

Antenna Specifications

At Wavelink, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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Wavelink Certifications:



Wavelink Partners:

Skyworth **NARI**

flex

 **HUAWEI**

 **VVDN**
TECHNOLOGIES

Tenda **Infinova**

dji

Hikvision

JABIL

Catalogue

1	Product Description	3
2	Product Features	3
3	Product Specifications	3
4	Overall Performance	4
5	Product Size	9
6	Others	10

Wavelink

1 Product Description

This wavelink antenna covers GSM.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

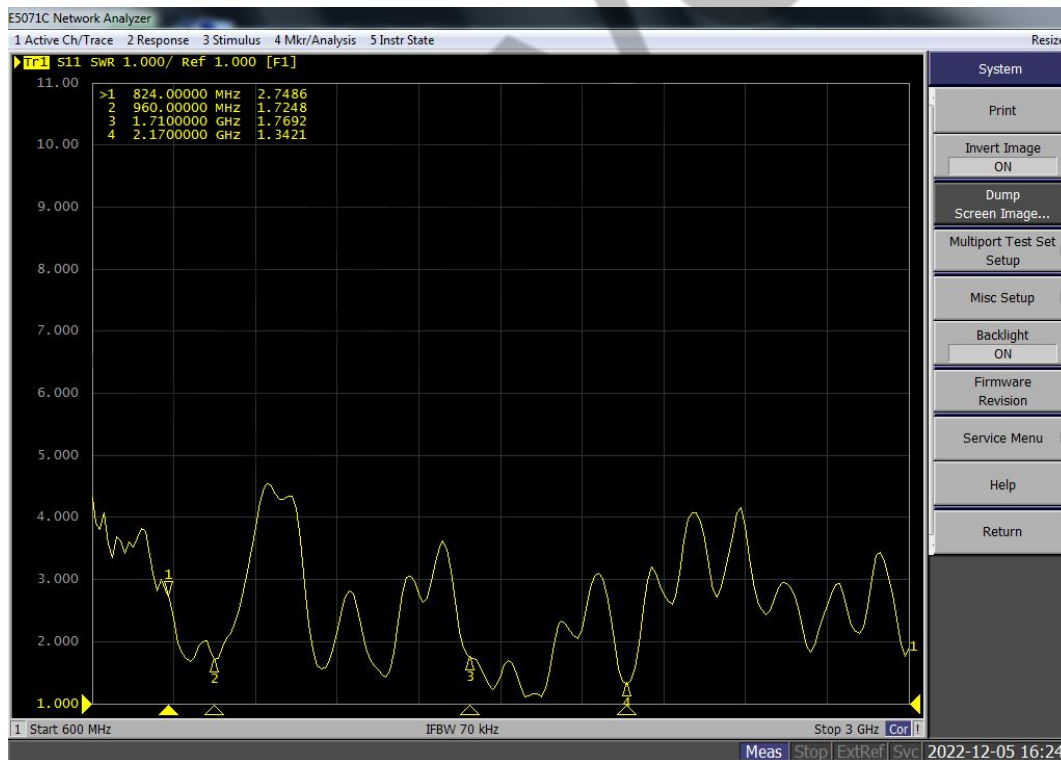
Frequency Range	824-960 MHz 1710-2170MHz
Input Impedance	50 Ω
VSWR	≤ 3
Gain	≤ 3 dBi
Polarization Type	Linear

