

品名 : **GH6751-4IN1ANT-V1.0**

History List

[illegible]

GH6751-4IN1ANT-V1.0

Specification

1. Explanation of part number :

GH6751 - 4IN1ANT - V1.0

(1) (2) (3)

(1) Model Name : GH6751

(2) Frequency : 1575Mhz, 2400-2500MHz, 5150-5850MHz

(3) Suffix :V1.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GPS&BT&WIFI	1575Mhz, 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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SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY : 肖坤雄

DESIGNED BY : 李胜华

APPROVED BY : 王伟

TITLE : GH6751-4IN1ANT-V1.0Specification

DOCUMENT NO.

PAGE	REV.
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A0

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

2-3.1 VSWR:

Frequency Band	1575	2400	2500	5150	5950
2-3-1. Typical Value:	≤ 2	≤ 2.5	≤ 2	≤ 3.0	≤ 3.0
2-3-2Measuring Method	1. A 50Ωcoaxial 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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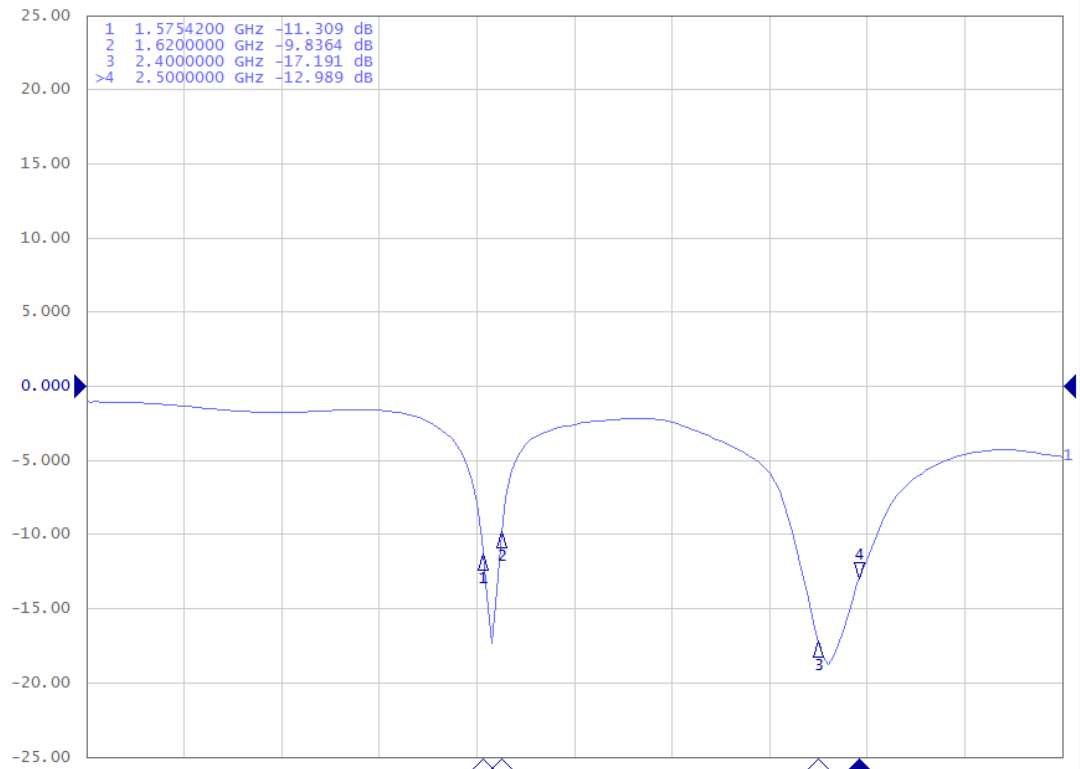
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DOCUMENT
NO.

PAGE REV.
A0

► S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M]



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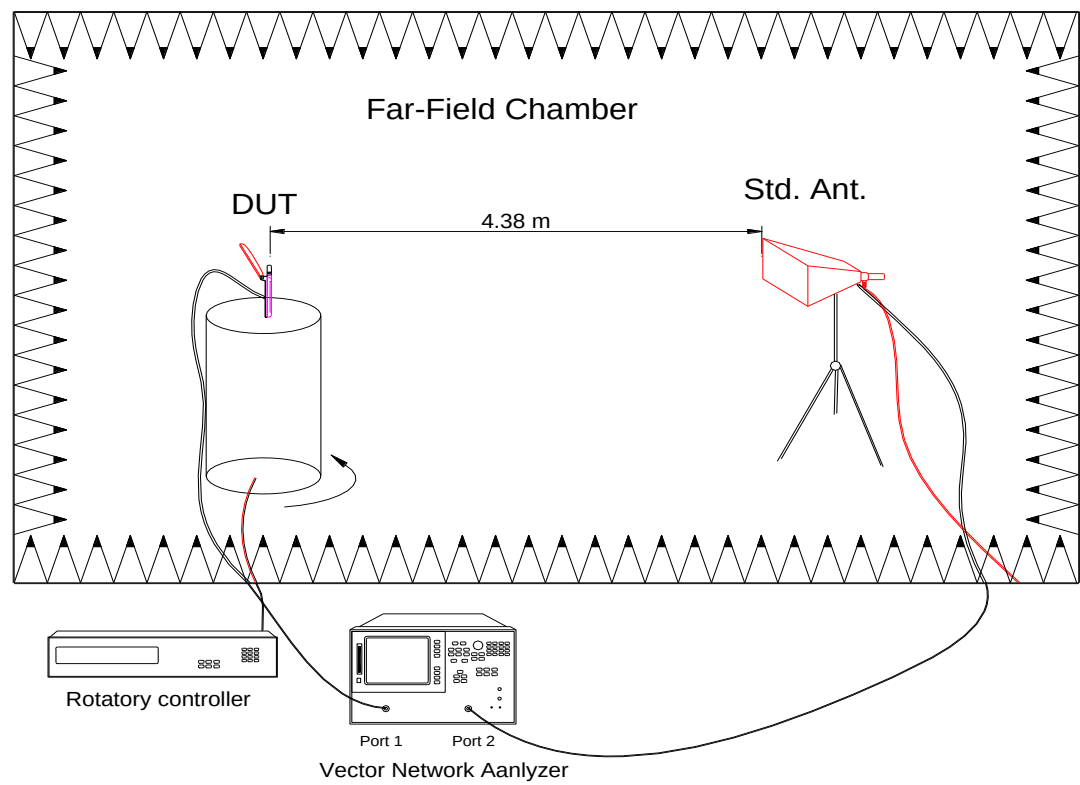
PAGE REV.
A0

