

[illegible]

Specification

1. Explanation of part number :

GH6321 **-** **DIV-ANT** **-** **V2.0**

(1) (2) (3)

(1) Model Name : GH6321

(2) Frequency : 699-960Mhz, 1710-2170MHz, 2300-2690MHz

(3) Suffix :V2.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
DIV	699-960Mhz, 1710-2170MHz, 2300-2400MHz, 2500-2690MHz

2-2. Impedance

50 ohm nominal

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES = $\pm$

HOLEDIA = $\pm$



深圳市可信华成通信科技有限公司

SHENZHEN CITY KEXIN HUACHENG COMMUNICATION TECHNOLOGY CO.,LTD

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

CHECKED BY : 肖坤雄

DESIGNED BY : 骆业辉

APPROVED BY: 王伟

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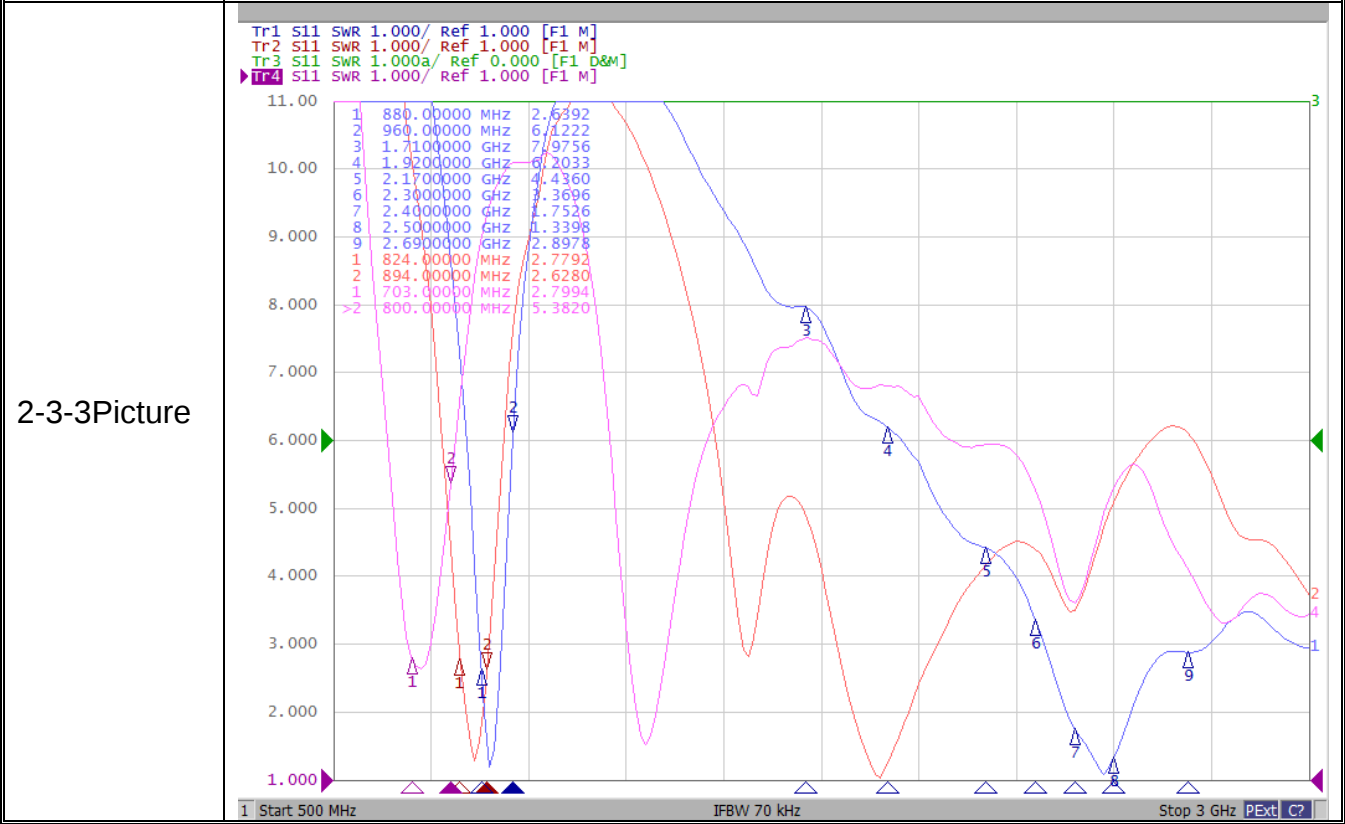
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2-3. VSWR ,Efficiency ,Matching and Active Data :

