

品名：**GH6751-GSM-ANT-V1.0**

History List

[illegible]

GH6751-GSM-ANT-V1.0

Specification

1. Explanation of part number :

GH6751 – **GSM-ANT** – **V1.0**
(1) (2) (3)

(1) Model Name : GH6751

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

(3) Suffix :V1.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
GSM	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 = ±



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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-GSM-ANT-V1.0Specification

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

2-3.1 VSWR:

Frequency Band	880	960	1710	2170	2300	2690
2-3-1. Typical Value:	≤ 2.5	≤ 6	≤ 3	≤ 3.0	≤ 2.5	≤ 3
2-3-2 Measuring 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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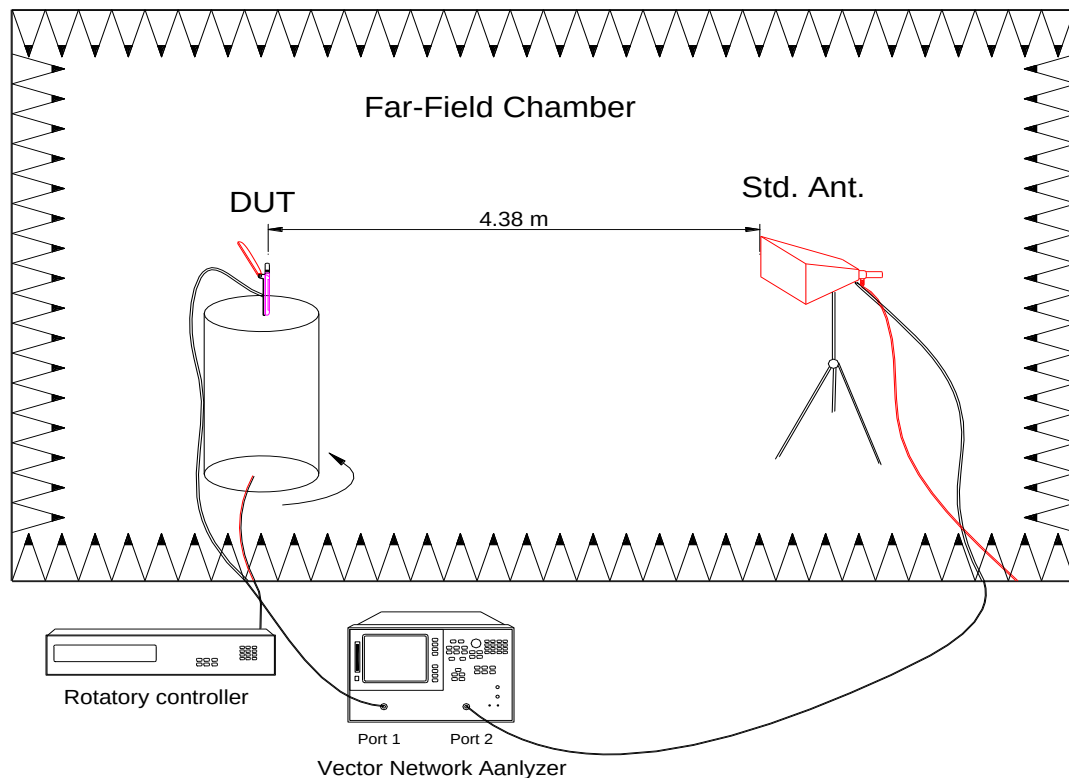
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2-4. Measure and Chamber

