

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

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Wavelink

1 Product Description

This wavelink antenna covers 4G LTE bands and is compatible with 3G/2G bands.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	698-960 MHz 1710-2690MHz
Input Impedance	50 Ω

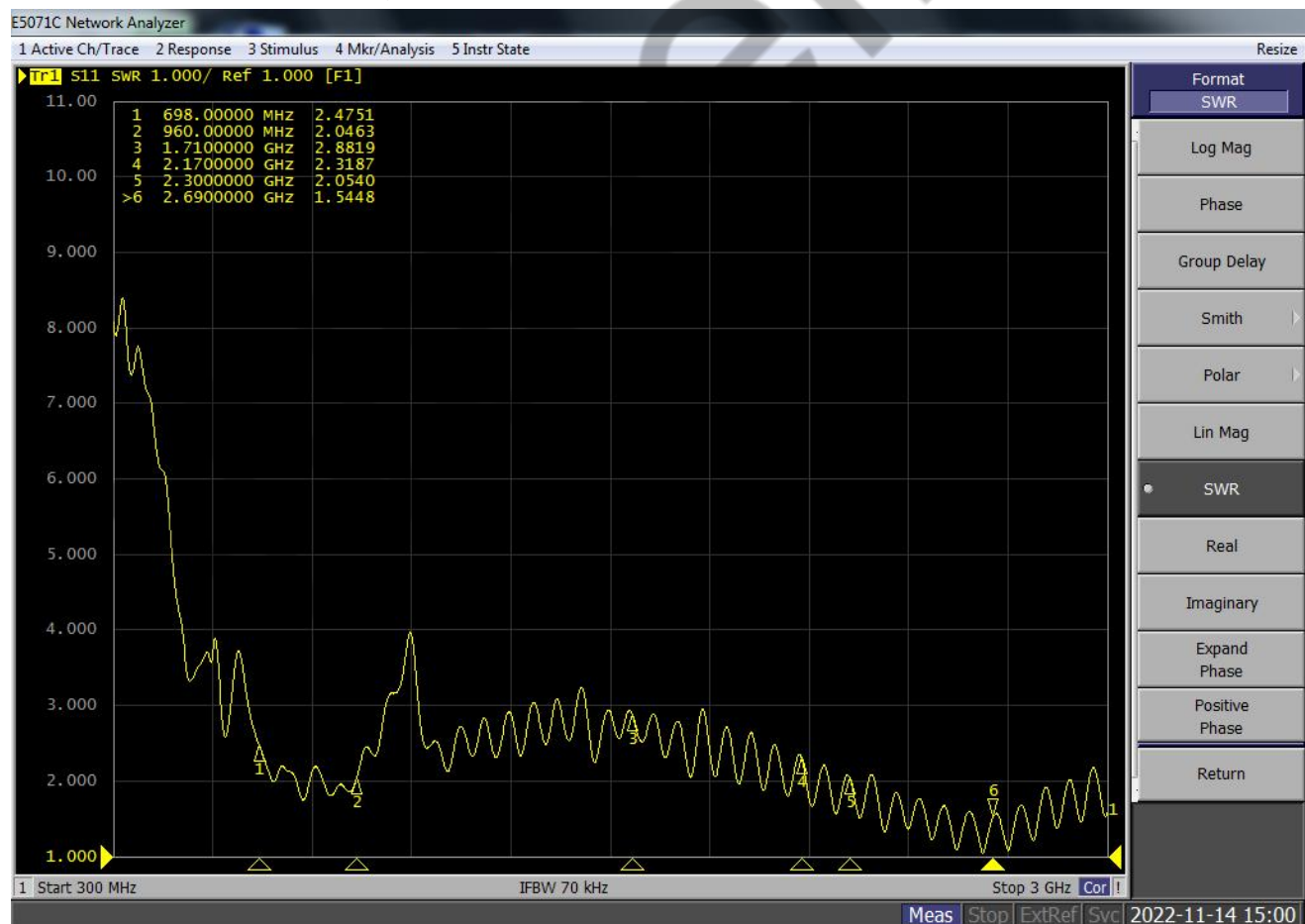
VSWR	≤ 3
Gain	≤ 2 dBi
Polarization Type	Linear