2-3.1 VSWR:

Frequency Band	880	960	1710	2170	2500	2690
2-3-1. Typical Value:	≤ 3	≤ 3	≤ 4	≤ 3.0	≤ 2	≤ 3

2-3-2Measuring 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.
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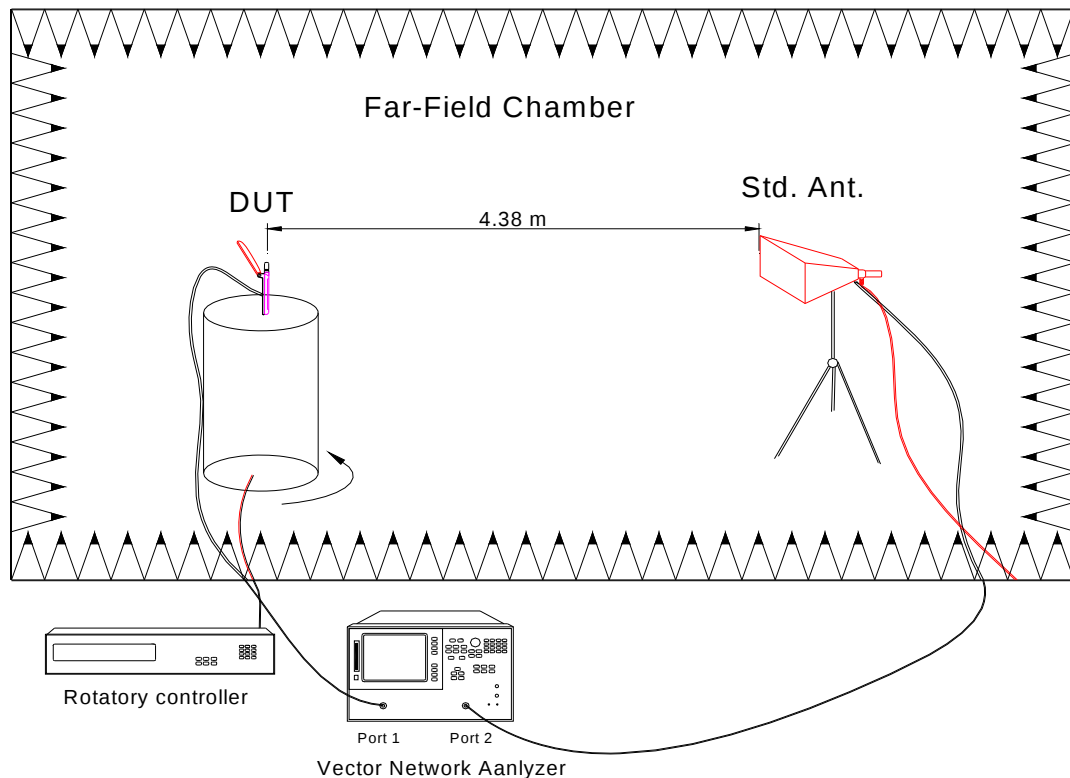
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2-4. Measure and Chamber

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 quiet 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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ANGLES=± HOLEDIA=±