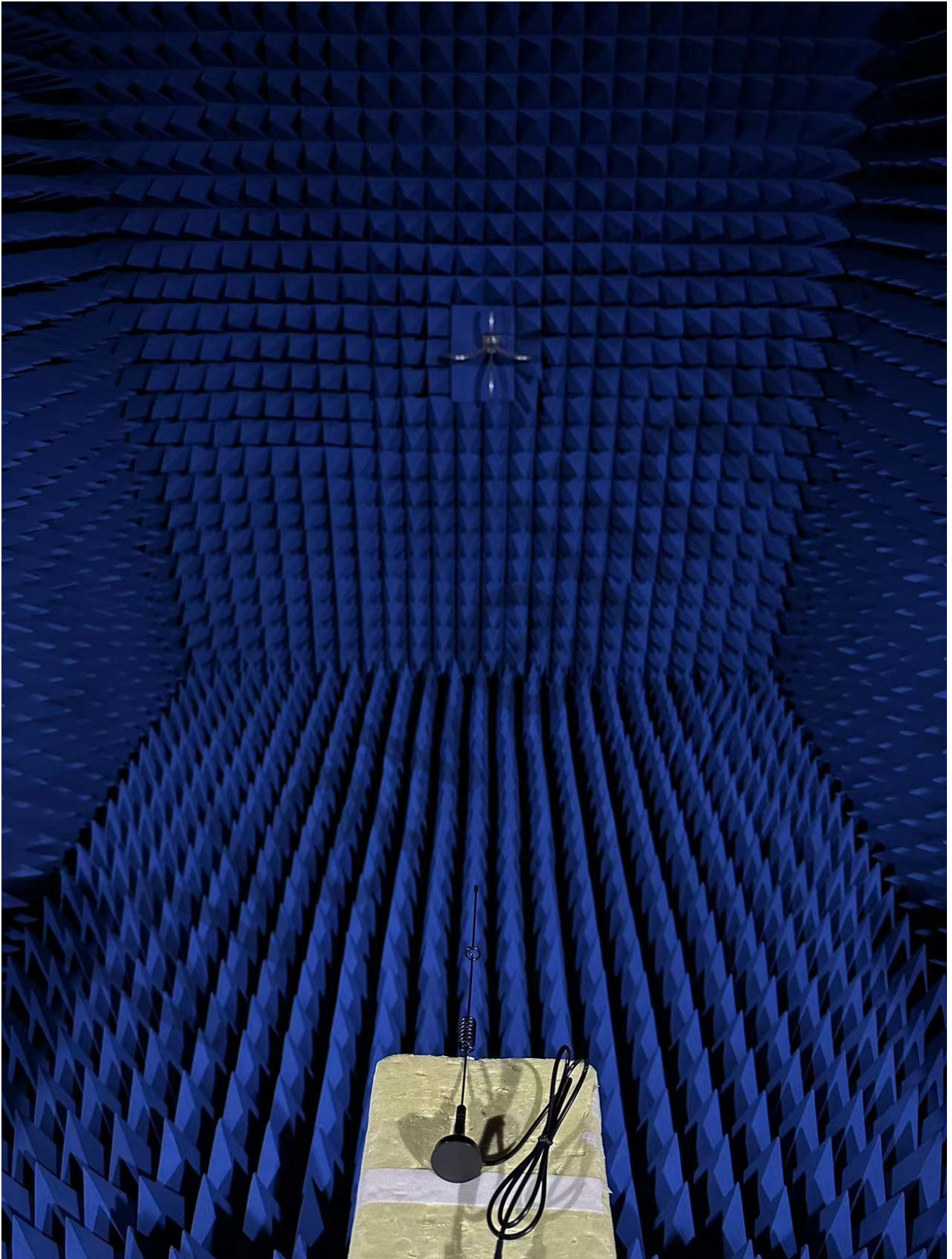
Mechanical Specifications

Antenna Size	310mm $\times$ 29mm
Connector Type	SMA
Working Temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Radome Color	Black

