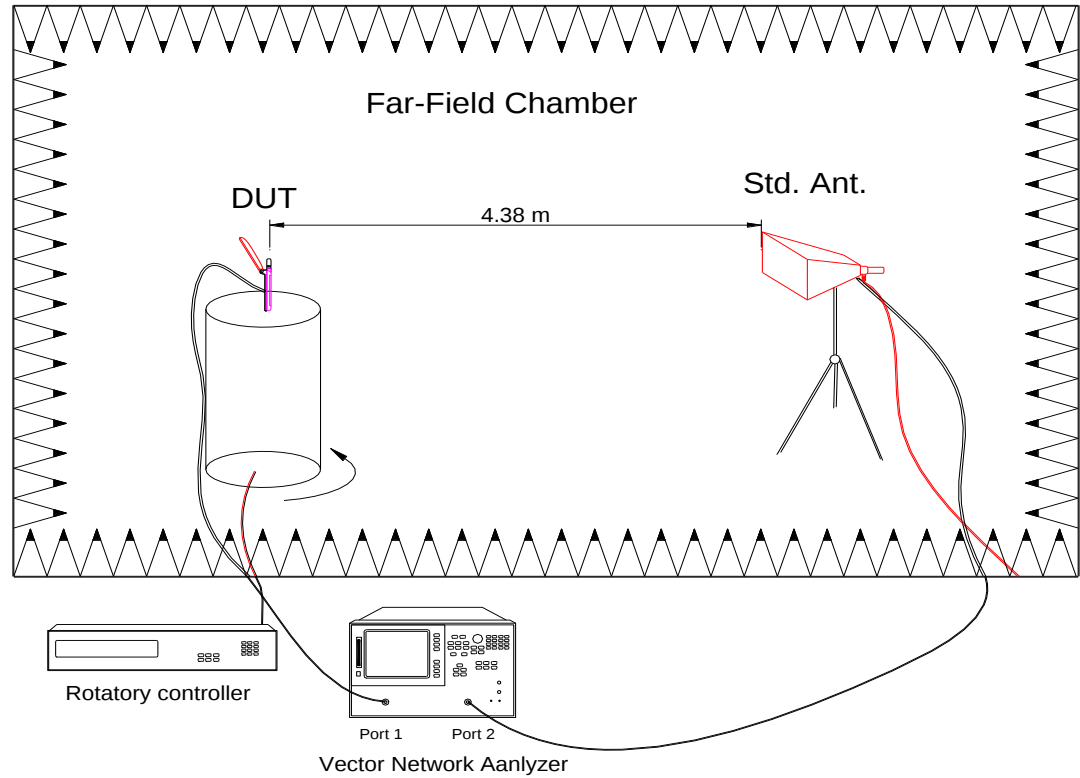
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2-4. Measure and Chamber

2-4-1 Measure method

- 1. Using a low loss coaxial cable to link a standard handset jig
- 2. Fixed this handset jig on chamber's rotator plane
- 3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
- 4. Using another standard gain horn antenna to calibrated those data

2-4-2 Chamber definition



- 1. An anechoic chamber (8mx4mx3.5m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m
- 4. Probing antenna (9120D horn antenna) and standard gain horn antenna (BBHA9120 LPF 700MHz ~6GHz)

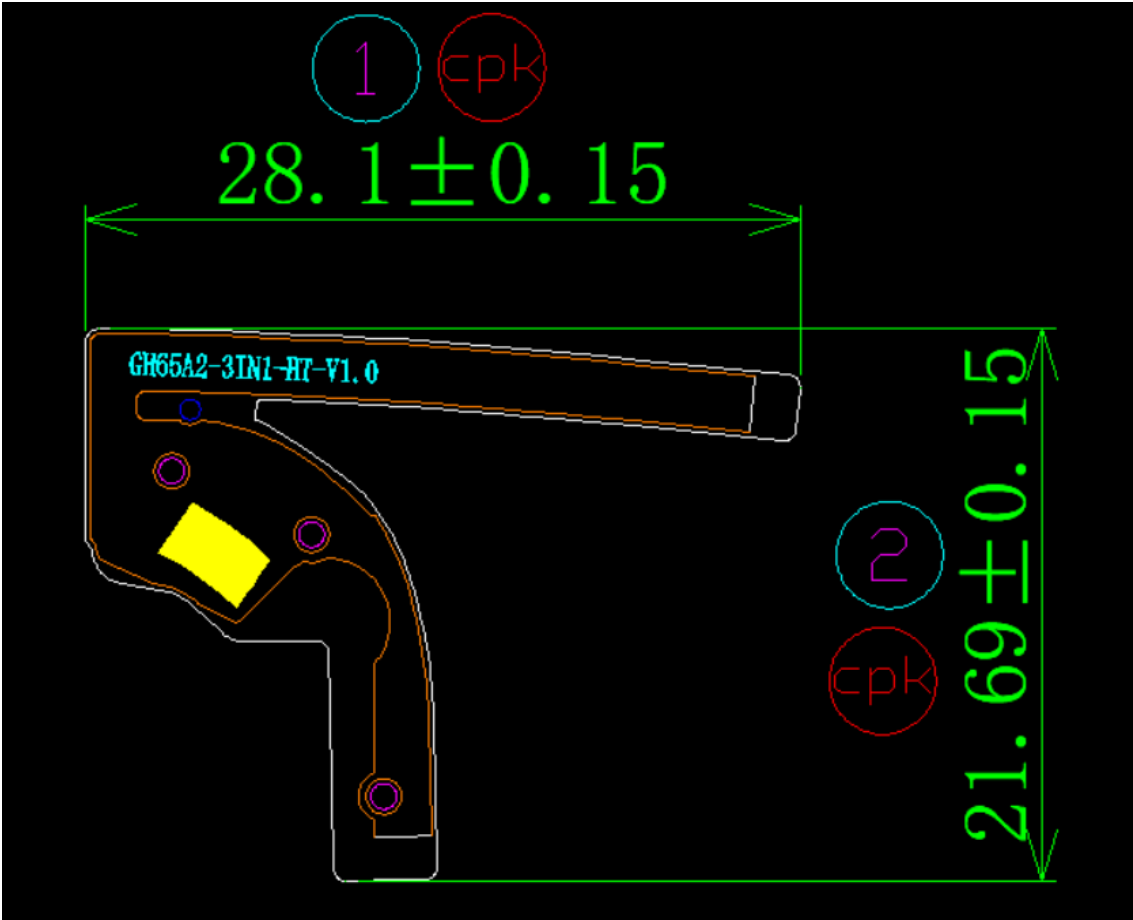
UNLESS OTHER SPECIFIED TOLERANCES ON : X=±2 X.X=±0.1 X.XX=±0.05 ANGLES=± HOLEDIA=±		NHAIT 浙江海通通讯电子股份有限公司 海通通讯	
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2-4-3 Antenna Efficiency