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2-4-3 Antenna OTA

2-4-4 Antenna Efficiency

	RF1			RF2			RF3			RF4		
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
700	-13.82	-18.79	1%	-10.96	-15.13	3%	-2.76	-6.10	25%			
710	-13.51	-18.32	1%	-10.65	-14.55	4%	-2.30	-5.68	27%			
720	-13.07	-17.73	2%	-10.18	-13.87	4%	-1.82	-5.19	30%			
730	-12.47	-16.85	2%	-9.25	-12.85	5%	-1.58	-4.99	32%			
740	-11.68	-16.09	2%	-8.29	-11.95	6%	-1.39	-4.76	33%			
750	-11.03	-15.26	3%	-7.51	-11.02	8%	-1.36	-4.54	35%			
760	-10.71	-14.71	3%	-7.05	-10.38	9%	-1.79	-4.79	33%			
770	-10.47	-14.36	4%	-6.59	-9.91	10%	-2.46	-5.54	28%			
780	-10.26	-14.04	4%	-6.13	-9.42	11%	-2.77	-6.00	25%			
790	-9.97	-13.52	4%	-5.67	-8.81	13%	-3.07	-6.42	23%			
800	-9.59	-13.00	5%	-5.03	-8.17	15%	-3.46	-6.98	20%			
810	-8.89	-12.36	6%	-4.22	-7.31	19%	-3.98	-7.56	18%			
820	-8.06	-11.60	7%	-3.41	-6.52	22%	-4.08	-7.75	17%			
830	-7.38	-10.91	8%	-2.73	-5.87	26%	-4.24	-8.15	15%			
840	-6.37	-10.13	10%	-1.80	-5.20	30%	-4.47	-8.73	13%			
850	-5.41	-9.50	11%	-1.03	-4.73	34%	-4.63	-9.32	12%			
860	-4.23	-8.64	14%	-0.75	-4.47	36%	-4.80	-9.78	11%			
870	-2.89	-7.61	17%	-0.33	-4.41	36%	-5.28	-10.19	10%			
880	-1.72	-6.56	22%	-0.27	-4.58	35%	-6.04	-10.79	8%			
890	-0.64	-5.56	28%	-0.46	-5.01	32%	-6.19	-11.20	8%			
900	-0.01	-4.78	33%	-1.01	-5.72	27%	-6.51	-11.59	7%			
910	0.31	-4.33	33%	-1.79	-6.48	22%	-7.04	-11.99	6%			
920	-0.07	-4.70	34%	-2.64	-7.38	18%	-7.56	-12.44	6%			

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X=±2 X.X=±0.1 X.XX=±0.05			
ANGLES=±			

930	-1.02	-5.53	28%	-3.60	-8.23	15%	-8.11	-12.73	5%			
940	-2.11	-6.54	22%	-4.70	-9.04	12%	-8.78	-12.99	5%			
950	-3.43	-7.80	17%	-5.79	-9.95	10%	-9.27	-13.37	5%			
960	-4.79	-9.06	12%	-6.87	-10.84	8%	-9.70	-13.75	4%			
1710	-15.22	-23.09	0%	-5.10	-9.96	10%	-10.06	-15.15	3%			
1720	-15.01	-23.04	0%	-4.55	-9.68	11%	-10.16	-15.20	3%			
1730	-14.59	-22.66	1%	-3.92	-9.00	13%	-10.19	-14.98	3%			
1740	-14.79	-22.66	1%	-3.72	-8.60	14%	-10.36	-15.09	3%			
1750	-15.27	-22.54	1%	-3.47	-8.29	15%	-10.35	-15.04	3%			
1760	-15.35	-22.09	1%	-3.13	-7.77	17%	-10.29	-14.85	3%			
1770	-15.36	-21.80	1%	-2.78	-7.34	18%	-10.41	-14.92	3%			
1780	-14.97	-21.60	1%	-2.35	-7.09	20%	-10.37	-14.84	3%			
1790	-13.93	-21.30	1%	-2.15	-6.88	21%	-10.46	-14.72	3%			
1800	-12.88	-20.94	1%	-2.07	-6.57	22%	-10.53	-14.75	3%			
1810	-12.79	-20.89	1%	-1.99	-6.37	23%	-10.64	-14.98	3%			
1820	-12.88	-20.65	1%	-1.57	-6.24	24%	-10.59	-15.04	3%			
1830	-12.78	-20.16	1%	-1.61	-6.09	25%	-10.31	-14.95	3%			
1840	-12.66	-19.89	1%	-1.56	-5.87	26%	-9.97	-14.98	3%			
1850	-12.76	-19.81	1%	-1.19	-5.77	27%	-9.86	-15.10	3%			
1860	-12.05	-19.21	1%	-1.03	-5.68	27%	-9.55	-14.76	3%			
1870	-11.60	-18.77	1%	-0.77	-5.49	28%	-9.46	-14.61	3%			
1880	-11.98	-18.86	1%	-0.78	-5.57	28%	-9.57	-14.85	3%			
1890	-12.03	-18.65	1%	-0.79	-5.64	27%	-9.46	-14.73	3%			
1900	-11.02	-18.30	1%	-0.71	-5.69	27%	-9.38	-14.58	3%			
1910	-10.73	-18.35	1%	-0.82	-5.80	26%	-9.52	-14.69	3%			
1920	-10.48	-18.43	1%	-1.11	-5.87	26%	-9.71	-14.78	3%			
1930	-9.82	-18.08	2%	-1.37	-5.97	25%	-9.74	-14.66	3%			
1940	-9.57	-17.94	2%	-1.79	-6.26	24%	-10.08	-14.87	3%			
1950	-9.54	-17.74	2%	-1.67	-6.23	24%	-10.10	-14.84	3%			
1960	-9.53	-17.37	2%	-1.59	-6.23	24%	-9.92	-14.68	3%			
1970	-9.96	-17.16	2%	-1.95	-6.57	22%	-9.94	-14.82	3%			
1980	-10.35	-16.90	2%	-1.93	-6.66	22%	-9.90	-14.84	3%			
1990	-10.75	-16.60	2%	-1.82	-6.76	21%	-9.72	-14.79	3%			
2000	-10.68	-16.33	2%	-2.06	-7.06	20%	-9.66	-14.80	3%			
2010	-9.84	-15.92	3%	-2.31	-7.21	19%	-9.64	-14.75	3%			
2020	-9.35	-15.61	3%	-2.32	-7.32	19%	-9.56	-14.70	3%			
2030	-9.25	-15.49	3%	-2.61	-7.53	18%	-9.60	-14.72	3%			
2040	-8.75	-15.10	3%	-2.76	-7.69	17%	-9.64	-14.67	3%			
2050	-8.91	-15.08	3%	-2.77	-7.95	16%	-9.74	-14.89	3%			
2060	-9.30	-14.95	3%	-2.75	-8.05	16%	-9.65	-14.87	3%			
2070	-8.74	-14.48	4%	-2.70	-8.01	16%	-9.58	-14.65	3%			
2080	-8.42	-14.32	4%	-2.94	-8.26	15%	-9.69	-14.86	3%			

