

品名：**GH6321-LTE-ANT-V2.0**

History List

[illegible]

GH6321-LTE-ANT-V2.0 **Specification**

1. Explanation of part number :

GH6321M – **LTE-ANT** – **V2.0**
(1) **(2)** **(3)**

(1) Model Name : GH6321M

(2) Frequency : 600-960Mhz, 1710-2170MHz, 2300-2690MHz

(3) Suffix :V2.0

2. Electrical Specification :

2-1. Frequency Band:

Frequency Band	MHz
LTE	600-960Mhz, 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 : 李森

CHECKED BY : 肖坤雄

DESIGNED BY : 覃佐治

APPROVED BY : 王伟

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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	≤3.5	≤2	≤2.0	≤2	≤3																																																								
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	Tr1 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M] Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M] Tr3 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M] ▶ Tr4 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M] <table><thead><tr><th></th><th></th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>1.7100000 GHz</td><td>-9.4053 dB</td><td></td></tr><tr><td>2</td><td>1.9900000 GHz</td><td>-7.6310 dB</td><td></td></tr><tr><td>3</td><td>2.1700000 GHz</td><td>-14.605 dB</td><td></td></tr><tr><td>4</td><td>2.3000000 GHz</td><td>-13.347 dB</td><td></td></tr><tr><td>5</td><td>2.4000000 GHz</td><td>-12.606 dB</td><td></td></tr><tr><td>6</td><td>2.5000000 GHz</td><td>-15.392 dB</td><td></td></tr><tr><td>7</td><td>2.6900000 GHz</td><td>-12.975 dB</td><td></td></tr><tr><td>1</td><td>617.00000 MHz</td><td>-10.084 dB</td><td></td></tr><tr><td>2</td><td>651.00000 MHz</td><td>-10.344 dB</td><td></td></tr><tr><td>1</td><td>758.00000 MHz</td><td>-11.176 dB</td><td></td></tr><tr><td>2</td><td>803.00000 MHz</td><td>-6.8131 dB</td><td></td></tr><tr><td>1</td><td>869.00000 MHz</td><td>-7.7247 dB</td><td></td></tr><tr><td>2</td><td>894.00000 MHz</td><td>-9.4596 dB</td><td></td></tr></tbody></table>										1	1.7100000 GHz	-9.4053 dB		2	1.9900000 GHz	-7.6310 dB		3	2.1700000 GHz	-14.605 dB		4	2.3000000 GHz	-13.347 dB		5	2.4000000 GHz	-12.606 dB		6	2.5000000 GHz	-15.392 dB		7	2.6900000 GHz	-12.975 dB		1	617.00000 MHz	-10.084 dB		2	651.00000 MHz	-10.344 dB		1	758.00000 MHz	-11.176 dB		2	803.00000 MHz	-6.8131 dB		1	869.00000 MHz	-7.7247 dB		2	894.00000 MHz	-9.4596 dB	
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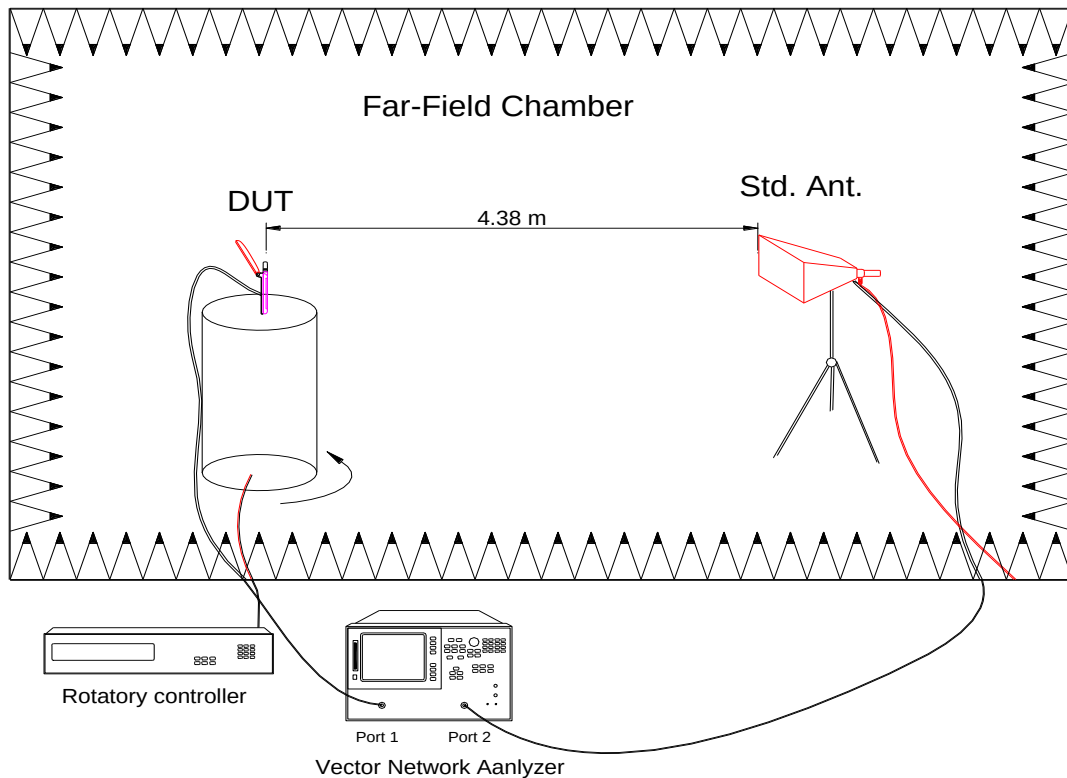
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2-4. Measure and Chamber