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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2-4-3 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	-7.74	-13.25	5%	-12.71	-18.61	1%	-7.71	-13.25	5%	-12.07	-18.42	1%
710	-6.98	-12.37	6%	-11.83	-17.99	2%	-6.95	-12.35	6%	-11.45	-17.94	2%
720	-6.04	-11.20	8%	-11.18	-17.08	2%	-5.99	-11.19	8%	-10.68	-17.17	2%
730	-4.82	-10.40	9%	-11.01	-16.73	2%	-4.80	-10.40	9%	-10.76	-16.95	2%
740	-3.89	-9.54	11%	-10.50	-16.11	2%	-3.91	-9.54	11%	-10.61	-16.33	2%
750	-3.82	-8.96	13%	-9.90	-15.35	3%	-3.85	-8.97	13%	-10.50	-15.54	3%
760	-4.18	-9.46	11%	-9.69	-14.94	3%	-4.17	-9.48	11%	-9.89	-14.99	3%
770	-4.33	-10.52	9%	-9.35	-14.80	3%	-4.32	-10.53	9%	-9.43	-14.65	3%
780	-4.66	-11.19	8%	-8.87	-14.39	4%	-4.66	-11.20	8%	-8.85	-14.14	4%
790	-4.80	-11.59	7%	-8.53	-14.28	4%	-4.81	-11.58	7%	-8.63	-13.96	4%
800	-4.99	-11.80	7%	-8.47	-14.17	4%	-4.98	-11.79	7%	-8.58	-13.84	4%
810	-5.26	-11.85	7%	-8.30	-13.96	4%	-5.25	-11.84	7%	-8.83	-13.67	4%
820	-5.77	-11.93	6%	-7.94	-13.47	4%	-5.74	-11.91	6%	-8.16	-13.20	5%
830	-6.54	-12.01	6%	-7.46	-12.92	5%	-6.45	-11.97	6%	-7.51	-12.68	5%
840	-7.24	-12.05	6%	-6.85	-12.27	6%	-7.19	-12.03	6%	-6.83	-12.10	6%
850	-7.66	-12.37	6%	-6.32	-11.50	7%	-7.67	-12.35	6%	-6.25	-11.37	7%
860	-7.55	-12.48	6%	-6.20	-10.77	8%	-7.53	-12.46	6%	-6.11	-10.72	8%
870	-7.19	-12.59	6%	-5.67	-10.17	10%	-7.18	-12.56	6%	-5.86	-10.22	10%
880	-6.94	-12.60	5%	-5.13	-9.72	11%	-6.92	-12.58	6%	-5.50	-9.83	10%
890	-6.72	-12.69	5%	-4.75	-9.34	12%	-6.68	-12.67	5%	-5.19	-9.56	11%
900	-6.70	-12.80	5%	-4.58	-9.22	12%	-6.66	-12.78	5%	-5.05	-9.50	11%
910	-6.28	-12.47	6%	-4.35	-9.08	12%	-6.25	-12.45	6%	-4.91	-9.33	12%
920	-5.91	-12.23	6%	-4.22	-9.07	12%	-5.89	-12.23	6%	-4.21	-9.25	12%
930	-5.83	-12.34	6%	-4.19	-9.18	12%	-5.78	-12.34	6%	-3.90	-9.31	12%
940	-5.13	-12.04	6%	-3.88	-9.00	13%	-5.10	-12.03	6%	-3.46	-9.11	12%
950	-4.37	-11.84	7%	-3.92	-8.98	13%	-4.36	-11.82	7%	-3.12	-9.13	12%
960	-4.33	-12.02	6%	-4.18	-9.32	12%	-4.33	-11.99	6%	-3.18	-9.47	11%
1710	-0.09	-6.09	25%	1.20	-5.24	30%	0.05	-6.09	25%	2.02	-4.75	34%
1720	-0.01	-6.15	24%	1.33	-5.31	29%	-0.04	-6.09	25%	2.00	-4.86	33%
1730	-0.10	-6.14	24%	1.32	-5.27	30%	0.05	-6.00	25%	2.04	-4.87	33%
1740	-0.02	-6.06	25%	1.34	-5.17	30%	0.57	-5.80	26%	1.93	-4.85	33%
1750	0.47	-5.86	26%	1.35	-5.03	31%	0.77	-5.67	27%	1.74	-4.76	33%