UNLESS OTHER SPECIFIED TOLERANCES ON :

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ANGLES=±

HOLEDIA=±

SCALE :

UNIT : mm

DRAWN BY : 黄土勇

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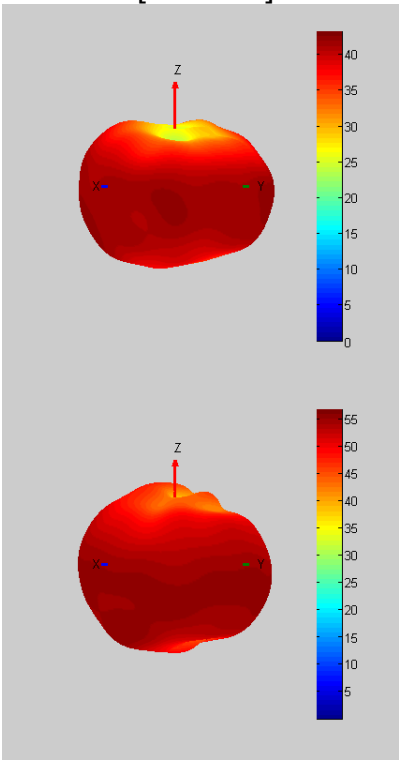
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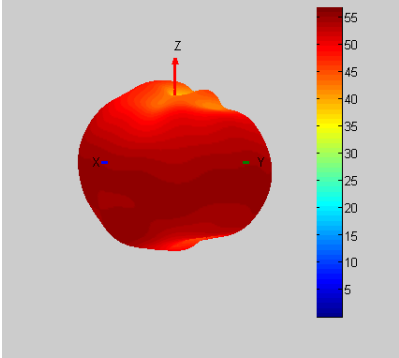
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3. Antenna 3D Radiation Pattern

4. -LTE B28[700MHz]



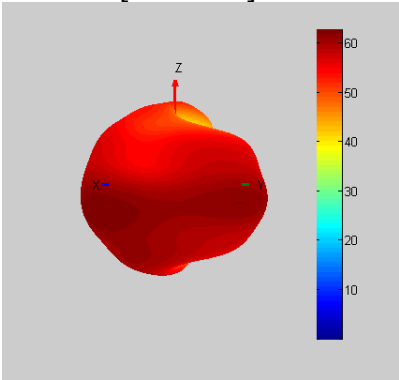
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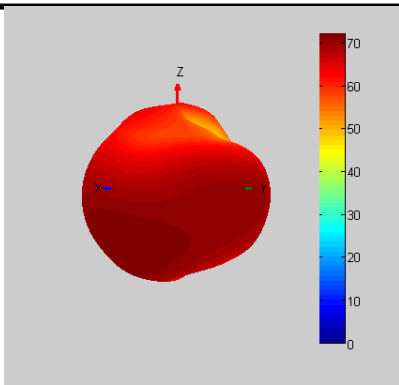
7. -LTE B28[800MHz]

8. -LTE B8[880MHz]



9.