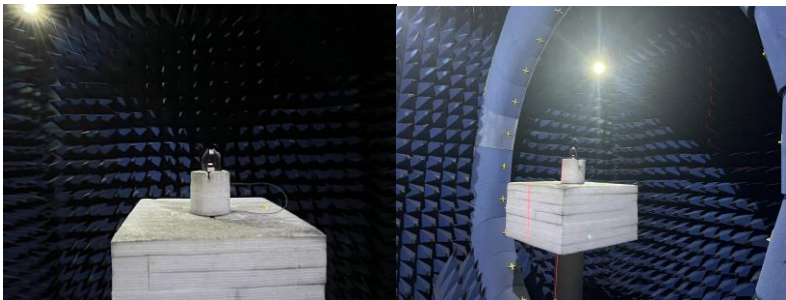
Frequency	Efficiency	Efficiency (dB)	Gain (dBi)
1550	35%	-4.59	0.59
1555	35%	-4.59	0.65
1560	35%	-4.6	0.73
1565	35%	-4.56	0.83
1570	35%	-4.57	0.86
1575	35%	-4.55	0.92
1580	35%	-4.58	0.97
1585	35%	-4.59	1.06
1590	35%	-4.58	1.15
1595	36%	-4.48	1.26
1600	37%	-4.33	1.31
2400	29%	-5.37	-0.19
2410	29%	-5.31	-0.12
2420	29%	-5.32	-0.2
2430	29%	-5.34	-0.41
2440	29%	-5.36	-0.69
2450	28%	-5.48	-0.93
2460	28%	-5.54	-1.05
2470	27%	-5.71	-1.21
2480	26%	-5.79	-1.25
2490	26%	-5.83	-1.22
2500	25%	-6.03	-1.33

UNLESS OTHER SPECIFIED TOLERANCES ON : $X=\pm 2$ $X.X=\pm 0.1$ $X.XX=\pm 0.05$ ANGLES=± HOLEDIA=±		 浙江海通通讯电子股份有限公司 海通通讯	
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3. Antenna
Dimensions:

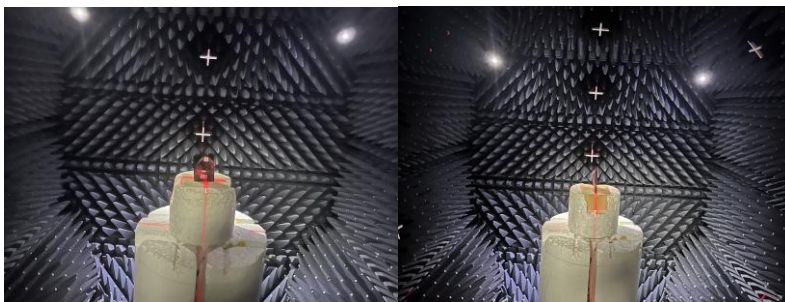


4.
Testing Environment
Passive Test

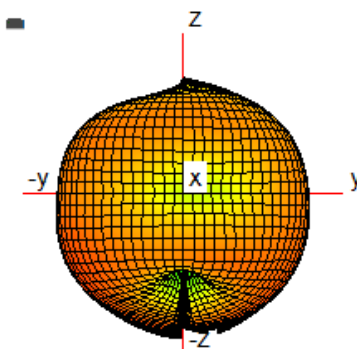


Active Test

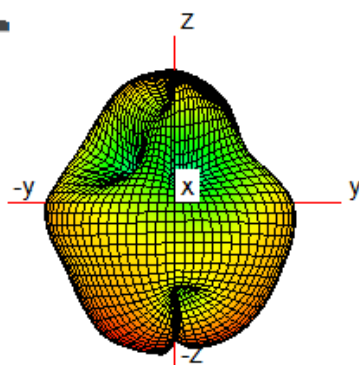
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5. 3D Radiation Pattern
GPS [1575MHz]



BT/WiFi 2.4GHz C0 [2400MHz]



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ANGLES=±

HOLEDIA=±

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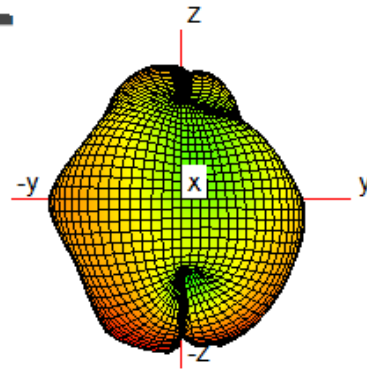
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BT/WiFi 2.4GHz C0 [2483MHz]



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ANGLES=± HOLEDIA=±

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