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1760	0.68	-5.74	27%	1.52	-4.90	32%	1.20	-5.62	27%	1.66	-4.68	34%
1770	1.18	-5.68	27%	1.61	-4.83	33%	1.59	-5.50	28%	1.43	-4.65	34%
1780	1.62	-5.56	28%	1.89	-4.72	34%	1.43	-5.44	29%	1.48	-4.53	35%
1790	1.45	-5.48	28%	2.15	-4.72	34%	1.22	-5.48	28%	1.68	-4.56	35%
1800	1.16	-5.54	28%	2.15	-4.83	33%	1.76	-5.17	30%	1.58	-4.71	34%
1810	1.67	-5.23	30%	2.51	-4.57	35%	1.69	-5.12	31%	1.84	-4.46	36%
1820	1.62	-5.17	30%	2.59	-4.61	35%	1.55	-5.18	30%	1.90	-4.53	35%
1830	1.50	-5.23	30%	2.38	-4.80	33%	1.96	-4.95	32%	1.69	-4.74	34%
1840	1.93	-4.99	32%	2.44	-4.69	34%	1.92	-4.81	33%	1.83	-4.65	34%
1850	1.88	-4.86	33%	2.61	-4.64	34%	1.25	-4.96	32%	2.05	-4.64	34%
1860	1.20	-5.02	32%	2.47	-4.90	32%	1.68	-4.53	35%	1.90	-4.92	32%
1870	1.65	-4.59	35%	2.74	-4.61	35%	1.96	-4.34	37%	2.08	-4.71	34%
1880	1.96	-4.39	36%	2.93	-4.49	36%	1.70	-4.42	36%	2.17	-4.62	34%
1890	1.73	-4.48	36%	2.96	-4.67	34%	1.69	-4.35	37%	1.99	-4.77	33%
1900	1.69	-4.40	36%	2.80	-4.77	33%	1.38	-4.41	36%	1.71	-4.86	33%
1910	1.30	-4.47	36%	2.49	-4.93	32%	1.74	-4.42	36%	1.45	-5.03	31%
1920	1.68	-4.49	36%	2.39	-5.02	32%	2.05	-4.35	37%	1.61	-5.07	31%
1930	2.00	-4.42	36%	2.40	-5.05	31%	1.97	-4.46	36%	1.70	-5.06	31%
1940	1.91	-4.52	35%	2.25	-5.29	30%	1.92	-4.41	36%	1.31	-5.25	30%
1950	1.86	-4.46	36%	2.29	-5.31	29%	1.95	-4.36	37%	1.02	-5.23	30%
1960	1.89	-4.42	36%	2.29	-5.37	29%	1.87	-4.50	35%	0.95	-5.27	30%
1970	1.81	-4.57	35%	2.12	-5.68	27%	1.77	-4.50	35%	0.72	-5.53	28%
1980	1.74	-4.57	35%	2.00	-5.86	26%	1.66	-4.54	35%	0.46	-5.72	27%
1990	1.63	-4.61	35%	1.66	-6.01	25%	1.28	-4.78	33%	0.59	-5.88	26%
2000	1.28	-4.84	33%	1.02	-6.35	23%	0.73	-4.98	32%	0.51	-6.18	24%
2010	0.71	-5.04	31%	0.10	-6.65	22%	0.03	-5.21	30%	0.40	-6.43	23%
2020	0.01	-5.25	30%	-0.84	-6.91	20%	0.08	-5.43	29%	-0.01	-6.66	22%
2030	0.02	-5.48	28%	-1.36	-7.13	19%	0.15	-5.63	27%	-0.41	-6.80	21%
2040	0.09	-5.70	27%	-1.36	-7.30	19%	-0.21	-5.87	26%	-0.66	-6.92	20%
2050	-0.27	-5.94	25%	-1.36	-7.47	18%	-0.41	-6.06	25%	-0.92	-7.05	20%
2060	-0.45	-6.12	24%	-1.32	-7.53	18%	-0.43	-6.25	24%	-1.26	-7.08	20%
2070	-0.47	-6.31	23%	-1.24	-7.57	18%	-0.07	-6.26	24%	-1.54	-7.10	20%
2080	-0.13	-6.32	23%	-1.25	-7.45	18%	0.31	-6.18	24%	-1.64	-6.95	20%
2090	0.28	-6.23	24%	-1.07	-7.25	19%	-0.03	-6.36	23%	-1.61	-6.74	21%
2100	-0.06	-6.42	23%	-1.12	-7.33	19%	-0.06	-6.44	23%	-1.84	-6.83	21%
2110	-0.13	-6.51	22%	-1.15	-7.33	18%	0.03	-6.24	24%	-1.71	-6.83	21%
2120	-0.07	-6.31	23%	-0.87	-7.07	20%	-0.57	-6.51	22%	-1.29	-6.58	22%
2130	-0.57	-6.58	22%	-1.11	-7.20	19%	-0.42	-6.50	22%	-1.47	-6.72	21%
2140	-0.45	-6.57	22%	-1.10	-7.08	20%	0.37	-6.00	25%	-1.51	-6.59	22%
2150	0.31	-6.07	25%	-0.61	-6.50	22%	0.37	-5.89	26%	-1.10	-6.04	25%
2160	0.32	-5.96	25%	-0.43	-6.27	24%	0.38	-5.97	25%	-1.02	-5.84	26%
2170	0.34	-6.03	25%	-0.47	-6.24	24%	0.76	-5.53	28%	-0.91	-5.82	26%