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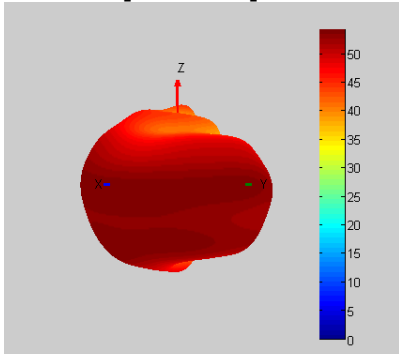
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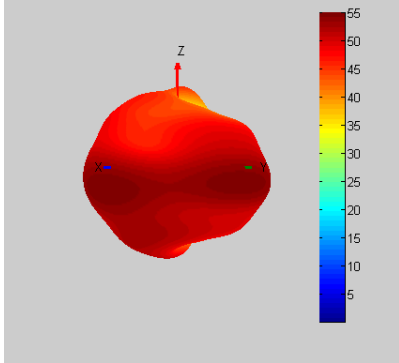
-LTE B8[960MHz]

12.

-LTE B5[820MHz]



13.



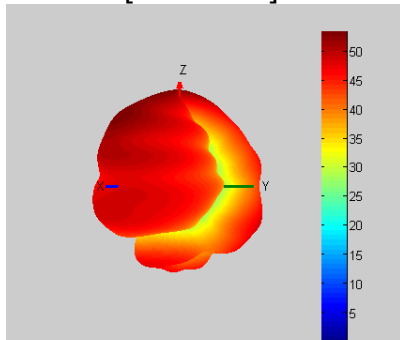
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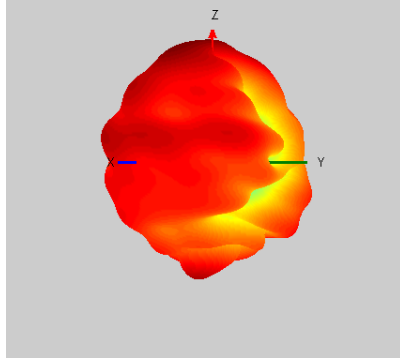
-LTE B5[890MHz]

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X=±2 X.X=±0.1 X.XX=±0.05 ANGLES=±			

16. -LTE B1[1920MHz]



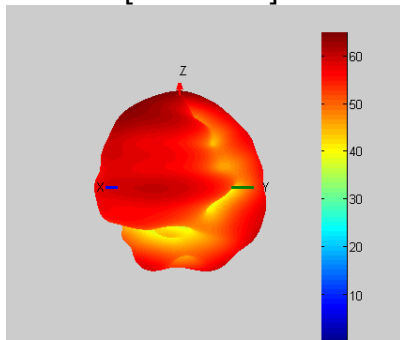
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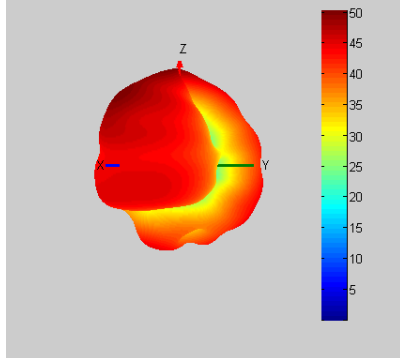
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19. -LTE B1[2170MHz]

20. -LTE B3[1710MHz]



21.

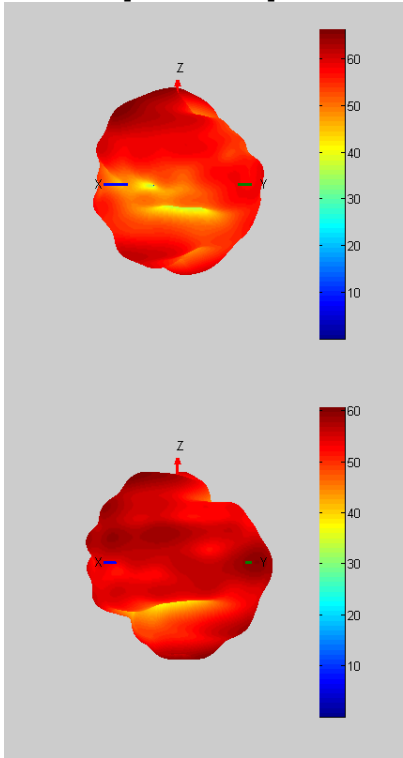


22.

