



产品名称	超宽带小型化天线	编制部门	技术中心	版本修订	22-1
产品型号	SHJJ-ANT-KDX1	文件标准号		JJANT-22-02-10	

## 一、技术指标

### (1) 电性能指标

频率范围：698-980MHz；  
1710-5000MHz

频带宽度：282MHz；  
3290MHz

输入阻抗：50  $\Omega$

电压驻波比： $\leq 2.5$

增益：2dBi (典型值)

最大输入功率：50W

### (2) 机械指标

长度： $< 130\text{mm}$

宽度： $< 35\text{mm}$

厚度： $< 1.5\text{mm}$

连接器：SMA male

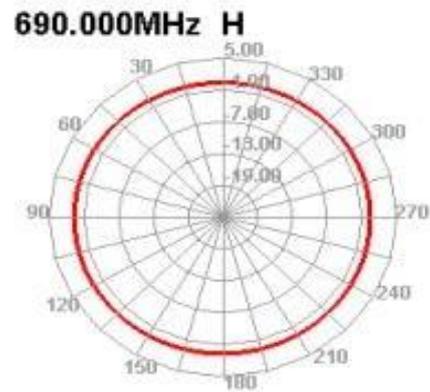
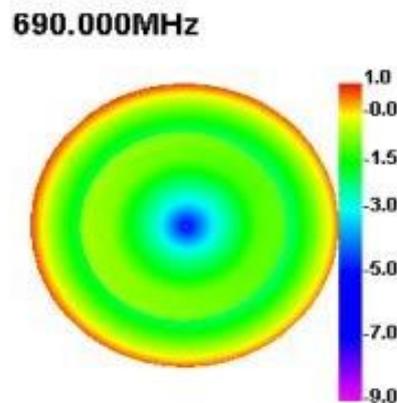
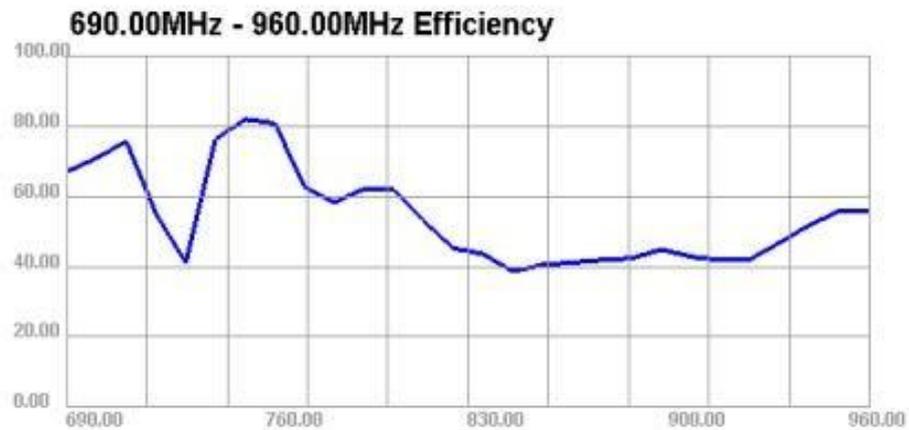
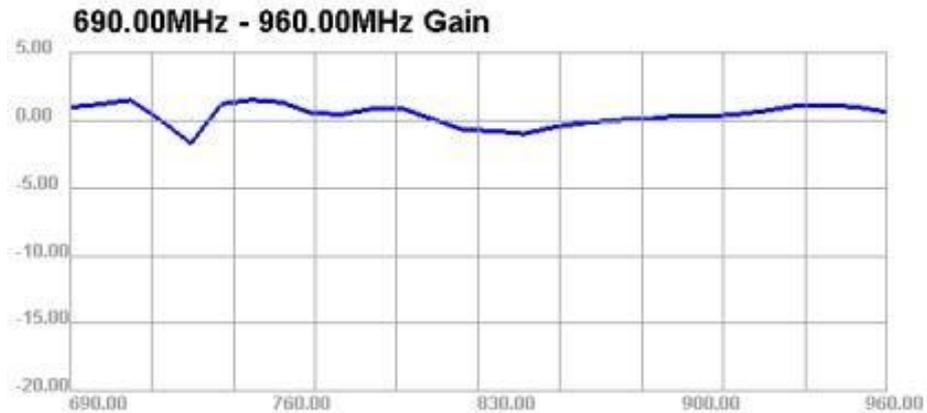
重量： $< 10\text{g}$



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## 二、测试图

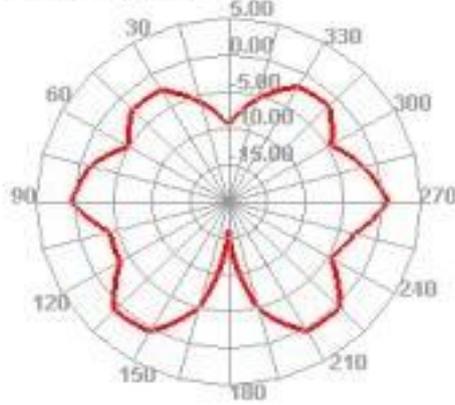
### (1) 698-980MHz增益&方向图



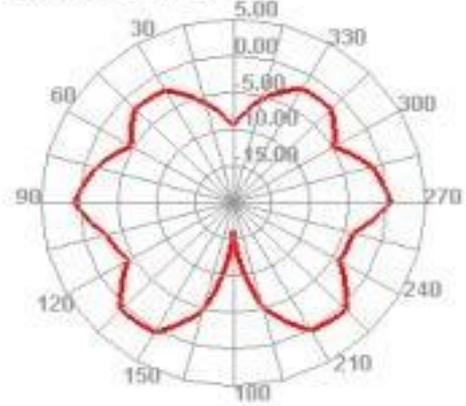


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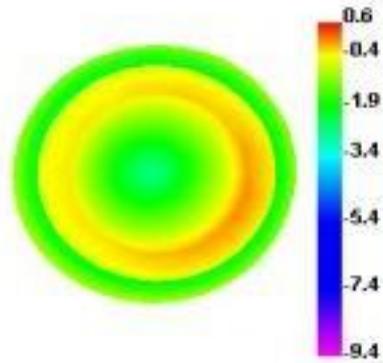
690.000MHz E1



