

品名：**GH6511-GPS-ANT-V2.0**

History List

[illegible]

GH6511-GPS-ANT-V2.0

Specification

1. Explanation of part number :

GH6511 **–** **GPS-ANT** **–** **V2.0**

(1) (2) (3)

(1) Model Name : GH6511

(2) Frequency : 1575.42Mhz, 2400-2500 MHz,5150-5850MHz

(3) Suffix :V2.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS,WIFI	1575.42Mhz, 2400-2500MHz,5150-5850MHz

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON:

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES = $\pm$

HOLEDIA=±



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SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

SCALE:

UNIT: mm

DRAWN BY: 黃土勇

CHECKED BY: 肖坤雄

DESIGNED BY: 苏汉鹏

APPROVED BY: 王伟

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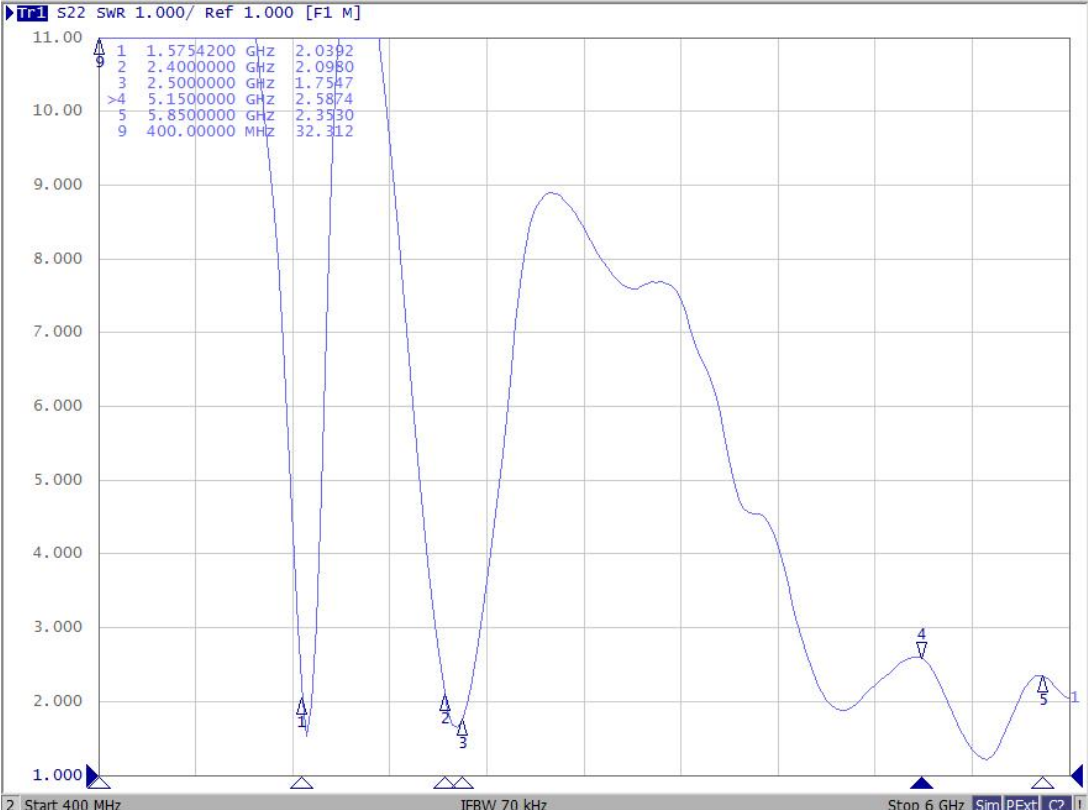
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2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	1575.42	2400	2500	
2-3-1. Typical Value:	≤ 2	≤ 3	≤ 3.5	
2-3-2Measuring Method	1. A 50 Ω 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.			
2-3-3Picture				