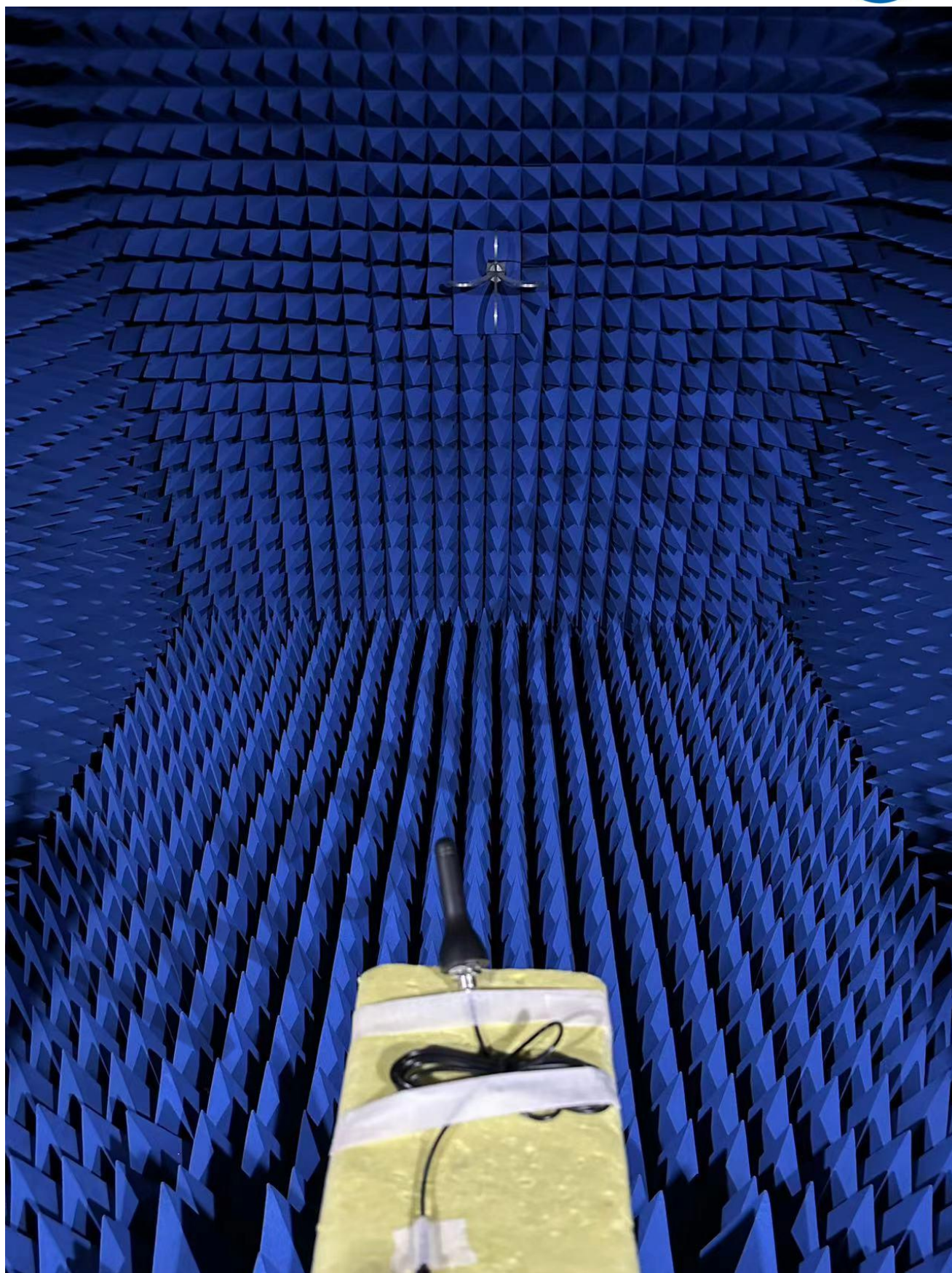
Mechanical Specifications

Antenna Size	80mm × 30mm
Casing	PCB
Connector Type	SMA
Working Temperature	-40 °C to +85 °C
Radome Color	Black