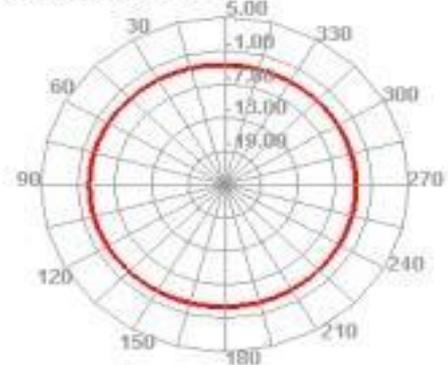
690.000MHz E2



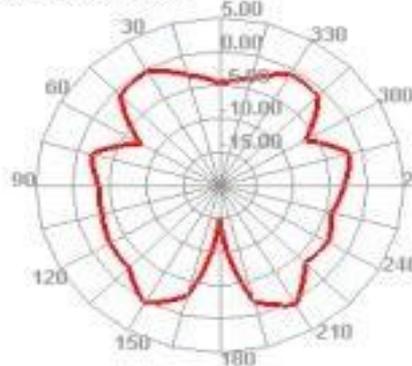
960.000MHz



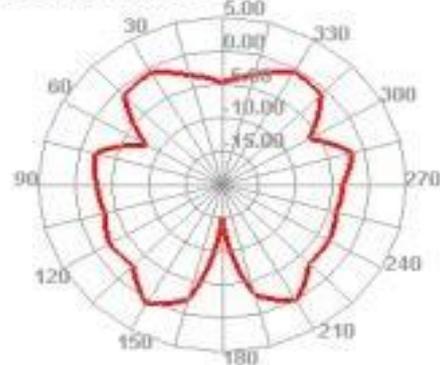
960.000MHz H



960.000MHz E1



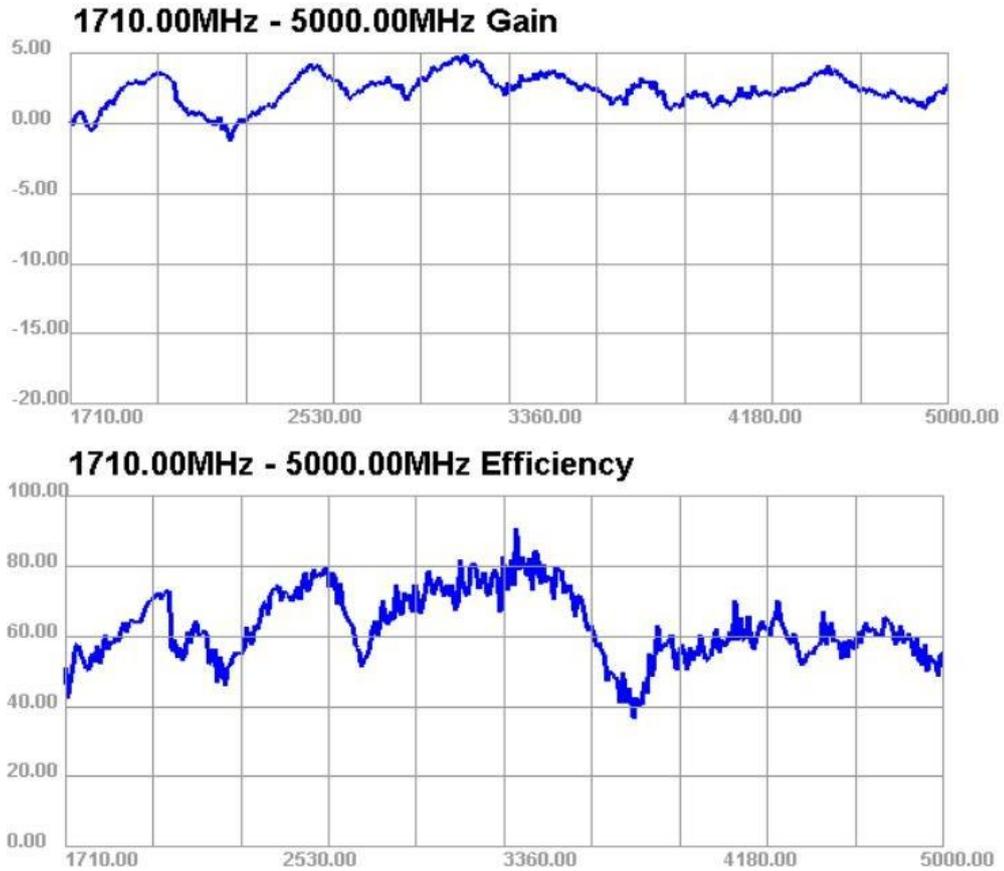
960.000MHz E2





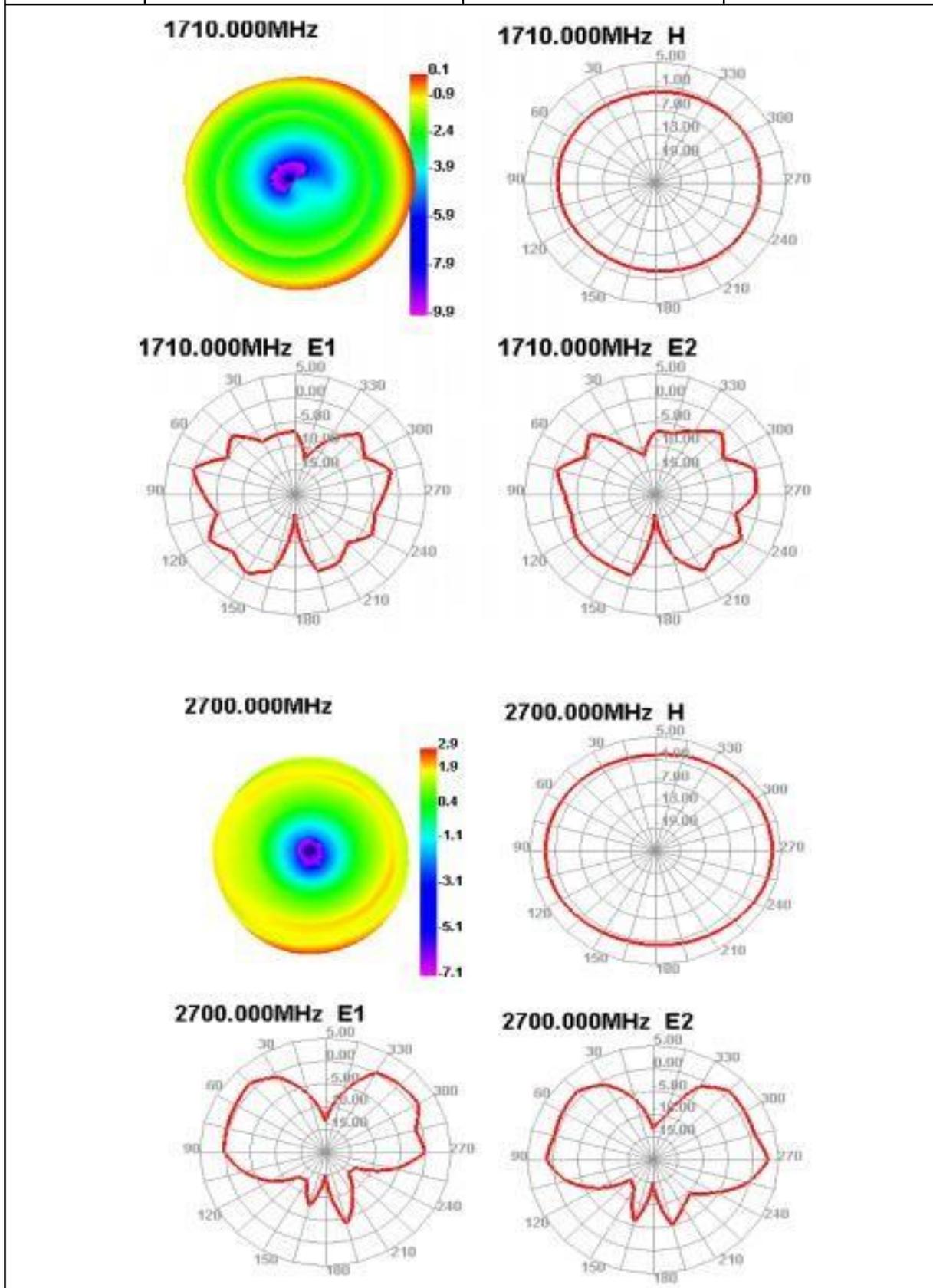
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(2) 1710-5000MHz增益&方向图