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

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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)

2-4-3 Antenna OTA

2-4-4 Antenna Efficiency

Frequency (MHz)	RF1			RF2			RF3			RF4		
	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
600				-8.00	-11.53	7%						
610				-6.68	-10.24	9%						
620				-5.71	-9.30	12%						
630				-4.52	-8.42	14%						
640				-3.18	-7.58	17%						
650				-3.15	-7.27	19%						
660				-3.32	-7.19	19%						
670				-3.66	-7.62	17%						
680				-5.28	-8.83	13%						
690				-6.55	-10.11	10%						
700				-8.15	-11.36	7%				-10.66	-13.20	5%
710										-9.37	-12.12	6%
720										-7.65	-10.89	8%
730										-5.97	-9.85	10%
740										-4.75	-8.94	13%
750										-3.80	-8.31	15%
760										-3.83	-8.36	15%
770										-4.02	-8.93	13%
780										-4.10	-9.37	12%
790										-4.43	-9.52	11%
800							-8.72	-13.22	5%	-5.15	-9.63	11%

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810							-7.92	-12.84	5%			
820							-7.10	-12.38	6%			
830							-6.48	-11.73	7%			
840							-5.87	-10.61	9%			
850							-4.89	-9.35	12%			
860							-4.22	-8.80	13%			
870							-4.03	-8.57	14%			
880							-3.75	-8.30	15%			
890							-3.31	-8.18	15%			
900							-3.32	-8.30	15%			
1710	-0.63	-5.49	28%									
1720	-0.14	-5.22	30%									
1730	0.28	-4.83	33%									
1740	0.13	-4.64	34%									
1750	-0.19	-4.5	36%									
1760	-0.1	-4.27	37%									
1770	0.12	-4.05	39%									
1780	0.23	-4.03	40%									
1790	1.06	-4.07	39%									
1800	1.38	-3.86	41%									
1810	1.34	-3.93	40%									
1820	1.2	-4.2	38%									
1830	1.1	-4.27	37%									
1840	1.11	-4.25	38%									
1850	1.15	-4.39	36%									
1860	1.03	-4.28	37%									
1870	1.1	-4.13	39%									
1880	1.09	-4.26	37%									
1890	1.08	-4.36	37%									
1900	1.11	-4.5	35%									
1910	1.05	-4.6	35%									
1920	1.07	-4.5	35%									
1930	0.97	-4.62	35%									
1940	0.84	-4.69	34%									
1950	0.68	-4.51	35%									
1960	0.56	-4.49	36%									
1970	1.14	-4.59	35%									
1980	0.96	-4.54	35%									
1990	0.59	-4.66	34%									
2000	0.52	-4.82	33%									
2010	0.89	-4.82	33%									
2020	0.95	-4.93	32%									