4 Overall Performance

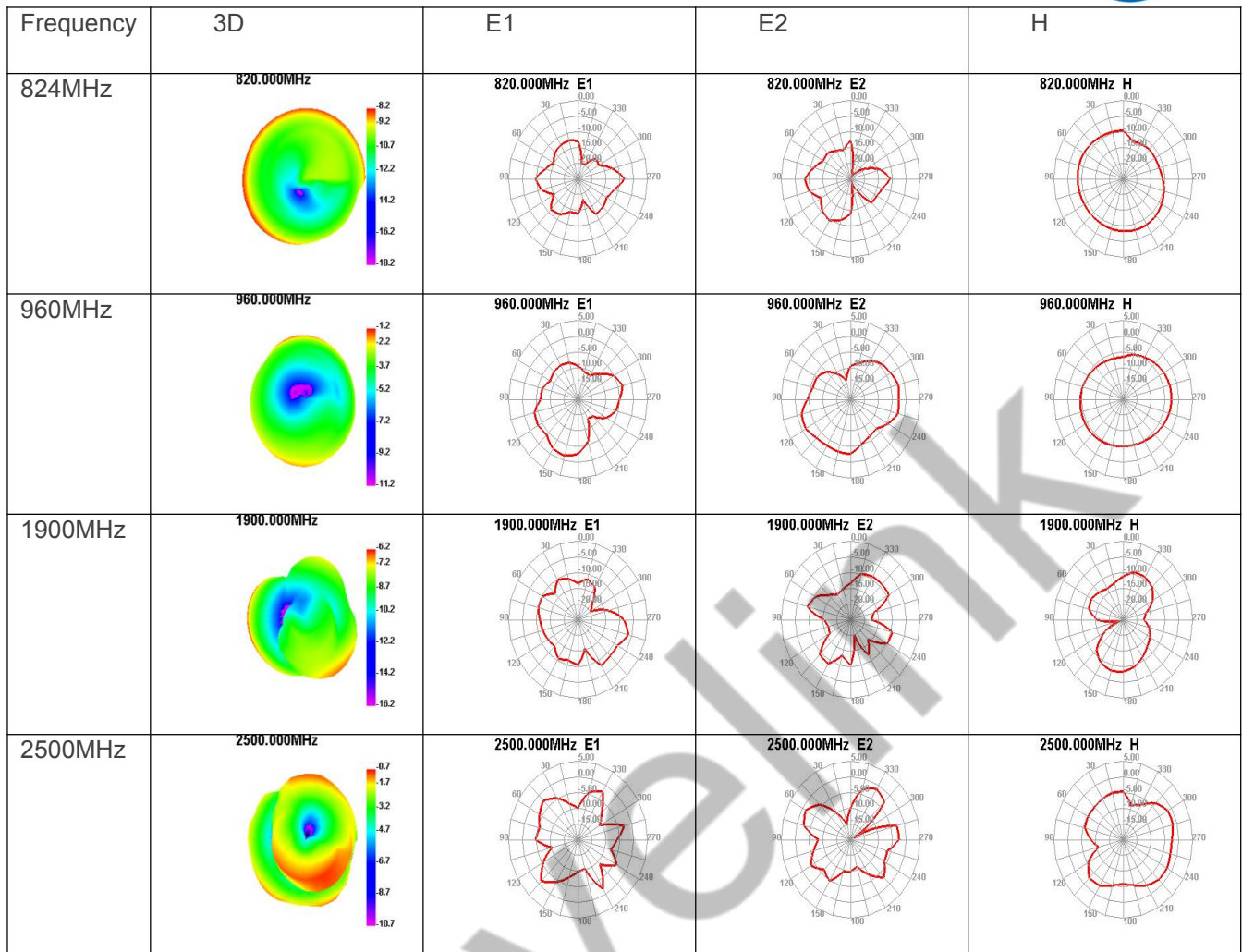
KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz