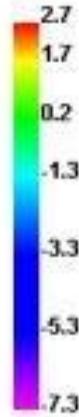
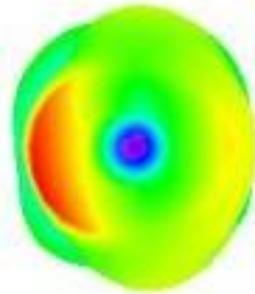
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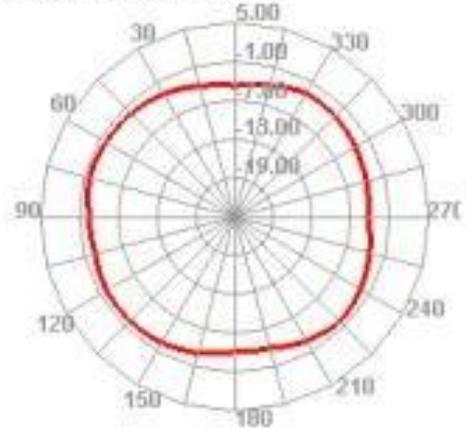


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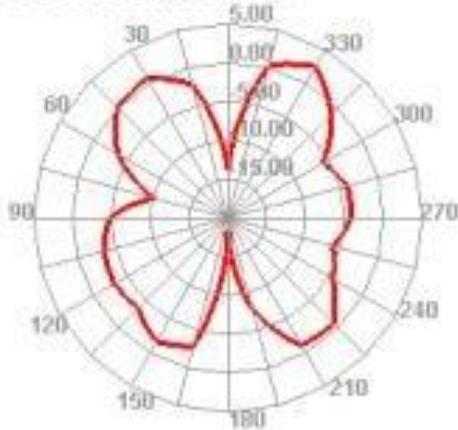
5000.000MHz



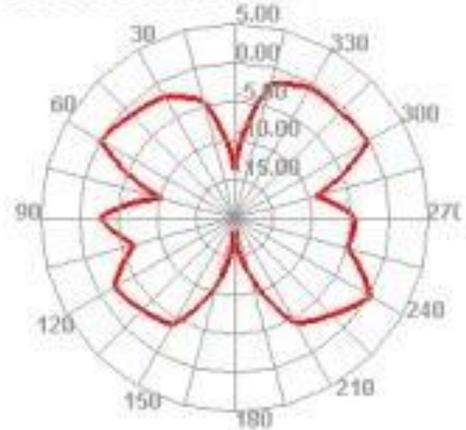
5000.000MHz H



5000.000MHz E1



5000.000MHz E2





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### 三、测试数据

#### (1) 698-980MHz测试数据

Passive Test For 5G Low Frequency												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
690	67	-1.74	0.96	-1.19	30.68	36.317	0.96	-16.15	2.7	15	38.96	38.58
700	70.91	-1.49	1.19	-0.96	32.625	38.288	1.19	-16.38	2.68	15	38.67	38.35
710	75.61	-1.21	1.49	-0.66	34.975	40.636	1.49	-15.32	2.7	15	38.56	38.31
720	55.04	-2.59	0	-2.15	25.28	29.764	0	-14.8	2.59	15	37.98	37.82
730	41.15	-3.86	-1.72	-3.87	22.288	18.861	-1.72	-16.29	2.14	15	37.83	37.7
740	76.16	-1.18	1.2	-0.95	38.933	37.23	1.2	-15.95	2.38	60	37.76	37.64
750	81.97	-0.86	1.5	-0.65	39.111	42.861	1.5	-15.13	2.36	15	37.77	37.66
760	80.77	-0.93	1.33	-0.82	36.419	44.35	1.33	-13.67	2.26	15	37.93	37.81
770	62.7	-2.03	0.51	-1.64	27.045	35.657	0.51	-12.43	2.54	15	37.24	37.1
780	58.29	-2.34	0.45	-1.7	23.898	34.388	0.45	-11.76	2.79	15	37.19	37.03
790	62.15	-2.07	0.85	-1.3	24.45	37.703	0.85	-11.77	2.91	15	37.73	37.56
800	61.96	-2.08	0.84	-1.31	23.575	38.383	0.84	-12.16	2.92	15	37.94	37.73
810	53.07	-2.75	0.08	-2.07	19.732	33.34	0.08	-12.66	2.83	15	37.96	37.73
820	45.22	-3.45	-0.71	-2.86	16.615	28.608	-0.71	-12.78	2.74	15	38.16	37.9
830	43.62	-3.6	-0.78	-2.93	15.956	27.665	-0.78	-12.9	2.82	15	38.49	38.22
840	38.66	-4.13	-0.99	-3.14	14.105	24.555	-0.99	-14.55	3.13	15	38.52	38.25
850	40.51	-3.92	-0.5	-2.65	14.723	25.79	-0.5	-15.9	3.42	15	38.8	38.54
860	41.16	-3.85	-0.19	-2.34	15.087	26.076	-0.19	-15.95	3.66	15	39.07	38.78
870	41.92	-3.78	0.01	-2.14	15.627	26.294	0.01	-14.6	3.79	15	39.12	38.77
880	42.39	-3.73	0.06	-2.09	15.9	26.487	0.06	-13.74	3.79	15	39.36	38.96
890	44.91	-3.48	0.31	-1.84	16.54	28.365	0.31	-13.72	3.79	15	39.65	39.24
900	42.83	-3.68	0.26	-1.89	15.296	27.532	0.26	-14.65	3.94	15	39.83	39.42
910	41.82	-3.79	0.43	-1.72	15.064	26.757	0.43	-15.76	4.21	15	40.07	39.66
920	42.2	-3.75	0.7	-1.45	15.775	26.427	0.7	-16.78	4.45	15	40.27	39.84
930	46.95	-3.28	1.08	-1.07	19.114	27.84	1.08	-16.52	4.36	15	40.25	39.72
940	51.96	-2.84	1.14	-1.01	23.572	28.385	1.14	-15.46	3.98	15	40.32	39.64
950	55.89	-2.53	0.97	-1.18	27.493	28.395	0.97	-14.91	3.49	15	40.43	39.66
960	55.83	-2.53	0.62	-1.53	28.006	27.825	0.62	-15.22	3.15	15	40.19	39.43