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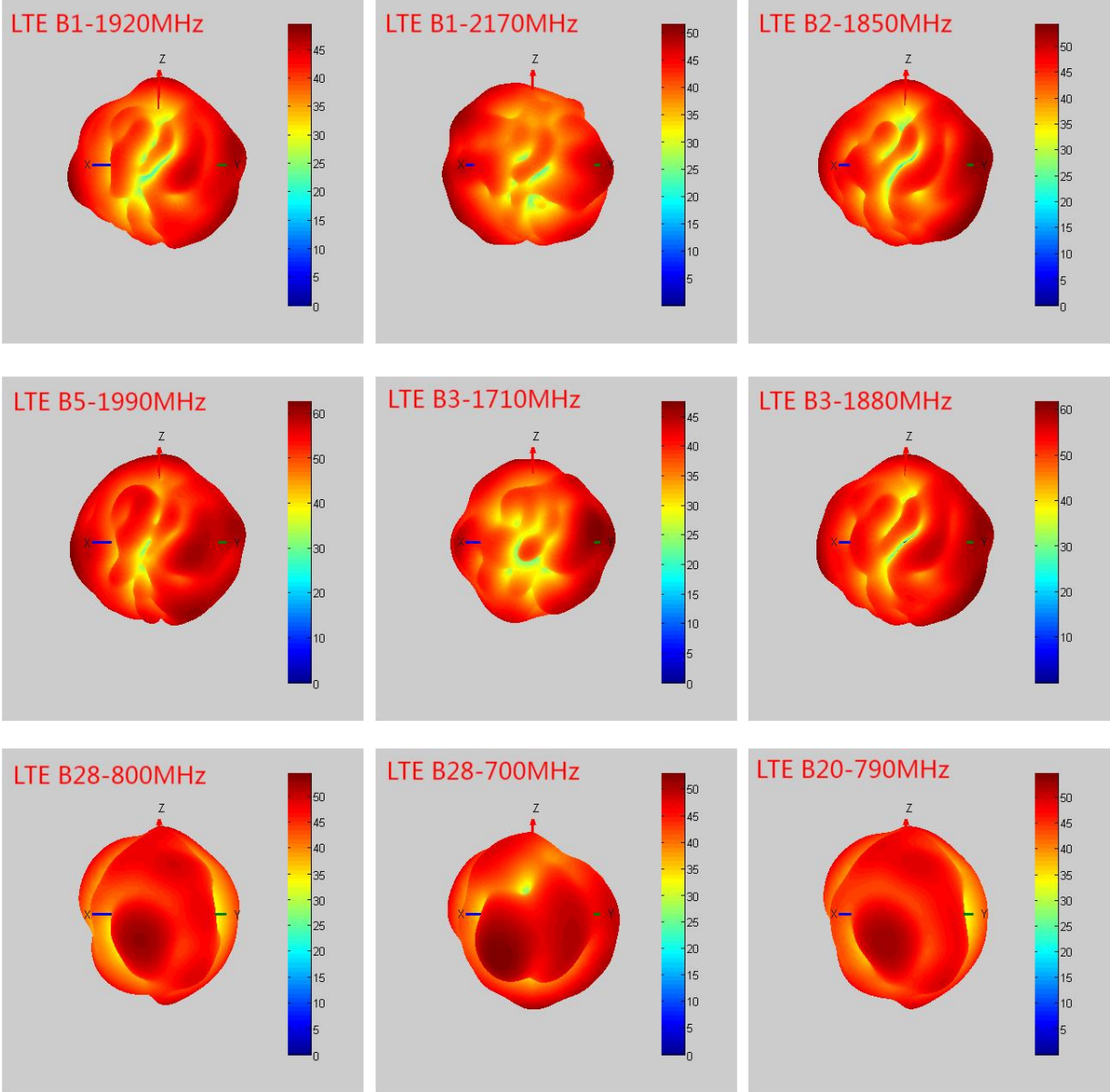
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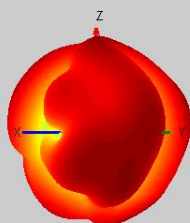
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3. Antenna 3D Radiation Pattern

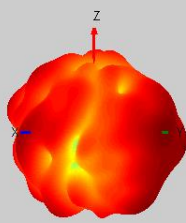


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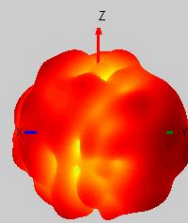
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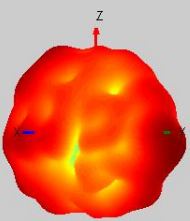
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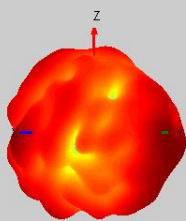
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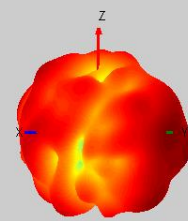
LTE B40-2300MHz