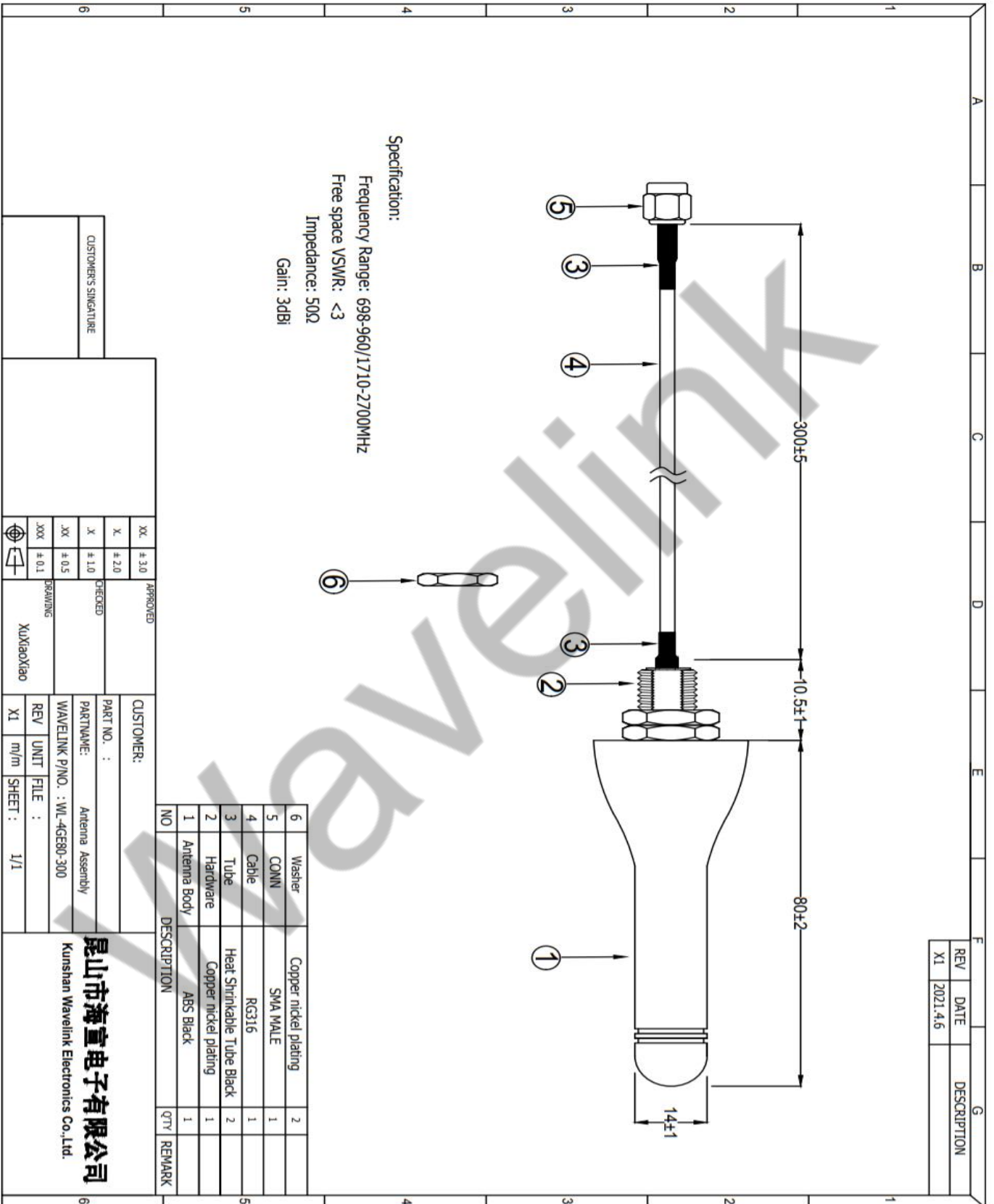


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
690	12.76	-8.94	-4.12	-6.27	-4.12	-22.06	8.94	38.69	38.31
700	12.77	-8.94	-3.84	-5.99	-3.84	-18.25	8.94	39.87	39.55
710	5.85	-12.33	-7.52	-9.67	-7.52	-19.73	12.33	37.59	37.34
720	4.36	-13.61	-9.27	-11.42	-9.27	-24.54	13.61	36.76	36.6
730	2.43	-16.15	-11.87	-14.02	-11.87	-25.07	16.15	36.99	36.86
740	3.63	-14.4	-10.66	-12.81	-10.66	-32.87	14.4	35.67	35.55
750	6.77	-11.7	-7.83	-9.98	-7.83	-31.28	11.7	35.26	35.15
760	9.81	-10.08	-6.09	-8.24	-6.09	-25.4	10.08	35.66	35.54
770	17.42	-7.59	-3.56	-5.71	-3.56	-19.29	7.59	37.25	37.11
780	21.42	-6.69	-2.72	-4.87	-2.72	-16.13	6.69	36.99	36.83
790	15.73	-8.03	-4.1	-6.25	-4.1	-17.53	8.03	35.48	35.31
800	12.28	-9.11	-4.93	-7.08	-4.93	-21.65	9.11	35.56	35.35
810	7.39	-11.31	-6.86	-9.01	-6.86	-28.53	11.31	35.63	35.4
820	5.36	-12.71	-8.17	-10.32	-8.17	-38.26	12.71	37.46	37.2
830	2.94	-15.31	-10.64	-12.79	-10.64	-27.16	15.31	37.8	37.53
840	2.52	-15.98	-11.25	-13.4	-11.25	-27.56	15.98	37.25	36.98
850	4.24	-13.73	-9.61	-11.76	-9.61	-24.99	13.73	36.38	36.12
860	8.05	-10.94	-7.33	-9.48	-7.33	-27.43	10.94	36.59	36.3
870	16.87	-7.73	-4.42	-6.57	-4.42	-25.16	7.73	37.34	36.99
880	33.11	-4.8	-1.37	-3.52	-1.37	-19.59	4.8	38.94	38.54