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(2) 1710-5000MHz测试数据

Passive Test For 5G High Frequency												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
1710	50.97	-2.93	0.15	-2	25.838	25.137	0.15	-15.98	3.08	15	42.93	42.83
1720	42.57	-3.71	-0.14	-2.29	21.596	20.975	-0.14	-16.57	3.57	15	42.39	42.21
1730	47.65	-3.22	0.45	-1.7	23.964	23.688	0.45	-15.92	3.67	15	42.54	42.32
1740	52.06	-2.83	0.71	-1.44	25.745	26.318	0.71	-17.95	3.54	15	43.04	42.83
1750	57.53	-2.4	0.89	-1.26	27.92	29.608	0.89	-19.31	3.29	15	43.34	43.13
1760	57.23	-2.42	0.55	-1.6	27.208	30.019	0.55	-19.42	2.98	15	43.47	43.24
1770	54.56	-2.63	0	-2.15	25.338	29.219	0	-20.65	2.63	15	43.46	43.23
1780	52.7	-2.78	-0.42	-2.57	23.908	28.792	-0.42	-23.34	2.37	15	43.43	43.19
1790	50.77	-2.94	-0.53	-2.68	22.608	28.158	-0.53	-23.55	2.42	15	43.24	42.93
1800	50.45	-2.97	-0.4	-2.55	22.145	28.306	-0.4	-21.33	2.58	15	43.22	42.83
1810	55.15	-2.58	0.28	-1.87	23.797	31.354	0.28	-18.35	2.86	15	43.51	43.1
1820	52.72	-2.78	0.44	-1.71	22.03	30.687	0.44	-19.01	3.22	15	43.48	43.11
1830	57.08	-2.43	1.14	-1.01	22.79	34.293	1.14	-18.83	3.58	15	43.51	43.14
1840	52.02	-2.84	0.98	-1.17	19.741	32.282	0.98	-19.55	3.82	15	43.51	43.17
1850	56.08	-2.51	1.39	-0.76	20.184	35.891	1.39	-19.43	3.9	15	43.63	43.35
1860	60.21	-2.2	1.69	-0.46	20.457	39.752	1.69	-19.3	3.9	15	43.69	43.39
1870	56	-2.52	1.28	-0.87	18.026	37.978	1.28	-25.17	3.8	15	43.56	43.27
1880	58.17	-2.35	1.79	-0.36	18.018	40.154	1.79	-23.74	4.14	15	43.65	43.38
1890	58.16	-2.35	2.09	-0.06	17.433	40.728	2.09	-22.72	4.44	15	43.67	43.34
1900	59.6	-2.25	2.42	0.27	17.261	42.336	2.42	-22.06	4.66	15	43.64	43.41
1910	58.57	-2.32	2.47	0.32	16.53	42.045	2.47	-22.13	4.79	15	43.69	43.44
1920	61.78	-2.09	2.73	0.58	17.196	44.587	2.73	-23.32	4.82	15	43.79	43.57
1930	64.04	-1.94	2.9	0.75	17.751	46.288	2.9	-24.71	4.83	15	43.89	43.65
1940	61.23	-2.13	2.7	0.55	17.084	44.15	2.7	-25.33	4.83	15	43.87	43.66
1950	64.25	-1.92	2.93	0.78	18.365	45.889	2.93	-21.37	4.85	15	43.95	43.7
1960	64.82	-1.88	2.97	0.82	19.335	45.487	2.97	-17.6	4.85	15	43.94	43.69
1970	63.88	-1.95	2.85	0.7	20.02	43.865	2.85	-15.08	4.8	15	44.09	43.96
1980	64.67	-1.89	2.9	0.75	21.073	43.599	2.9	-13.3	4.8	15	44.17	43.95
1990	63.82	-1.95	2.86	0.71	21.168	42.656	2.86	-12.64	4.81	15	44.2	44.06
2000	65.69	-1.83	3.04	0.89	21.704	43.983	3.04	-13.13	4.86	15	44.57	44.42
2010	68	-1.67	3.27	1.12	22.02	45.984	3.27	-14.68	4.95	15	44.69	44.52
2020	69.51	-1.58	3.42	1.27	22.014	47.494	3.42	-16.07	5	15	44.86	44.78
2030	70.29	-1.53	3.49	1.34	22.026	48.263	3.49	-16.25	5.02	15	45.04	44.98
2040	70.56	-1.51	3.49	1.34	22.151	48.413	3.49	-18.57	5	15	45.12	45.07
2050	71.59	-1.45	3.52	1.37	22.593	48.996	3.52	-22.34	4.97	15	45.01	44.95
2060	72.64	-1.39	3.53	1.38	23.019	49.618	3.53	-22.42	4.92	15	45.26	45.2
2070	70.65	-1.51	3.31	1.16	22.519	48.134	3.31	-18.93	4.81	15	45.22	45.06
2080	72.25	-1.41	3.22	1.07	23.189	49.058	3.22	-15.27	4.63	15	45.28	45.12
2090	72.66	-1.39	3.04	0.89	23.433	49.223	3.04	-12.66	4.43	15	45.5	45.36
2100	72.61	-1.39	2.85	0.7	23.457	49.149	2.85	-12.87	4.24	15	45.71	45.51
2110	55.5	-2.56	1.49	-0.66	18.032	37.464	1.49	-15.86	4.05	15	44.31	44.12
2120	58.88	-2.3	1.6	-0.55	19.446	39.433	1.6	-16.4	3.9	45	44.53	44.39
2130	54.14	-2.66	1.08	-1.07	18.406	35.733	1.08	-15.33	3.75	45	44.47	44.28
2140	56.72	-2.46	1.12	-1.03	20.182	36.536	1.12	-15.68	3.59	45	44.41	44.26
2150	53.09	-2.75	0.65	-1.5	20.006	33.079	0.65	-15.92	3.4	60	44.38	44.31
2160	55.16	-2.58	0.57	-1.58	21.98	33.182	0.57	-15.18	3.15	45	44.5	44.39
2170	61.45	-2.12	0.87	-1.28	25.584	35.863	0.87	-14.03	2.99	75	44.74	44.7
2180	57.95	-2.37	0.54	-1.61	24.863	33.087	0.54	-15.01	2.91	75	44.71	44.69
2190	62.48	-2.04	0.77	-1.38	27.429	35.05	0.77	-15.2	2.82	90	45	44.95
2200	64.38	-1.91	0.78	-1.37	28.888	35.496	0.78	-14.71	2.69	90	45.09	45.01
2210	59.93	-2.22	0.4	-1.75	27.663	32.271	0.4	-16.62	2.63	90	45.12	45.08
2220	60.98	-2.15	0.34	-1.81	29.331	31.646	0.34	-18.93	2.49	90	45.26	45.2
2230	61.58	-2.11	0.04	-2.11	31.369	30.216	0.04	-21.26	2.14	60	45.26	45.17