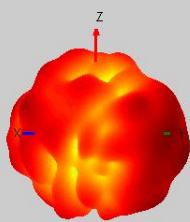
LTE B10-2400MHz



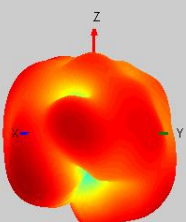
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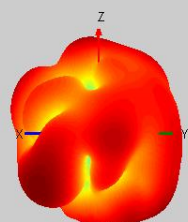
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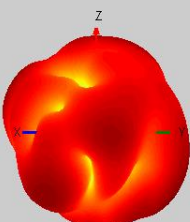
LTE B5-820MHz



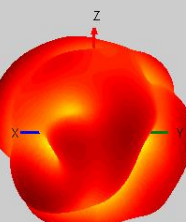
LTE B5-890MHz



LTE B8-880MHz



LTE B8-960MHz



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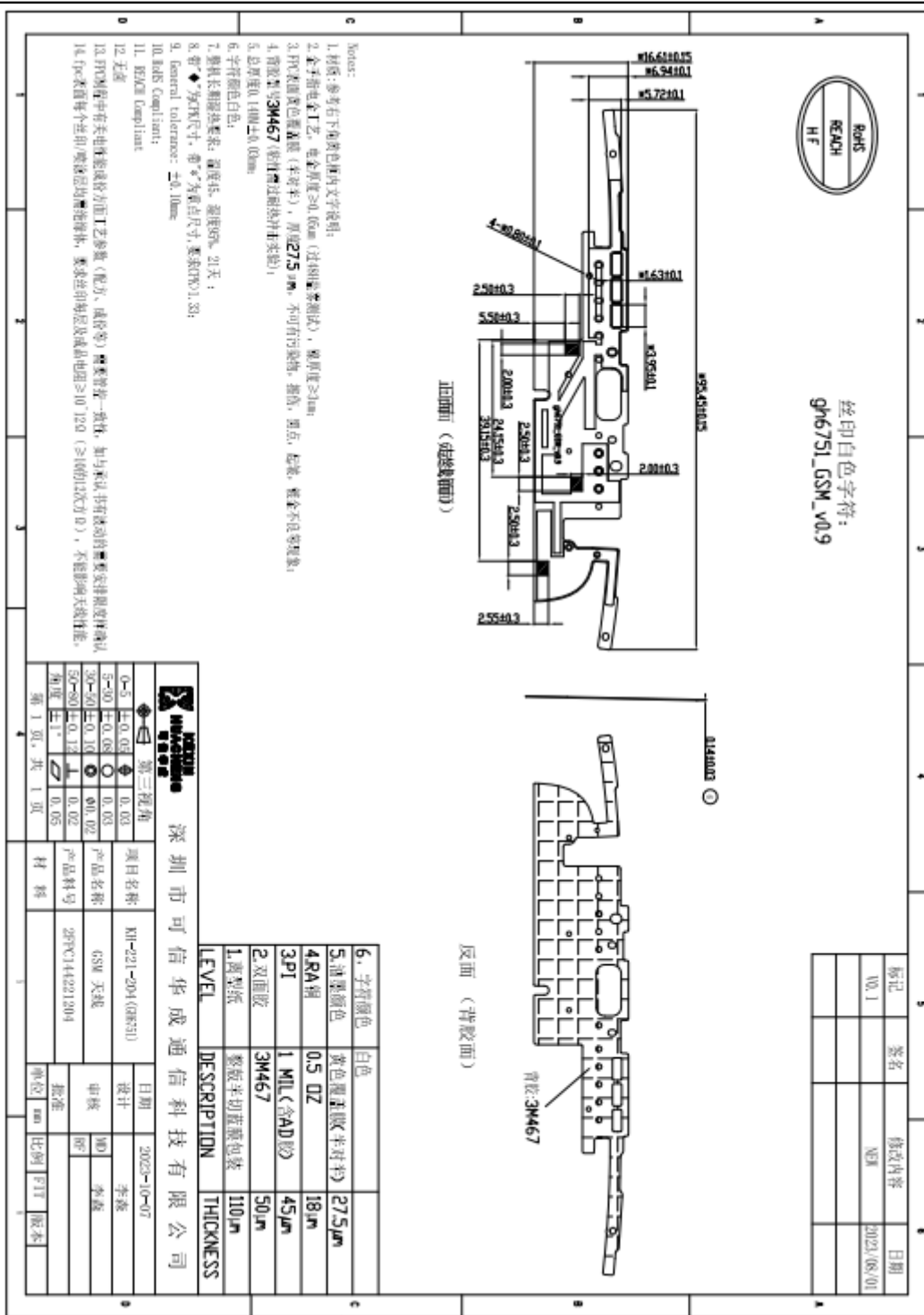
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DESIGNED BY : 李胜华

APPROVED BY : 王伟

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