890	37.01	-4.32	-0.69	-2.84	-0.69	-16.88	4.32	39.19	38.78
900	33.48	-4.75	-1.01	-3.16	-1.01	-17.1	4.75	38.89	38.48
910	29.82	-5.25	-1.63	-3.78	-1.63	-17.08	5.25	38.79	38.38
920	33.05	-4.81	-1.28	-3.43	-1.28	-16.46	4.81	39.52	39.09
930	41.15	-3.86	-0.41	-2.56	-0.41	-16.65	3.86	40.86	40.33
940	47.7	-3.21	0.29	-1.86	0.29	-16.86	3.21	41.74	41.06
950	44.2	-3.55	0.03	-2.12	0.03	-17.64	3.55	41.57	40.8
960	33.01	-4.81	-1.17	-3.32	-1.17	-18.21	4.81	40.58	39.82
1700	7.66	-11.16	-7.45	-9.6	-7.45	-24.25	11.16	41.47	41.39
1720	9.39	-10.27	-6.23	-8.38	-6.23	-25.08	10.27	42.63	42.45
1740	9.03	-10.44	-6.55	-8.7	-6.55	-26.2	10.44	42.37	42.16
1760	8.31	-10.81	-7.06	-9.21	-7.06	-25.25	10.81	42.68	42.45
1780	6.84	-11.65	-8.02	-10.17	-8.02	-24.54	11.65	42.31	42.07
1800	7.56	-11.22	-7.31	-9.46	-7.31	-25.38	11.22	42.54	42.15
1820	7.85	-11.05	-6.68	-8.83	-6.68	-28.12	11.05	42.37	42
1840	7.97	-10.99	-6.65	-8.8	-6.65	-26.34	10.99	43.03	42.69
1860	10.03	-9.98	-5.12	-7.27	-5.12	-24.23	9.98	43.28	42.98
1880	9.3	-10.32	-5.37	-7.52	-5.37	-25.37	10.32	43.21	42.94
1900	8.05	-10.94	-6.24	-8.39	-6.24	-25.48	10.94	43.49	43.26
1920	8.76	-10.58	-4.62	-6.77	-4.62	-25.72	10.58	43.43	43.21
1940	9.65	-10.16	-3.33	-5.48	-3.33	-20.02	10.16	43.52	43.31