2240	60.27	-2.2	0.22	-1.93	32.781	27.493	0.22	-20.13	2.42	45	45.48	45.44
2250	52.15	-2.83	-0.2	-2.35	30.049	22.099	-0.2	-17.54	2.63	30	45.26	45.18
2260	52.72	-2.78	0.12	-2.03	31.442	21.274	0.12	-15.13	2.9	45	45.38	45.33
2270	56.59	-2.47	0.51	-1.64	33.936	22.649	0.51	-13.23	2.99	45	45.65	45.67
2280	46.62	-3.31	-0.47	-2.62	27.484	19.141	-0.47	-13.22	2.85	45	45.53	45.52
2290	54.24	-2.66	-0.05	-2.2	31.016	23.226	-0.05	-12.06	2.61	45	45.9	45.86
2300	50.09	-3	-0.67	-2.82	27.674	22.417	-0.67	-12.55	2.33	45	45.79	45.81
2310	46.23	-3.35	-1.25	-3.4	24.738	21.493	-1.25	-13.44	2.1	45	45.95	45.82
2320	51.86	-2.85	-0.57	-2.72	27.05	24.81	-0.57	-13.65	2.28	45	45.96	45.9
2330	51.82	-2.85	-0.23	-2.38	26.52	25.303	-0.23	-14.63	2.62	45	46.17	46.12
2340	54.81	-2.61	0.17	-1.98	27.695	27.112	0.17	-15.44	2.79	105	46.36	46.27
2350	54.88	-2.61	0.22	-1.93	27.568	27.316	0.22	-16.07	2.83	105	46.31	46.27
2360	55.47	-2.56	0.23	-1.92	27.852	27.616	0.23	-16.33	2.79	90	46.38	46.32
2370	54.66	-2.62	0.17	-1.98	27.631	27.029	0.17	-16.23	2.79	90	46.32	46.3
2380	56.54	-2.48	0.32	-1.83	28.963	27.58	0.32	-16.05	2.8	90	46.45	46.33
2390	62.33	-2.05	0.78	-1.37	32.601	29.734	0.78	-15.85	2.83	90	46.66	46.66
2400	59.35	-2.27	0.63	-1.52	31.83	27.519	0.63	-16.49	2.9	90	46.78	46.66
2410	57.58	-2.4	0.58	-1.57	31.639	25.936	0.58	-17.14	2.98	30	46.54	46.47
2420	63.18	-1.99	1.05	-1.1	35.448	27.731	1.05	-17.53	3.05	75	46.78	46.77
2430	62.08	-2.07	1	-1.15	35.425	26.654	1	-18.53	3.07	75	46.65	46.52
2440	64.78	-1.89	1.14	-1.01	37.562	27.22	1.14	-19.22	3.02	75	46.79	46.73
2450	69.16	-1.6	1.33	-0.82	40.808	28.348	1.33	-19.5	2.94	75	46.92	46.83
2460	69.59	-1.57	1.26	-0.89	41.961	27.63	1.26	-19.48	2.84	75	47.02	46.93
2470	66.22	-1.79	1.05	-1.1	40.869	25.353	1.05	-19.65	2.84	75	46.82	46.7
2480	72.47	-1.4	1.54	-0.61	45.637	26.831	1.54	-19.29	2.94	75	47.15	47.03
2490	72.99	-1.37	1.72	-0.43	46.575	26.414	1.72	-18.91	3.08	60	47.25	47.04
2500	73.94	-1.31	1.99	-0.16	47.458	26.479	1.99	-18.18	3.3	15	47.08	46.9
2510	74.16	-1.3	2.24	0.09	47.613	26.548	2.24	-17.47	3.54	15	47.12	46.99
2520	70.2	-1.54	2.22	0.07	44.964	25.231	2.22	-17.16	3.76	15	46.86	46.73
2530	72.69	-1.39	2.59	0.44	46.382	26.308	2.59	-16.9	3.97	15	46.86	46.77
2540	71.95	-1.43	2.76	0.61	45.542	26.406	2.76	-16.84	4.19	15	46.67	46.65
2550	71.29	-1.47	2.94	0.79	44.308	26.987	2.94	-16.32	4.41	15	46.89	46.85
2560	69.9	-1.56	3.08	0.93	41.982	27.914	3.08	-15.86	4.64	15	46.64	46.58
2570	72.05	-1.42	3.45	1.3	41.411	30.639	3.45	-15.52	4.87	15	46.93	46.95
2580	73.98	-1.31	3.74	1.59	40.825	33.154	3.74	-15.27	5.05	0	46.92	46.77
2590	70.29	-1.53	3.61	1.46	37.886	32.401	3.61	-15.54	5.14	0	46.68	46.61
2600	75.47	-1.22	3.97	1.82	40.544	34.925	3.97	-15.28	5.19	0	47.08	46.99
2610	78.32	-1.06	4.17	2.02	42.621	35.695	4.17	-15.4	5.23	0	46.94	46.85
2620	72.73	-1.38	3.87	1.72	40.397	32.328	3.87	-16.43	5.25	0	46.88	46.79
2630	75.27	-1.23	3.99	1.84	42.93	32.336	3.99	-16.87	5.23	0	47.1	47.01
2640	78.91	-1.03	4.08	1.93	46.473	32.442	4.08	-16.63	5.1	0	47.49	47.35
2650	76.72	-1.15	3.72	1.57	46.983	29.736	3.72	-15.96	4.87	75	47.39	47.27
2660	77.55	-1.1	3.5	1.35	49.624	27.93	3.5	-15.54	4.6	75	47.66	47.54
2670	77.2	-1.12	3.25	1.1	51.561	25.636	3.25	-15.39	4.37	75	47.76	47.6
2680	79.08	-1.02	3.26	1.11	54.877	24.208	3.26	-14.89	4.28	60	47.81	47.7
2690	79.82	-0.98	3.26	1.11	57.074	22.746	3.26	-14.59	4.24	60	47.82	47.71



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2700	73.94	-1.31	2.93	0.78	54.138	19.801	2.93	-15.16	4.24	60	48.01	47.89
2710	78.25	-1.06	3.13	0.98	58.316	19.939	3.13	-15.92	4.19	60	47.92	47.8
2720	76.64	-1.16	2.93	0.78	57.981	18.661	2.93	-16.64	4.08	60	48.14	48.08
2730	68.93	-1.62	2.33	0.18	52.843	16.083	2.33	-18.15	3.95	60	48.25	48.08
2740	75.05	-1.25	2.51	0.36	58.299	16.75	2.51	-17.7	3.76	30	48.05	47.95
2750	68.47	-1.65	1.92	-0.23	53.896	14.57	1.92	-18.65	3.57	30	48.48	48.39
2760	66.18	-1.79	1.75	-0.4	52.679	13.502	1.75	-18.96	3.54	30	48.21	48.05
2770	64.45	-1.91	1.9	-0.25	51.838	12.617	1.9	-19.95	3.81	30	48.16	48.11
2780	63.49	-1.97	2.11	-0.04	51.453	12.032	2.11	-20.3	4.09	30	48.16	48.05
2790	62.01	-2.08	2.29	0.14	50.489	11.519	2.29	-18.59	4.37	30	48.23	48.14
2800	56.67	-2.47	2.19	0.04	46.156	10.513	2.19	-19.02	4.66	15	47.99	47.84
2810	56.21	-2.5	2.52	0.37	45.529	10.681	2.52	-18.17	5.02	15	48.11	47.99
2820	51.27	-2.9	2.47	0.32	40.99	10.282	2.47	-19.55	5.37	0	48.3	48.12
2830	53.34	-2.73	2.84	0.69	41.936	11.407	2.84	-19.7	5.57	0	48.21	48.04
2840	54.41	-2.64	2.9	0.75	42.254	12.157	2.9	-18.5	5.54	0	48.43	48.36
2850	56.53	-2.48	2.77	0.62	43.493	13.039	2.77	-16.8	5.24	0	48.37	48.19
2860	61.87	-2.09	2.82	0.67	47.335	14.531	2.82	-15.53	4.91	15	48.49	48.37
2870	64.21	-1.92	3.01	0.86	48.971	15.243	3.01	-14.58	4.93	15	48.57	48.5
2880	60.14	-2.21	2.69	0.54	45.85	14.288	2.69	-16.93	4.9	15	48.39	48.25
2890	63.54	-1.97	2.9	0.75	48.565	14.98	2.9	-21.74	4.87	15	48.45	48.32
2900	70.21	-1.54	3.28	1.13	53.851	16.361	3.28	-26.67	4.82	15	48.9	48.8
2910	64.05	-1.93	2.79	0.64	49.18	14.873	2.79	-25.07	4.72	15	48.71	48.51
2920	63.21	-1.99	2.64	0.49	48.369	14.843	2.64	-21.75	4.63	15	48.59	48.45
2930	67.05	-1.74	2.75	0.6	50.752	16.298	2.75	-21.5	4.49	30	48.63	48.41
2940	64.42	-1.91	2.41	0.26	47.989	16.436	2.41	-21.89	4.32	30	48.66	48.48
2950	74.77	-1.26	2.78	0.63	54.755	20.019	2.78	-19.8	4.04	30	49.12	48.85
2960	68	-1.67	1.98	-0.17	49.019	18.986	1.98	-19.82	3.66	30	48.59	48.39
2970	65.73	-1.82	1.55	-0.6	46.717	19.012	1.55	-20.04	3.37	30	48.88	48.63
2980	72.18	-1.42	2.08	-0.07	50.99	21.187	2.08	-20.94	3.5	30	48.76	48.42
2990	69.91	-1.55	2.23	0.08	49.973	19.938	2.23	-19.79	3.78	30	48.9	48.67
3000	71.86	-1.44	2.7	0.55	52.659	19.198	2.7	-16.13	4.13	30	48.79	48.36
3010	66.72	-1.76	2.64	0.49	50.056	16.669	2.64	-18.94	4.4	30	48.42	48.14
3020	74.66	-1.27	3.29	1.14	56.764	17.891	3.29	-18.36	4.56	30	49.19	48.85
3030	72.3	-1.41	3.28	1.13	55.259	17.042	3.28	-20.05	4.69	30	48.64	48.28
3040	66.25	-1.79	2.98	0.83	50.466	15.788	2.98	-20.85	4.77	30	48.51	48.18
3050	69.35	-1.59	3.25	1.1	52.535	16.819	3.25	-20.08	4.84	30	48.39	48.06
3060	73.09	-1.36	3.59	1.44	55.175	17.914	3.59	-19.05	4.95	30	48.76	48.44
3070	78.69	-1.04	4.01	1.86	59.39	19.304	4.01	-17.51	5.05	30	49.08	48.79
3080	74.76	-1.26	3.87	1.72	56.477	18.287	3.87	-16.18	5.13	30	48.77	48.55
3090	71.65	-1.45	3.74	1.59	53.854	17.798	3.74	-14.85	5.19	30	48.6	48.35
3100	75.13	-1.24	3.98	1.83	55.775	19.358	3.98	-13.45	5.22	15	48.71	48.51
3110	76.79	-1.15	4.16	2.01	56.071	20.718	4.16	-13.4	5.31	15	48.8	48.65
3120	74.04	-1.31	4.16	2.01	53.231	20.807	4.16	-13.19	5.47	15	48.86	48.73
3130	71.38	-1.46	4.15	2	50.58	20.797	4.15	-13.03	5.62	15	48.49	48.39
3140	74.63	-1.27	4.53	2.38	52.353	22.278	4.53	-12.18	5.8	15	48.8	48.79