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2030	1.02	-5.12	31%									
2040	0.96	-5.22	30%									
2050	0.83	-5.57	28%									
2060	0.09	-5.92	26%									
2070	-0.23	-6.07	25%									
2080	-0.8	-6.3	23%									
2090	-1.41	-6.74	21%									
2100	-1.75	-7.01	20%									
2110	-1.73	-7	20%									
2120	-1.79	-7.16	19%									
2130	-1.85	-7.18	19%									
2140	-1.47	-6.79	21%									
2150	-1.29	-6.58	22%									
2160	-1.33	-6.63	22%									
2170	-0.73	-6.29	23%									
2300	-0.73	-5.53	28%									
2310	-1.26	-5.75	27%									
2320	-0.91	-5.5	28%									
2330	-0.71	-5.42	29%									
2340	-0.86	-5.55	28%									
2350	-0.37	-5.36	29%									
2360	-0.41	-5.21	30%									
2370	-0.79	-5.16	30%									
2380	-0.51	-5.07	31%									
2390	0.05	-4.83	33%									
2400	0.15	-4.77	33%									
2500	0.07	-4.97	32%									
2510	0.43	-4.93	32%									
2520	0.04	-5.03	31%									
2530	-0.45	-5.24	30%									
2540	-0.04	-5.2	30%									
2550	0	-5.2	30%									
2560	-0.18	-5.35	29%									
2570	0.29	-5.28	30%									
2580	0.46	-5.26	30%									
2590	0.38	-5.37	29%									
2600	0.89	-5.18	30%									
2610	1.31	-5.05	31%									
2620	1.43	-5.1	31%									
2630	1.73	-4.97	32%									
2640	1.78	-4.97	32%									

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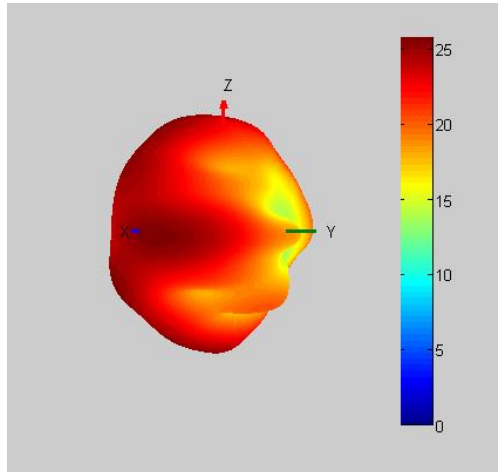
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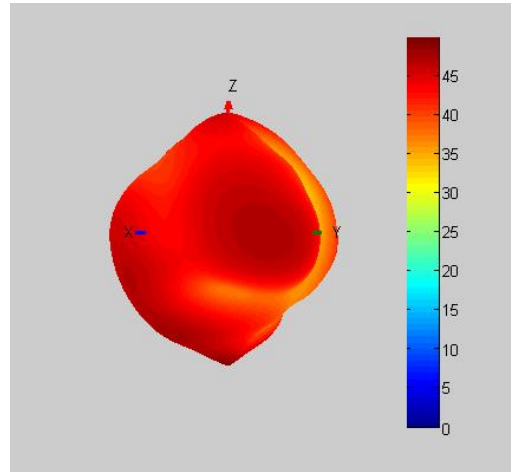
2650	1.42	-5.21	30%									
2660	1.22	-5.22	30%									
2670	0.72	-5.28	30%									
2680	0.11	-5.41	29%									
2690	0.03	-5.43	29%									