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 Antenna Efficiency

GPS				2.4G WIFI				5G WIFI			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
1550	-0.58	-5.62	27%	2400	0.59	-5.81	26%	5150	0.55	-6.38	23%
1555	-0.28	-5.35	29%	2410	0.82	-5.78	26%	5200	1.19	-6.07	25%
1560	-0.33	-5.36	29%	2420	1.33	-5.55	28%	5250	1.60	-5.67	27%
1565	-0.24	-5.30	30%	2430	0.94	-5.65	27%	5300	2.72	-5.17	30%
1570	-0.40	-5.24	30%	2440	0.73	-5.78	26%	5350	2.59	-5.16	30%
1575	-0.17	-5.08	31%	2450	1.05	-5.59	28%	5400	2.10	-4.97	32%
1580	-0.23	-5.02	31%	2460	0.69	-5.52	28%	5450	2.93	-5.08	31%
1585	-0.36	-5.20	30%	2470	0.19	-5.69	27%	5500	1.70	-5.31	29%
1590	-0.26	-5.21	30%	2480	0.34	-5.69	27%	5550	1.44	-5.55	28%
1595	-0.57	-5.36	29%	2490	0.29	-5.76	27%	5600	1.65	-5.53	28%
1600	-0.86	-5.59	28%	2500	0.02	-6.08	25%	5650	2.37	-5.24	30%
1610	-1.14	-5.88	26%					5700	2.02	-5.77	26%
1620	-0.88	-5.82	26%					5750	3.09	-5.32	29%
								5800	3.48	-4.97	32%
								5850	0.97	-6.22	24%

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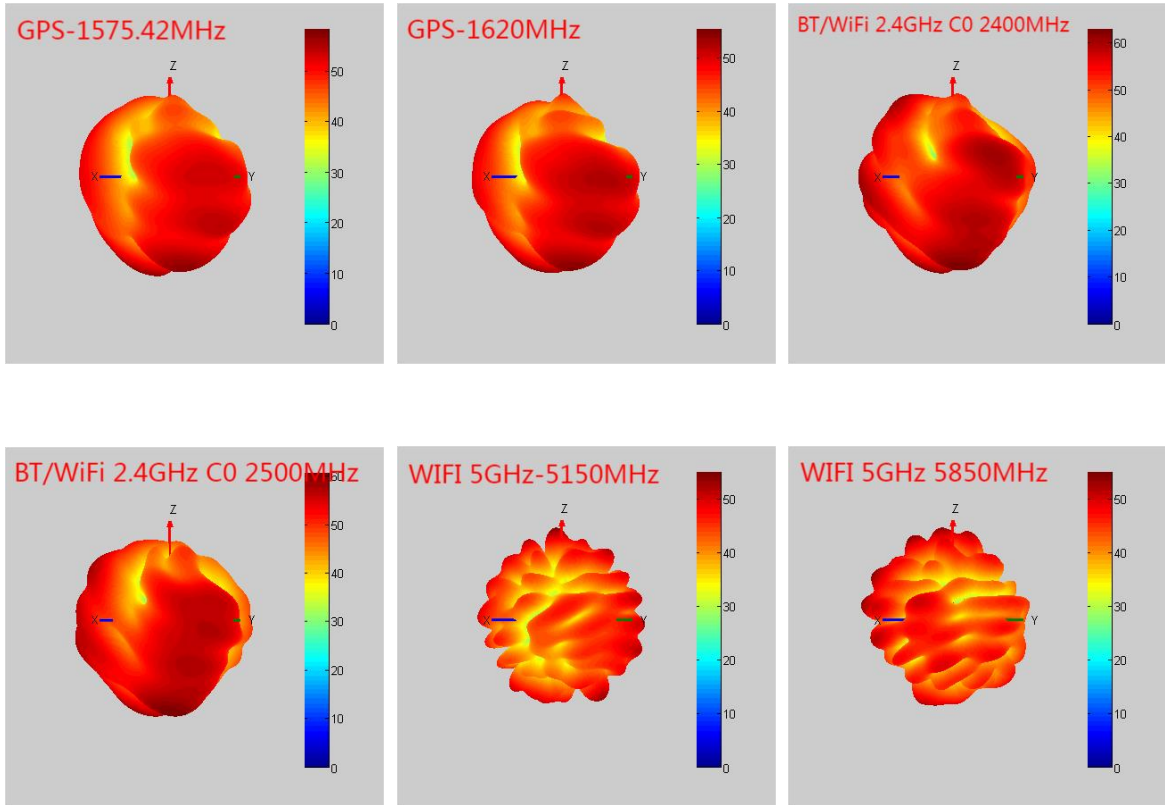
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PAGE REV.
A0

3. 3D Radiation Pattern



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4. Antenna Dimensions:

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