23. -LTE B3[1880MHz]

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24. -LTE B7[2500MHz]



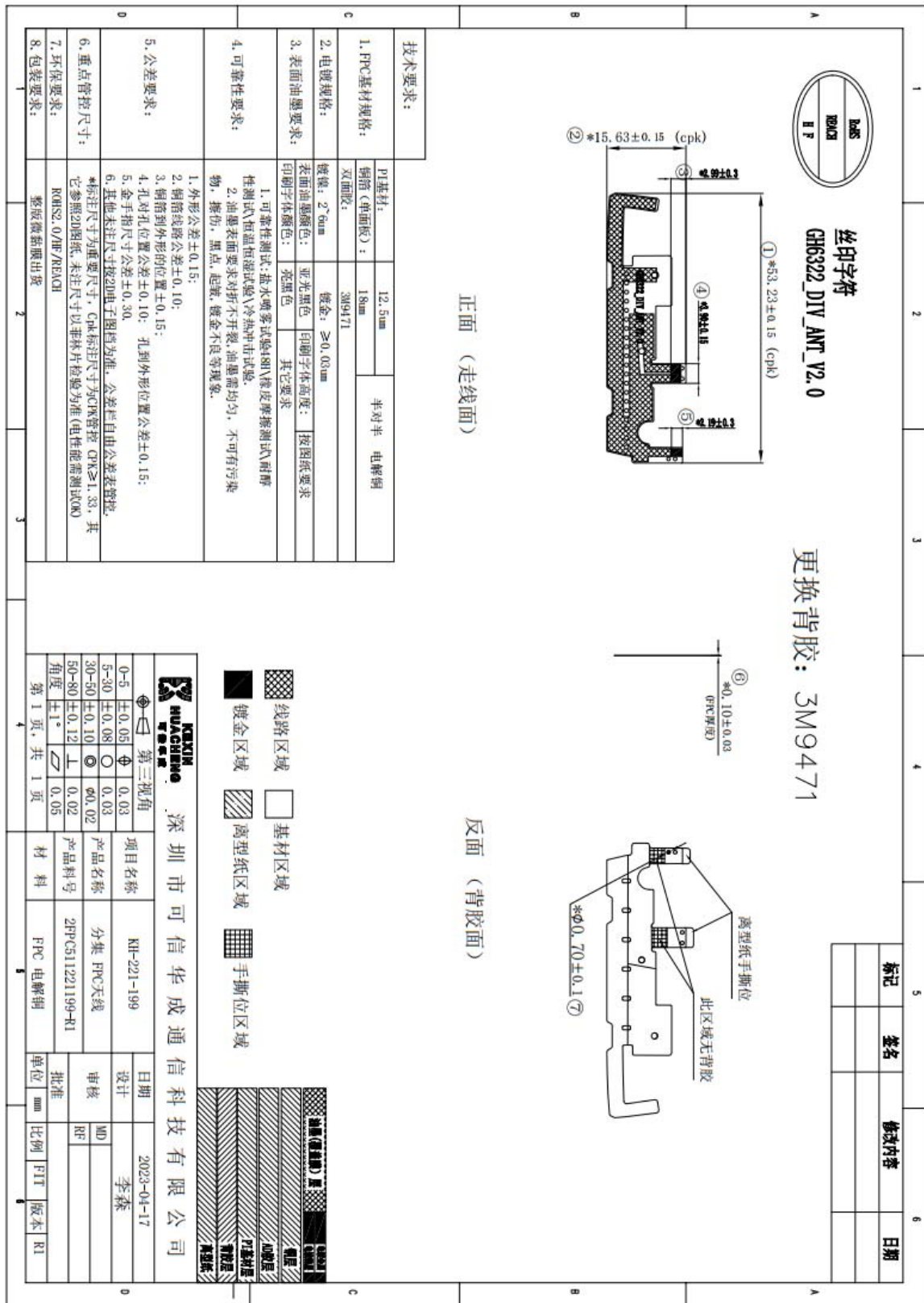
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27. -LTE B7[2690MHz]

28. Antenna Dimensions:

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29.

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=±2 X.X=±0.1 X.XX=±0.05

ANGLES=±

HOLEDIA=±

SCALE :

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