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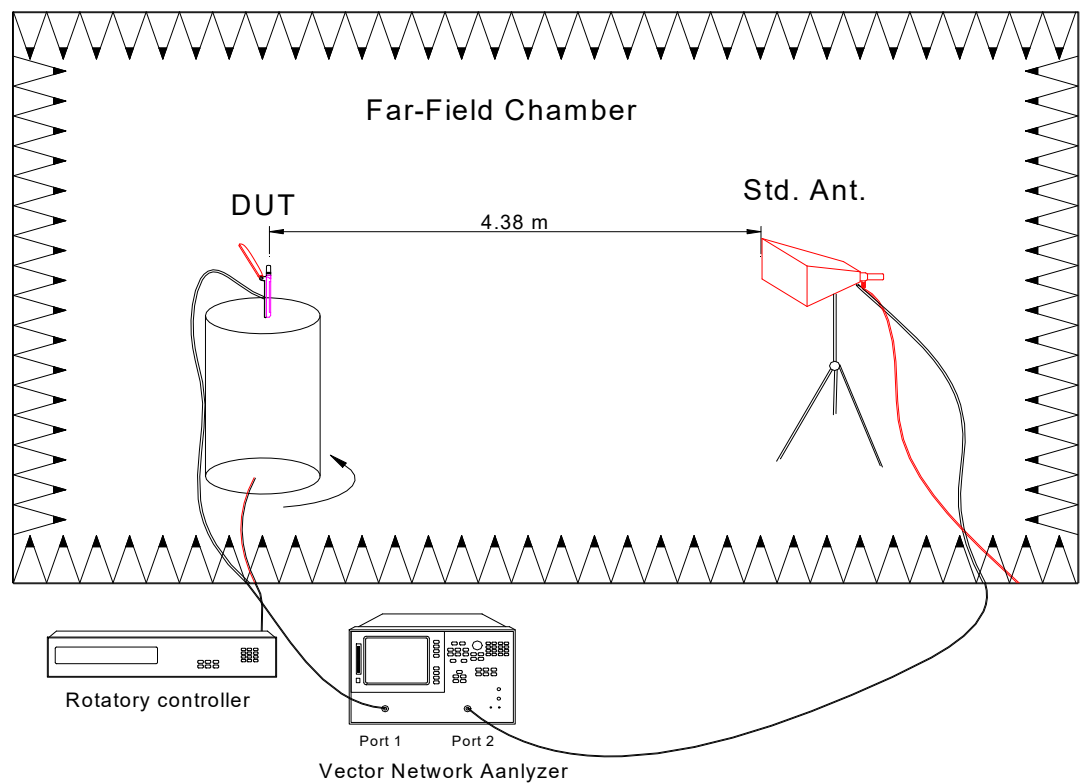
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2-4. Measure and Chamber

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)

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2-4-3 TRP/TIS

			SPEC	测试值	GAP
802.11 b	TRP	1	12.5	12.16	-0.34
		6	12.5	13.03	0.53
		13	12.5	14.16	1.66
	TIS	1			
		6			
		13		-80.16	
5GHz 802.11a TRP(6M)/TIS(54M)	TRP	36	8.5	8.55	
		64	8.5	9.24	
		165	8.5	8.2	
	TIS	36			
		64			
		165			
GPS	SPEC		测试值		GAP
TIS	-143		-142.55		-0.45

2-4-4 Antenna Efficiency

Frequency (MHz)	Peak Gain (dB)
5150	-3.27
5200	-3.03
5250	-3.59
5300	-3.11
5350	-3.98
5400	-3.79
5450	-3.50
5500	-3.52
5550	-3.96
5600	-3.81
5650	-3.88
5700	-3.94
5750	-3.87
5800	-3.80
5850	-4.51

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Frequency (MHz)	Peak Gain (dB)
1570	-2.71
1571	-2.72
1572	-2.73
1573	-2.75
1574	-2.77
1575	-2.77
1575.42	-2.77
1576	-2.77
1577	-2.78
1578	-2.77
1579	-2.76
1580	-2.74
2400	-3.26
2410	-2.05
2420	-2.15
2430	-2.13
2440	-2.00
2450	-2.50
2460	-2.00
2470	-2.00
2480	-2.00
2490	-2.01
2500	-2.01

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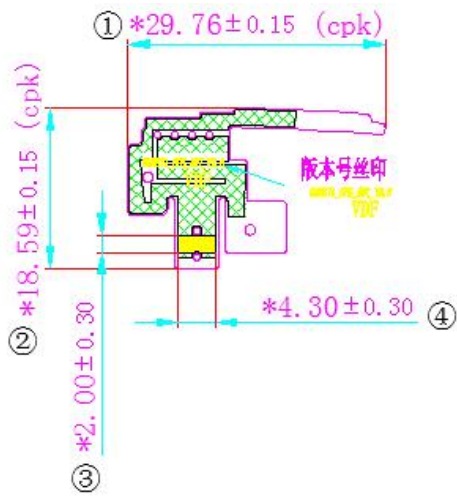
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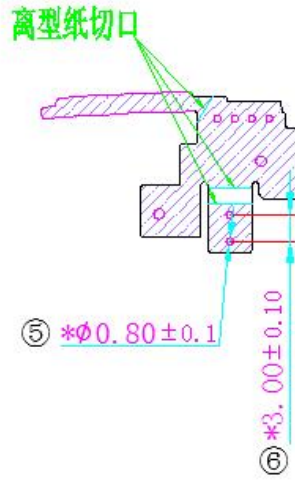
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3. Antenna Dimensions:



正面 (走线面)



反面（背胶面）

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