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3150	71.44	-1.46	4.5	2.35	49.921	21.519	4.5	-12.37	5.96	15	49	48.96
3160	74.52	-1.28	4.76	2.61	52.083	22.439	4.76	-12.91	6.04	15	48.87	48.85
3170	67.55	-1.7	4.36	2.21	47.075	20.477	4.36	-13.5	6.07	15	48.82	48.84
3180	68.94	-1.62	4.39	2.24	47.341	21.597	4.39	-12.58	6	0	48.79	48.75
3190	81.47	-0.89	4.98	2.83	54.872	26.598	4.98	-10.91	5.87	0	49.49	49.53
3200	75.01	-1.25	4.34	2.19	49.648	25.358	4.34	-10.47	5.59	15	49.02	49
3210	71.82	-1.44	4.09	1.94	46.958	24.866	4.09	-10.19	5.53	15	48.74	48.77
3220	71.67	-1.45	4.11	1.96	46.486	25.183	4.11	-15.2	5.56	15	48.7	48.67
3230	79.79	-0.98	4.49	2.34	51.431	28.36	4.49	-28.18	5.47	0	49.16	49.14
3240	80.92	-0.92	4.43	2.28	52.066	28.857	4.43	-14.1	5.35	15	49.34	49.32
3250	78.73	-1.04	4.16	2.01	50.756	27.977	4.16	-12.48	5.2	15	49.18	49.09
3260	73.28	-1.35	3.62	1.47	47.32	25.959	3.62	-13.79	4.98	15	49.02	48.98
3270	75.74	-1.21	3.52	1.37	48.843	26.899	3.52	-13.92	4.73	30	49.18	49.11
3280	78.45	-1.05	3.42	1.27	50.17	28.276	3.42	-13.35	4.48	30	49.36	49.3
3290	71.82	-1.44	2.82	0.67	45.23	26.59	2.82	-13.41	4.26	30	49.01	48.94
3300	71.92	-1.43	2.6	0.45	44.564	27.355	2.6	-13.3	4.03	30	48.98	48.93
3310	77.13	-1.13	2.71	0.56	47.269	29.862	2.71	-12.86	3.84	30	49.34	49.24
3320	78.91	-1.03	2.68	0.53	48.24	30.67	2.68	-13.82	3.71	30	49.5	49.39
3330	75.87	-1.2	2.44	0.29	46.453	29.421	2.44	-15.6	3.63	30	49.47	49.31
3340	66.71	-1.76	1.95	-0.2	40.917	25.793	1.95	-18.01	3.71	30	49.16	49.04
3350	82.4	-0.84	2.9	0.75	50.353	32.043	2.9	-19.6	3.74	30	49.85	49.69
3360	76.08	-1.19	2.55	0.4	46.029	30.051	2.55	-23.02	3.74	30	49.84	49.68
3370	73.22	-1.35	2.31	0.16	43.575	29.643	2.31	-26.38	3.66	30	49.7	49.51
3380	81.82	-0.87	2.77	0.62	47.819	34	2.77	-28.19	3.65	30	49.94	49.69
3390	74.56	-1.27	2.44	0.29	42.985	31.579	2.44	-28.22	3.72	30	49.88	49.71
3400	90.68	-0.42	3.39	1.24	51.761	38.922	3.39	-26.36	3.82	30	50.33	50.05
3410	79.05	-1.02	2.9	0.75	44.948	34.106	2.9	-26.86	3.92	30	50.02	49.8
3420	82.68	-0.83	3.15	1	46.8	35.877	3.15	-27.69	3.97	30	50.02	49.7
3430	79.98	-0.97	3.11	0.96	45.106	34.87	3.11	-24.91	4.09	30	49.91	49.61
3440	76.96	-1.14	3.1	0.95	43.173	33.785	3.1	-23	4.24	30	49.69	49.39
3450	82.32	-0.84	3.52	1.37	46.003	36.318	3.52	-20.92	4.36	15	49.99	49.71
3460	73.26	-1.35	3.07	0.92	41.094	32.17	3.07	-18.9	4.42	15	49.69	49.4
3470	84.62	-0.73	3.66	1.51	48.19	36.427	3.66	-19.54	4.38	15	50.31	49.99
3480	83.08	-0.8	3.51	1.36	48.602	34.481	3.51	-23.52	4.32	15	50.24	49.97
3490	75.02	-1.25	3.15	1	45.143	29.874	3.15	-22.43	4.4	15	49.83	49.52
3500	80.72	-0.93	3.71	1.56	49.961	30.761	3.71	-23.79	4.64	15	50.15	49.9
3510	75.45	-1.22	3.56	1.41	47.681	27.766	3.56	-22.31	4.78	15	49.8	49.53
3520	76.82	-1.15	3.64	1.49	49.166	27.654	3.64	-28.3	4.79	30	49.92	49.65
3530	76.82	-1.15	3.6	1.45	49.246	27.571	3.6	-39.03	4.74	30	49.97	49.68
3540	70.69	-1.51	3.14	0.99	44.896	25.797	3.14	-32.43	4.65	30	49.6	49.39
3550	80.04	-0.97	3.54	1.39	50.265	29.773	3.54	-27.3	4.51	30	49.98	49.74
3560	78.29	-1.06	3.33	1.18	48.8	29.489	3.33	-24.62	4.4	30	50.02	49.76
3570	78.72	-1.04	3.27	1.12	49.21	29.506	3.27	-21.73	4.31	30	49.98	49.78
3580	72	-1.43	2.85	0.7	45.482	26.518	2.85	-19.38	4.27	30	49.7	49.46
3590	74.01	-1.31	2.92	0.77	47.242	26.771	2.92	-17.36	4.23	30	49.91	49.74
3600	74.49	-1.28	2.89	0.74	47.706	26.784	2.89	-16.77	4.17	30	49.98	49.77