1960	7.76	-11.1	-4.36	-6.51	-4.36	-20.71	11.1	44.2	43.95
1980	7.19	-11.44	-5.09	-7.24	-5.09	-23.16	11.44	43.74	43.52
2000	9.03	-10.45	-4.43	-6.58	-4.43	-23.67	10.45	44.38	44.23
2020	8.06	-10.94	-5.26	-7.41	-5.26	-24.99	10.94	44.51	44.43
2040	8.1	-10.91	-5.87	-8.02	-5.87	-28.49	10.91	44.5	44.45
2060	7.29	-11.37	-6.8	-8.95	-6.8	-24.71	11.37	43.85	43.79
2080	6.53	-11.85	-6.55	-8.7	-6.55	-27.5	11.85	44.13	43.97
2100	5.36	-12.71	-7.48	-9.63	-7.48	-24.93	12.71	44.42	44.22
2120	6.28	-12.02	-7.65	-9.8	-7.65	-21.43	12.02	45.21	45.07
2140	8.1	-10.91	-6.49	-8.64	-6.49	-21.95	10.91	45.17	45.02
2160	8.72	-10.59	-5	-7.15	-5	-25.02	10.59	45.42	45.31
2180	10.53	-9.77	-3.72	-5.87	-3.72	-22.62	9.77	45.89	45.87
2200	9.05	-10.43	-5.09	-7.24	-5.09	-26.87	10.43	45.54	45.46
2220	7.53	-11.23	-6.33	-8.48	-6.33	-23.33	11.23	45.89	45.83
2240	6.29	-12.01	-7.65	-9.8	-7.65	-30.69	12.01	45.58	45.54
2260	9.81	-10.08	-5.25	-7.4	-5.25	-32.78	10.08	45.88	45.83
2280	8.44	-10.74	-5.84	-7.99	-5.84	-31.99	10.74	46.04	46.03
2300	9.42	-10.26	-5.05	-7.2	-5.05	-32.22	10.26	45.55	45.57
2320	14.87	-8.28	-3.01	-5.16	-3.01	-29.2	8.28	45.99	45.93
2340	14.61	-8.35	-2.98	-5.13	-2.98	-26.51	8.35	45.77	45.68
2360	16.21	-7.9	-2.42	-4.57	-2.42	-22.87	7.9	45.81	45.75
2380	22.49	-6.48	-1.35	-3.5	-1.35	-18.64	6.48	45.6	45.48
2400	23.3	-6.33	-1.05	-3.2	-1.05	-19.09	6.33	45.87	45.75
2420	26.41	-5.78	-0.54	-2.69	-0.54	-19.67	5.78	46.26	46.25
2440	31.67	-4.99	-0.43	-2.58	-0.43	-17.63	4.99	46.84	46.78
2460	31.7	-4.99	-0.38	-2.53	-0.38	-24.31	4.99	46.97	46.88
2480	34.2	-4.66	-0.37	-2.52	-0.37	-24.52	4.66	47.4	47.28
2500	35.66	-4.48	-0.68	-2.83	-0.68	-23.15	4.48	47.31	47.13
2520	41.65	-3.8	0.49	-1.66	0.49	-18.52	3.8	47.54	47.41
2540	48.92	-3.11	1.48	-0.67	1.48	-14.52	3.11	48.18	48.16
2560	44.7	-3.5	1.28	-0.87	1.28	-15.06	3.5	47.86	47.8
2580	53.63	-2.71	2	-0.15	2	-13.4	2.71	48.72	48.57
2600	48.27	-3.16	1.47	-0.68	1.47	-14.41	3.16	48.52	48.43
2620	39.63	-4.02	0.55	-1.6	0.55	-14.61	4.02	47.88	47.79
2640	34.64	-4.6	-0.06	-2.21	-0.06	-19.74	4.6	47.74	47.6
2660	38.47	-4.15	0.43	-1.72	0.43	-22.87	4.15	47.86	47.74
2680	34.64	-4.6	0.16	-1.99	0.16	-18.16	4.6	47.95	47.84
2700	35.83	-4.46	0.23	-1.92	0.23	-19.15	4.46	48.31	48.19



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.