3. 3D Radiation Pattern

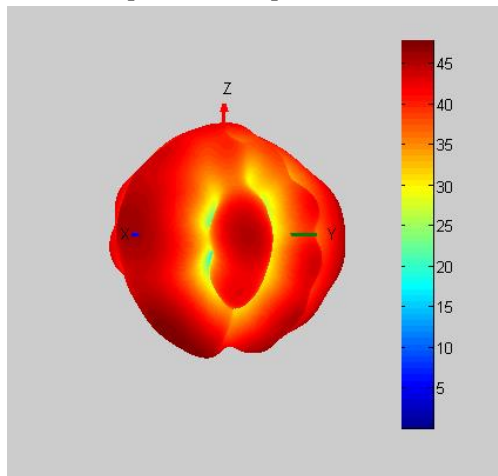
LTEB5[824MHz]



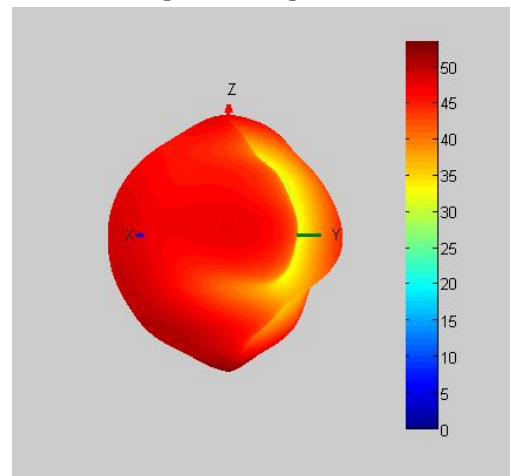
LTEB12[699MHz]



LTEB41[2500MHz]



LTEB71[698MHz]



LTEB3[1710MHz]

LTEB2[1850MHz]