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3610	70.86	-1.5	2.62	0.47	45.24	25.618	2.62	-16.77	4.11	30	49.76	49.58
3620	65.74	-1.82	2.28	0.13	41.73	24.014	2.28	-16.49	4.1	30	49.47	49.28
3630	71.69	-1.45	2.68	0.53	45.326	26.359	2.68	-15.58	4.12	30	49.89	49.73
3640	71.46	-1.46	2.73	0.58	45.251	26.209	2.73	-14.9	4.19	45	49.87	49.72
3650	68.39	-1.65	2.63	0.48	43.544	24.849	2.63	-14	4.28	45	49.81	49.62
3660	64.35	-1.91	2.46	0.31	41.124	23.229	2.46	-12.84	4.38	45	49.75	49.6
3670	61.42	-2.12	2.37	0.22	39.142	22.277	2.37	-12.26	4.48	45	49.57	49.42
3680	62.96	-2.01	2.53	0.38	39.621	23.342	2.53	-11.95	4.54	15	49.86	49.73
3690	60.89	-2.15	2.39	0.24	37.679	23.208	2.39	-12.31	4.55	15	49.99	49.9
3700	57.34	-2.42	2.08	-0.07	35.029	22.313	2.08	-12.82	4.49	15	49.65	49.53
3710	58.09	-2.36	2	-0.15	35.249	22.843	2	-12.66	4.36	30	49.92	49.81
3720	55.75	-2.54	1.83	-0.32	33.792	21.963	1.83	-12.51	4.37	30	50.32	50.26
3730	54.68	-2.62	1.89	-0.26	33.106	21.579	1.89	-12.46	4.51	30	49.92	49.83
3740	47.07	-3.27	1.31	-0.84	28.365	18.71	1.31	-15.63	4.59	30	49.96	49.88
3750	49.98	-3.01	1.69	-0.46	29.882	20.099	1.69	-18.79	4.7	30	49.83	49.72
3760	48.74	-3.12	1.74	-0.41	28.856	19.886	1.74	-22.24	4.86	30	50.34	50.26
3770	48.62	-3.13	1.85	-0.3	28.549	20.066	1.85	-20.41	4.99	15	50.06	49.99
3780	47.11	-3.27	1.8	-0.35	27.616	19.49	1.8	-20.95	5.07	15	50.48	50.41
3790	40.76	-3.9	1.22	-0.93	24.036	16.723	1.22	-19.33	5.11	15	50.31	50.29
3800	49.6	-3.05	2.48	0.33	29.528	20.071	2.48	-17.6	5.52	15	50.69	50.56
3810	41.09	-3.86	2.07	-0.08	24.69	16.405	2.07	-18.31	5.94	0	51.57	51.57
3820	45.38	-3.43	2.81	0.66	27.386	17.992	2.81	-19.19	6.24	0	50.58	50.52
3830	41.69	-3.8	2.75	0.6	25.292	16.395	2.75	-19.22	6.55	0	50.73	50.67
3840	36.55	-4.37	2.45	0.3	22.247	14.303	2.45	-24.47	6.82	0	50.34	50.29
3850	42.51	-3.71	3.21	1.06	25.953	16.558	3.21	-31.71	6.93	0	50.31	50.24
3860	40.83	-3.89	3.02	0.87	25.065	15.762	3.02	-19.77	6.92	0	50.29	50.22
3870	40.66	-3.91	2.76	0.61	25.106	15.552	2.76	-16.52	6.67	0	50.2	50.13
3880	46.91	-3.29	3.05	0.9	29.267	17.646	3.05	-17.48	6.33	0	50.55	50.48
3890	43.72	-3.59	2.34	0.19	27.485	16.239	2.34	-19.36	5.93	0	50.53	50.39
3900	54.97	-2.6	2.99	0.84	34.814	20.159	2.99	-18.5	5.59	0	50.9	50.82
3910	48.57	-3.14	2	-0.15	30.785	17.783	2	-25.26	5.14	15	50.61	50.51
3920	55.33	-2.57	2.16	0.01	35.033	20.297	2.16	-21.57	4.73	30	50.8	50.66
3930	63.05	-2	2.29	0.14	39.687	23.36	2.29	-17.45	4.3	15	51.53	51.39
3940	55.81	-2.53	1.33	-0.82	34.631	21.183	1.33	-17.18	3.86	0	51.07	50.98
3950	57.57	-2.4	1.06	-1.09	34.987	22.584	1.06	-17.3	3.46	15	50.86	50.72
3960	57.62	-2.39	1.02	-1.13	34.081	23.539	1.02	-17.27	3.42	0	51.31	51.24
3970	58.05	-2.36	1.13	-1.02	33.45	24.605	1.13	-17.5	3.49	0	50.92	50.82
3980	60.7	-2.17	1.42	-0.73	34.002	26.694	1.42	-18.03	3.59	0	51.35	51.18
3990	54.27	-2.65	1.21	-0.94	29.497	24.772	1.21	-18.23	3.86	15	50.56	50.49
4000	50.39	-2.98	1.15	-1	26.415	23.977	1.15	-20.64	4.13	0	50.53	50.41
4010	55.25	-2.58	1.74	-0.41	27.776	27.473	1.74	-22.83	4.32	15	50.73	50.66
4020	57.55	-2.4	2	-0.15	27.649	29.901	2	-23.71	4.4	15	51.04	50.93
4030	54.66	-2.62	1.97	-0.18	25.144	29.518	1.97	-23.4	4.6	15	51.19	51.14
4040	50.33	-2.98	1.78	-0.37	22.405	27.927	1.78	-22.49	4.76	15	50.74	50.67
4050	56.96	-2.44	2.34	0.19	25.064	31.892	2.34	-20.6	4.79	15	51.62	51.56
4060	52.79	-2.77	1.97	-0.18	23.488	29.297	1.97	-17.49	4.75	0	51.11	51.11
4070	55.81	-2.53	2.11	-0.04	25.545	30.266	2.11	-18.54	4.65	0	51.2	51.1
4080	54.36	-2.65	1.86	-0.29	25.843	28.516	1.86	-21.71	4.51	0	51.11	51.07
4090	60.44	-2.19	2.19	0.04	29.932	30.507	2.19	-21.47	4.38	0	51.3	51.25
4100	56.31	-2.49	1.74	-0.41	28.976	27.33	1.74	-18.8	4.24	0	51.01	50.94