4 Overall Performance

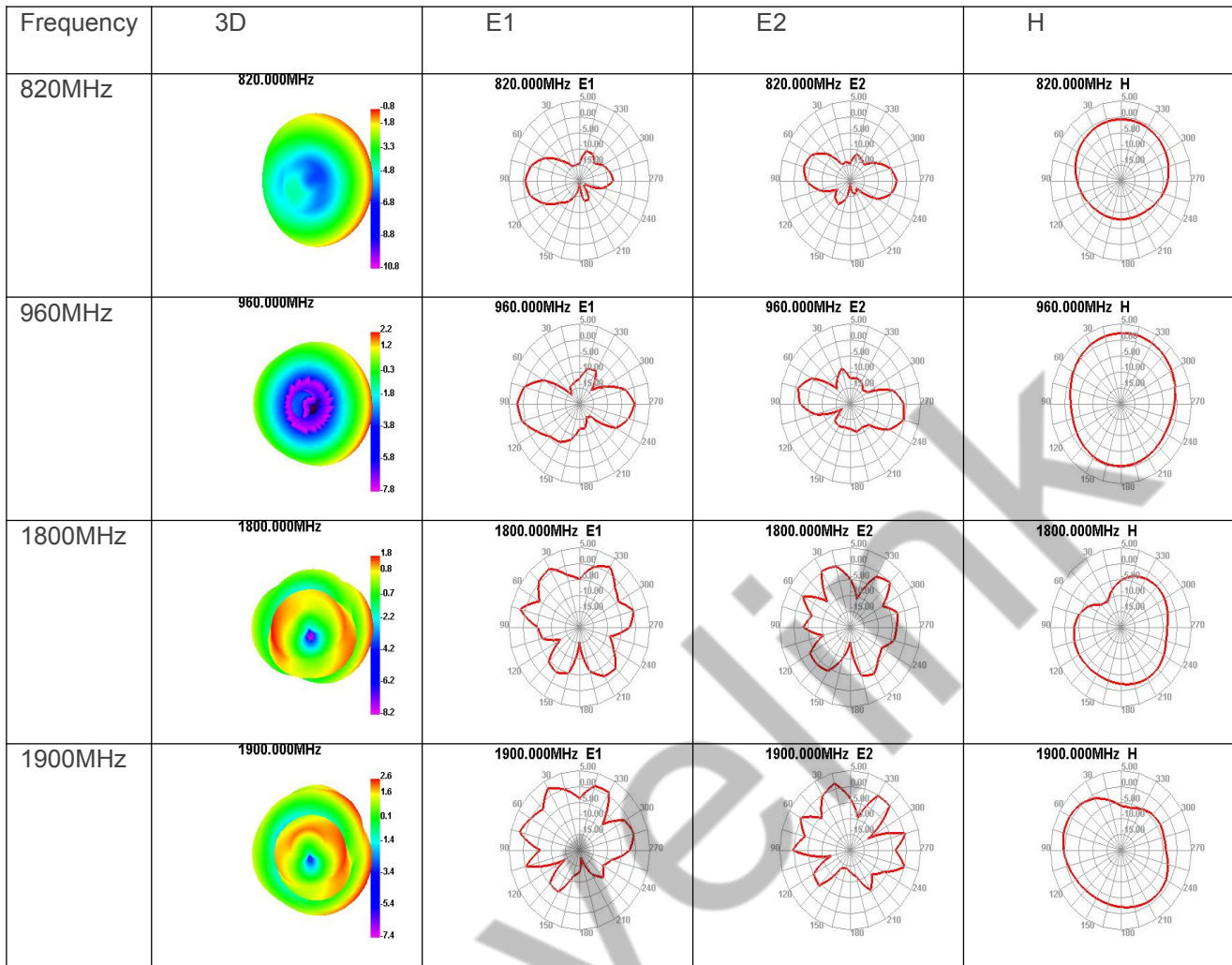
KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz