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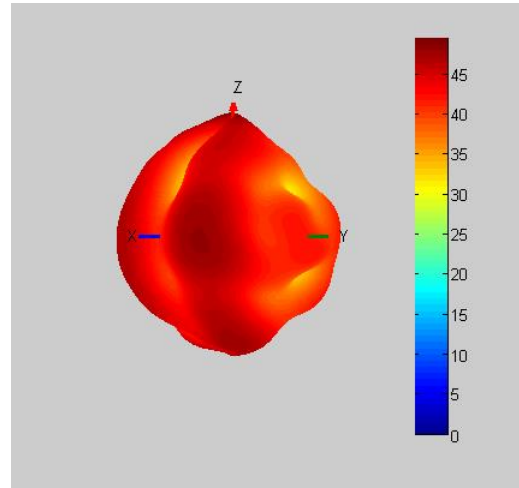
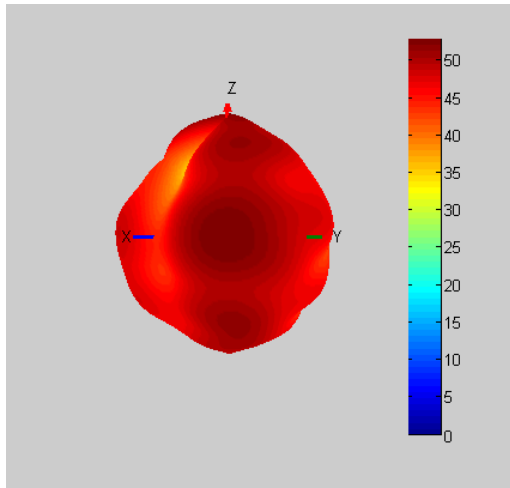
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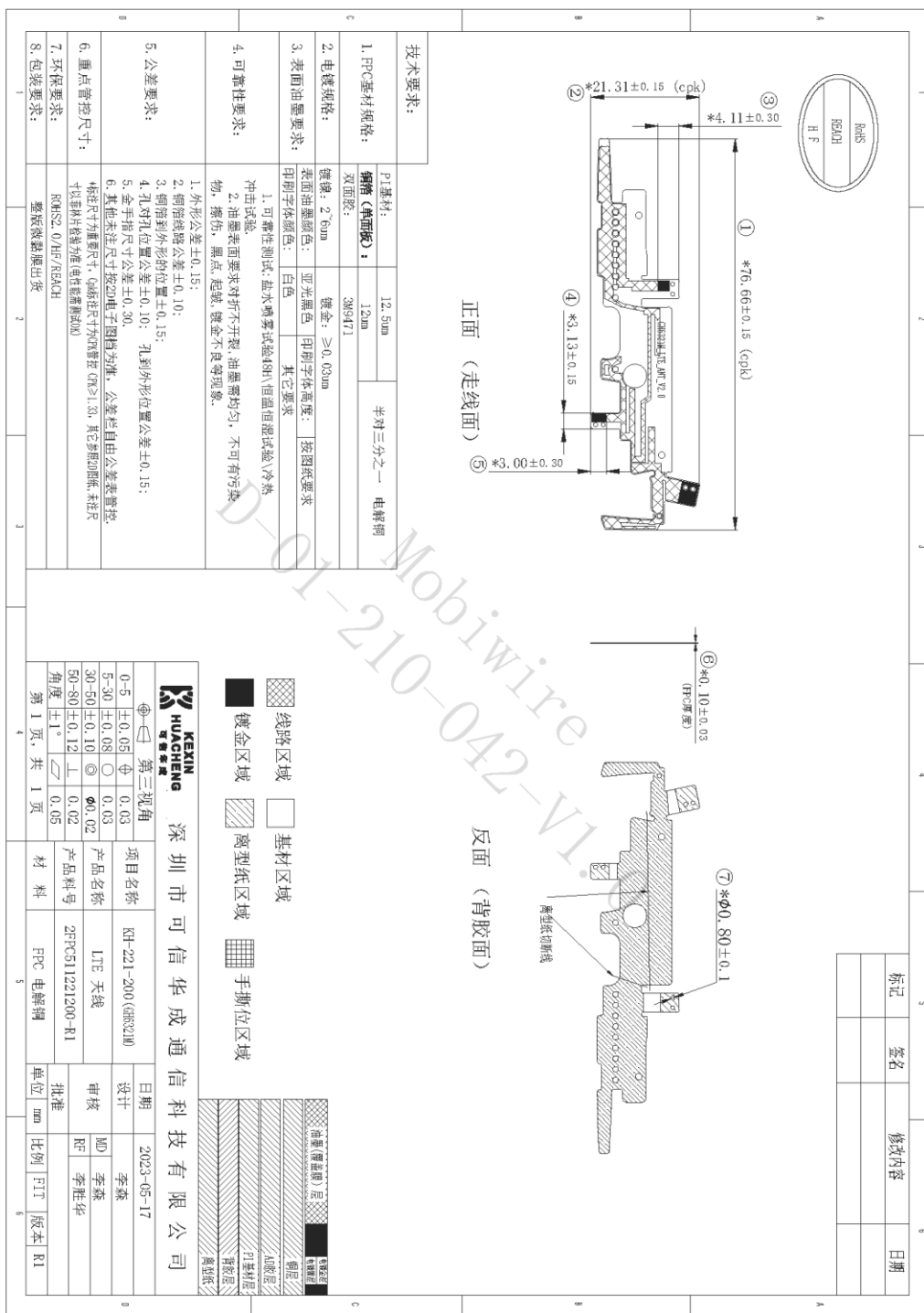
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4. Antenna Dimensions:

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