产品名称	超宽带小型化天线				编制部门	技术中心			版本修订	22-1	
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4010	55.25	-2.58	1.74	-0.41	27.776	27.473	1.74	-22.83	4.32	15	50.73	50.66
4020	57.55	-2.4	2	-0.15	27.649	29.901	2	-23.71	4.4	15	51.04	50.93
4030	54.66	-2.62	1.97	-0.18	25.144	29.518	1.97	-23.4	4.6	15	51.19	51.14
4040	50.33	-2.98	1.78	-0.37	22.405	27.927	1.78	-22.49	4.76	15	50.74	50.67
4050	56.96	-2.44	2.34	0.19	25.064	31.892	2.34	-20.6	4.79	15	51.62	51.56
4060	52.79	-2.77	1.97	-0.18	23.488	29.297	1.97	-17.49	4.75	0	51.11	51.11
4070	55.81	-2.53	2.11	-0.04	25.545	30.266	2.11	-18.54	4.65	0	51.2	51.1
4080	54.36	-2.65	1.86	-0.29	25.843	28.516	1.86	-21.71	4.51	0	51.11	51.07
4090	60.44	-2.19	2.19	0.04	29.932	30.507	2.19	-21.47	4.38	0	51.3	51.25
4100	56.31	-2.49	1.74	-0.41	28.976	27.33	1.74	-18.8	4.24	0	51.01	50.94
4110	53.17	-2.74	1.33	-0.82	28.39	24.776	1.33	-16.69	4.07	0	50.77	50.71
4120	53.85	-2.69	1.17	-0.98	29.737	24.117	1.17	-16.73	3.86	0	50.78	50.71
4130	54.37	-2.65	1.34	-0.81	30.937	23.432	1.34	-16.43	3.98	0	50.77	50.68
4140	59.19	-2.28	1.78	-0.37	34.679	24.515	1.78	-15.63	4.05	0	51.63	51.54
4150	62.23	-2.06	2.01	-0.14	37.348	24.887	2.01	-15.07	4.07	0	51.11	51.04
4160	55.18	-2.58	1.46	-0.69	33.704	21.478	1.46	-15.13	4.05	0	50.83	50.74
4170	58.91	-2.3	1.66	-0.49	36.131	22.783	1.66	-14.35	3.96	0	50.79	50.69
4180	57.13	-2.43	1.33	-0.82	34.623	22.512	1.33	-13.47	3.77	0	50.7	50.65
4190	58.28	-2.34	1.44	-0.71	34.46	23.82	1.44	-13.34	3.78	15	50.71	50.63
4200	61.28	-2.13	1.78	-0.37	35.116	26.16	1.78	-14.33	3.9	30	50.98	50.89
4210	58.98	-2.29	1.79	-0.36	32.811	26.171	1.79	-14.89	4.08	30	50.95	50.91
4220	70.06	-1.55	2.61	0.46	37.954	32.11	2.61	-13.91	4.15	45	51.54	51.45
4230	58.78	-2.31	1.82	-0.33	31.054	27.723	1.82	-14.21	4.13	45	51.3	51.26
4240	65.5	-1.84	2.26	0.11	33.791	31.707	2.26	-13.02	4.1	45	51.41	51.41
4250	59.04	-2.29	1.71	-0.44	29.852	29.185	1.71	-12.66	4	45	51.11	51.09
4260	59.47	-2.26	2.02	-0.13	29.489	29.979	2.02	-11.74	4.28	45	51.35	51.3
4270	65.8	-1.82	2.69	0.54	32.148	33.647	2.69	-11.21	4.51	45	51.74	51.75
4280	58.33	-2.34	2.19	0.04	28.192	30.138	2.19	-12.32	4.54	45	51.32	51.32
4290	56.1	-2.51	1.94	-0.21	26.793	29.311	1.94	-12.51	4.45	30	51.41	51.41
4300	59.9	-2.23	2.09	-0.06	28.337	31.563	2.09	-11.93	4.32	30	51.19	51.28
4310	62.46	-2.04	2.15	0	29.197	33.262	2.15	-13.14	4.19	30	51.51	51.48
4320	64.44	-1.91	2.26	0.11	29.786	34.65	2.26	-14.7	4.16	30	51.4	51.48
4330	61.91	-2.08	2.11	-0.04	28.299	33.61	2.11	-15.93	4.19	30	51.3	51.35
4340	62	-2.08	2.08	-0.07	28.107	33.898	2.08	-15.96	4.15	30	51.28	51.39
4350	60.13	-2.21	1.91	-0.24	27.112	33.016	1.91	-15.31	4.12	30	51.19	51.22
4360	64.61	-1.9	2.18	0.03	29.056	35.554	2.18	-14.22	4.07	30	51.72	51.81
4370	64.57	-1.9	2.16	0.01	28.995	35.578	2.16	-13.58	4.06	30	51.66	51.74
4380	70.24	-1.53	2.57	0.42	31.424	38.82	2.57	-14.44	4.1	30	52.43	52.43
4390	64.88	-1.88	2.34	0.19	28.901	35.975	2.34	-16.54	4.21	30	51.75	51.93
4400	62.53	-2.04	2.38	0.23	27.688	34.845	2.38	-18.99	4.42	30	51.7	51.7
4410	60.91	-2.15	2.41	0.26	26.777	34.132	2.41	-22.18	4.57	30	51.48	51.61
4420	58.55	-2.32	2.4	0.25	25.589	32.966	2.4	-22.4	4.72	30	51.13	51.2
4430	57.83	-2.38	2.48	0.33	25.143	32.691	2.48	-18.94	4.85	15	51.33	51.38
4440	60.97	-2.15	2.83	0.68	26.475	34.495	2.83	-15.53	4.97	15	51.58	51.63



产品名称	超宽带小型化天线	编制部门	技术中心	版本修订	22-1
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4850	57.96	-2.37	1.46	-0.69	29.391	28.565	1.46	-14.96	3.83	15	51.61	51.66
4860	60.09	-2.21	1.61	-0.54	30.53	29.557	1.61	-15.37	3.82	30	51.68	51.71
4870	60.53	-2.18	1.66	-0.49	30.734	29.791	1.66	-15.91	3.84	30	51.93	51.9
4880	58.7	-2.31	1.53	-0.62	29.795	28.903	1.53	-16.69	3.84	15	51.63	51.74
4890	54.54	-2.63	1.18	-0.97	27.791	26.754	1.18	-18.17	3.81	15	51.67	51.69
4900	59.54	-2.25	1.5	-0.65	30.545	28.992	1.5	-18.82	3.75	15	51.87	51.94
4910	53.03	-2.76	1.07	-1.08	27.417	25.611	1.07	-19.9	3.83	15	51.57	51.69
4920	51.84	-2.85	1.24	-0.91	27.014	24.823	1.24	-19.84	4.1	15	51.64	51.72
4930	57.58	-2.4	1.92	-0.23	30.225	27.36	1.92	-18.53	4.32	15	51.9	52.03
4940	50.05	-3.01	1.52	-0.63	26.441	23.611	1.52	-18.5	4.53	15	51.49	51.67
4950	54.33	-2.65	2.1	-0.05	28.831	25.496	2.1	-17.33	4.75	15	51.87	52.01
4960	52.51	-2.8	2.14	-0.01	27.991	24.517	2.14	-17.02	4.94	15	51.76	51.93
4970	53.02	-2.76	2.33	0.18	28.424	24.596	2.33	-16.86	5.08	15	51.93	52.18
4980	48.58	-3.14	2.04	-0.11	26.203	22.379	2.04	-17.62	5.18	15	51.64	51.87
4990	55.02	-2.59	2.64	0.49	29.806	25.218	2.64	-17.65	5.23	15	52.18	52.41
5000	55.15	-2.58	2.67	0.52	29.994	25.161	2.67	-18.25	5.26	15	52.14	52.37

#### 四、实物图