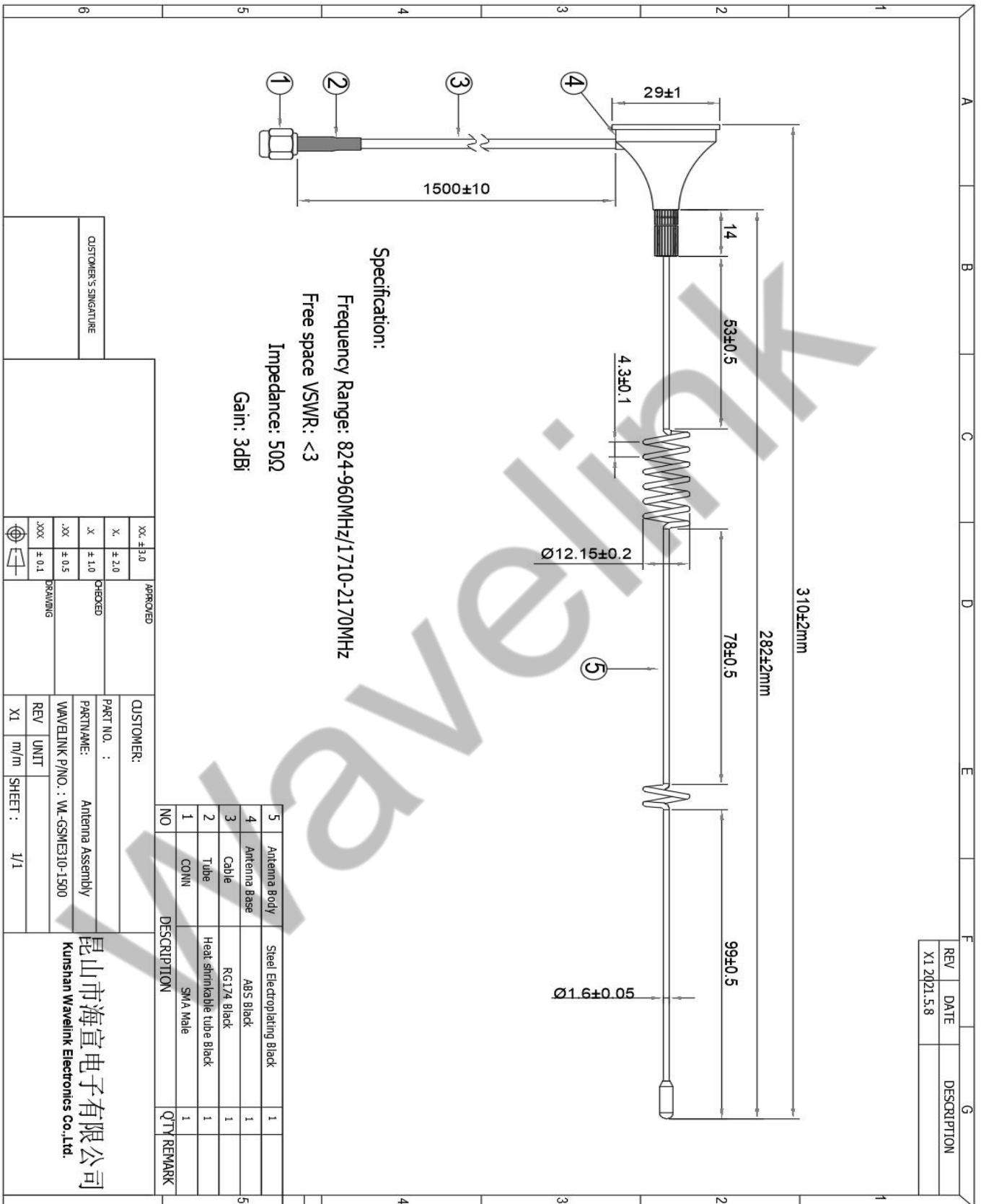


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
820	20.69	-6.84	-0.78	-2.93	-0.78	-26.9	6.07	37.56	37.65
830	24.23	-6.16	-0.04	-2.19	-0.04	-26.2	6.12	38.01	38.02
840	23.37	-6.31	-0.08	-2.23	-0.08	-26.62	6.23	37.66	37.69
850	26.34	-5.79	0.52	-1.63	0.52	-26.92	6.32	37.95	37.95
860	35.26	-4.53	1.74	-0.41	1.74	-24.08	6.26	38.46	38.51
870	36.5	-4.38	1.73	-0.42	1.73	-21.78	6.11	38.56	38.57
880	40.05	-3.97	1.92	-0.23	1.92	-22.48	5.89	39.13	39.13
890	45.86	-3.39	2.35	0.2	2.35	-22.44	5.73	39.4	39.39
900	45.99	-3.37	2.34	0.19	2.34	-23.11	5.71	39.82	39.71
910	49.83	-3.03	2.76	0.61	2.76	-21.38	5.78	40.04	39.93
920	52.3	-2.82	3.11	0.96	3.11	-21.3	5.93	40.17	40.07
930	52.81	-2.77	3.31	1.16	3.31	-23.63	6.08	40.36	40.22
940	50.53	-2.96	3.28	1.13	3.28	-19.86	6.24	40.37	40.21
950	45.36	-3.43	2.82	0.67	2.82	-17.24	6.26	40.51	40.23
960	40.86	-3.89	2.22	0.07	2.22	-17.76	6.11	40.26	39.96
1710	46.63	-3.31	1.07	-1.08	1.07	-16.62	4.38	42.41	42.5
1720	46.17	-3.36	0.91	-1.24	0.91	-18.04	4.26	42.24	42.31
1730	43.72	-3.59	0.66	-1.49	0.66	-21.7	4.26	42.06	42.19
1740	53.48	-2.72	1.64	-0.51	1.64	-23.36	4.36	42.71	42.9
1750	54.07	-2.67	1.86	-0.29	1.86	-19.4	4.53	42.75	42.88
1760	54.16	-2.66	2.02	-0.13	2.02	-16.58	4.68	42.78	42.9
1770	58.69	-2.31	2.47	0.32	2.47	-15.51	4.78	42.99	43.01
1780	57.38	-2.41	2.39	0.24	2.39	-15.13	4.8	42.84	42.92
1790	55.41	-2.56	2.22	0.07	2.22	-14.99	4.78	42.72	42.8
1800	51.81	-2.86	1.83	-0.32	1.83	-15.35	4.69	42.62	42.74
1810	55.62	-2.55	2.13	-0.02	2.13	-14.5	4.68	42.94	43.1
1820	51.45	-2.89	1.99	-0.16	1.99	-14.36	4.88	42.81	42.89
1830	51.6	-2.87	2.2	0.05	2.2	-13.81	5.07	42.95	42.99
1840	57.23	-2.42	2.82	0.67	2.82	-14.23	5.25	43.3	43.22
1850	58.07	-2.36	2.97	0.82	2.97	-15.31	5.33	43.34	43.21
1860	58.93	-2.3	2.98	0.83	2.98	-16.11	5.28	43.55	43.42
1870	58.44	-2.33	2.82	0.67	2.82	-16.28	5.15	43.39	43.24
1880	58.16	-2.35	2.65	0.5	2.65	-17.63	5.01	43.41	43.26
1890	56.43	-2.48	2.49	0.34	2.49	-17.68	4.97	43.39	43.23
1900	57.13	-2.43	2.55	0.4	2.55	-18.09	4.98	43.4	43.23
1910	58.13	-2.36	2.69	0.54	2.69	-20.82	5.05	43.53	43.29
1920	59.43	-2.26	2.76	0.61	2.76	-20.64	5.02	43.68	43.56
1930	59.32	-2.27	2.68	0.53	2.68	-21.2	4.95	43.82	43.66
1940	55.09	-2.59	2.2	0.05	2.2	-21.54	4.79	43.64	43.54
1950	52.68	-2.78	1.94	-0.21	1.94	-17.18	4.73	43.69	43.62
1960	48.41	-3.15	1.51	-0.64	1.51	-18.59	4.66	43.61	43.5

1970	42.34	-3.73	0.88	-1.27	0.88	-25.84	4.62	43.6	43.5
1980	40.61	-3.91	0.6	-1.55	0.6	-21.83	4.52	43.65	43.62
1990	38.38	-4.16	0.56	-1.59	0.56	-17.49	4.71	43.8	43.76
2000	39.49	-4.04	0.82	-1.33	0.82	-14.4	4.86	44.07	44.09
2010	40.85	-3.89	0.99	-1.16	0.99	-13.67	4.88	44.5	44.61
2020	40.85	-3.89	1.05	-1.1	1.05	-15.02	4.94	44.48	44.56
2030	40.3	-3.95	1.13	-1.02	1.13	-16.19	5.08	44.6	44.76
2040	39.03	-4.09	1.1	-1.05	1.1	-15.72	5.19	44.55	44.67
2050	36.98	-4.32	1	-1.15	1	-15.01	5.32	44.46	44.6
2060	33.39	-4.76	0.72	-1.43	0.72	-16.77	5.48	44.56	44.67
2070	32.61	-4.87	0.78	-1.37	0.78	-17.64	5.65	44.55	44.64
2080	30.71	-5.13	0.7	-1.45	0.7	-17.45	5.83	44.51	44.7
2090	29.01	-5.37	0.58	-1.57	0.58	-17.28	5.96	44.47	44.66
2100	29.26	-5.34	0.71	-1.44	0.71	-18.12	6.04	44.59	44.83
2110	33.55	-4.74	1.34	-0.81	1.34	-16.94	6.08	44.8	44.98
2120	36.31	-4.4	1.82	-0.33	1.82	-16.8	6.22	44.86	45.02
2130	38.86	-4.11	2.33	0.18	2.33	-18.6	6.44	44.83	44.9
2140	41.46	-3.82	2.84	0.69	2.84	-20.76	6.66	44.8	44.9
2150	43.02	-3.66	3.18	1.03	3.18	-18.42	6.85	44.91	45
2160	45.59	-3.41	3.51	1.36	3.51	-19.96	6.92	44.83	44.89
2170	47.38	-3.24	3.67	1.52	3.67	-23.9	6.91	45.01	45.18



5 Product Size



6 Others

DESCRIPTION	SPECIFICATION
Temperature /Humidity cycling	1, The device under test is kept for 30 mins in an environment with a temperature of -40 °C. 2, Kept for 4 Hours in an environment with a temperature of 8cthe conditions are stabilized at room temperature. 3, Parts should meet RF spec before and after test. 4, No cosmetic problem(No soldering problem;No adhesion problem of glue).
Temperature Shock	1, The device under test at -40 °C ⇌ 125 °C by 100 cycles, Dwell of 30 mins, transition time between Dwell 30 secs (~ 61 mins / cycle) and each item should be measured after exposing them in normal temperature and humidity for 24 h. 2, Parts should meet RF spec before and after test. 3, No cosmetic problem(No soldering problem; No adhesion problem of glue).
High Temperature	1, Temperature:125°C, time:1008 hours 2, There is no substantial obstruction to air flow across and around the samples, and the samples are not touching each other 3, Parts should meet RF spec before and after test. 4, No cosmetic problem(No soldering problem; No adhesion problem of glue).
Salt mist test	1, The device under test is exposed to a spray of a 5% (by volume) resolution of NACL in water for 2 hours. Thereafter the device under test is left for 1 week in room temperature at a relative humidity of 95%. The cycle is repeated until a total of 2 cycles have been completed. Here after the conditions are stabilized at room temperature. 2, Parts should meet RF spec before and after test. 3, No visible corrosion. Discoloration accept.