

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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flex

 **HUAWEI**

 **VVDN**
TECHNOLOGIES

Tenda **Infinova**

dji

Hikvision

JABIL



Catalogue

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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

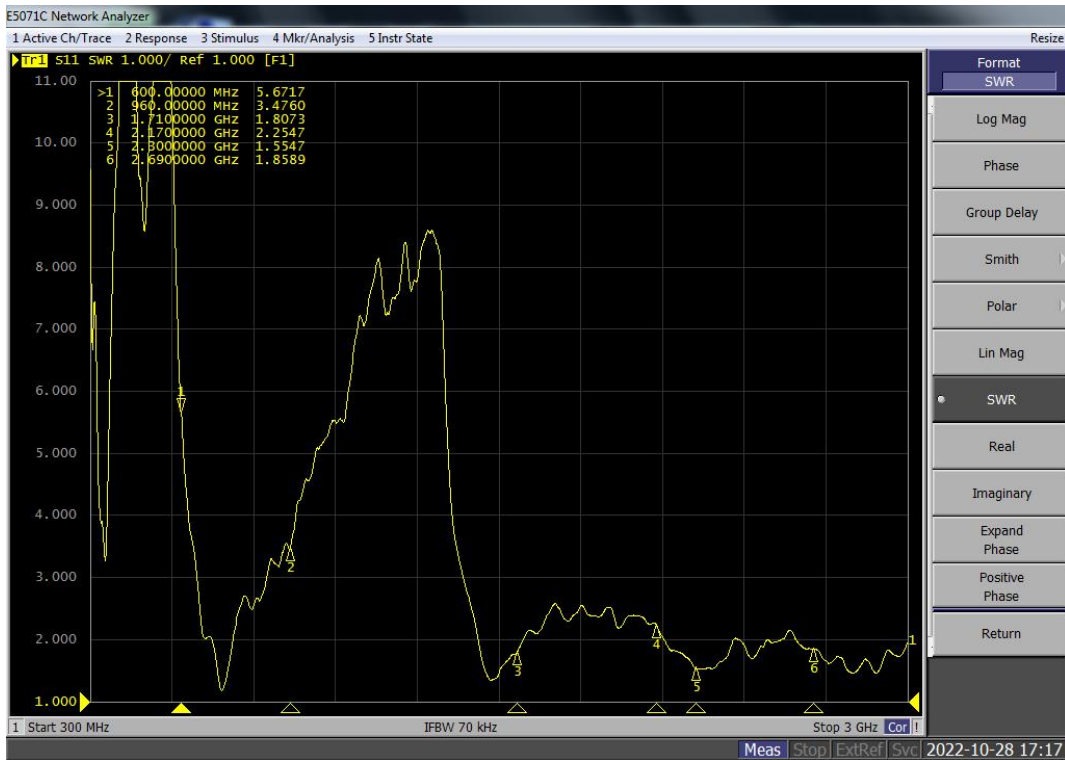
Frequency Range	600-960 MHz 1710-2700MHz
Input Impedance	50 Ω
VSWR	≤ 3
Gain	≤ 3 dBi
Polarization Type	Linear

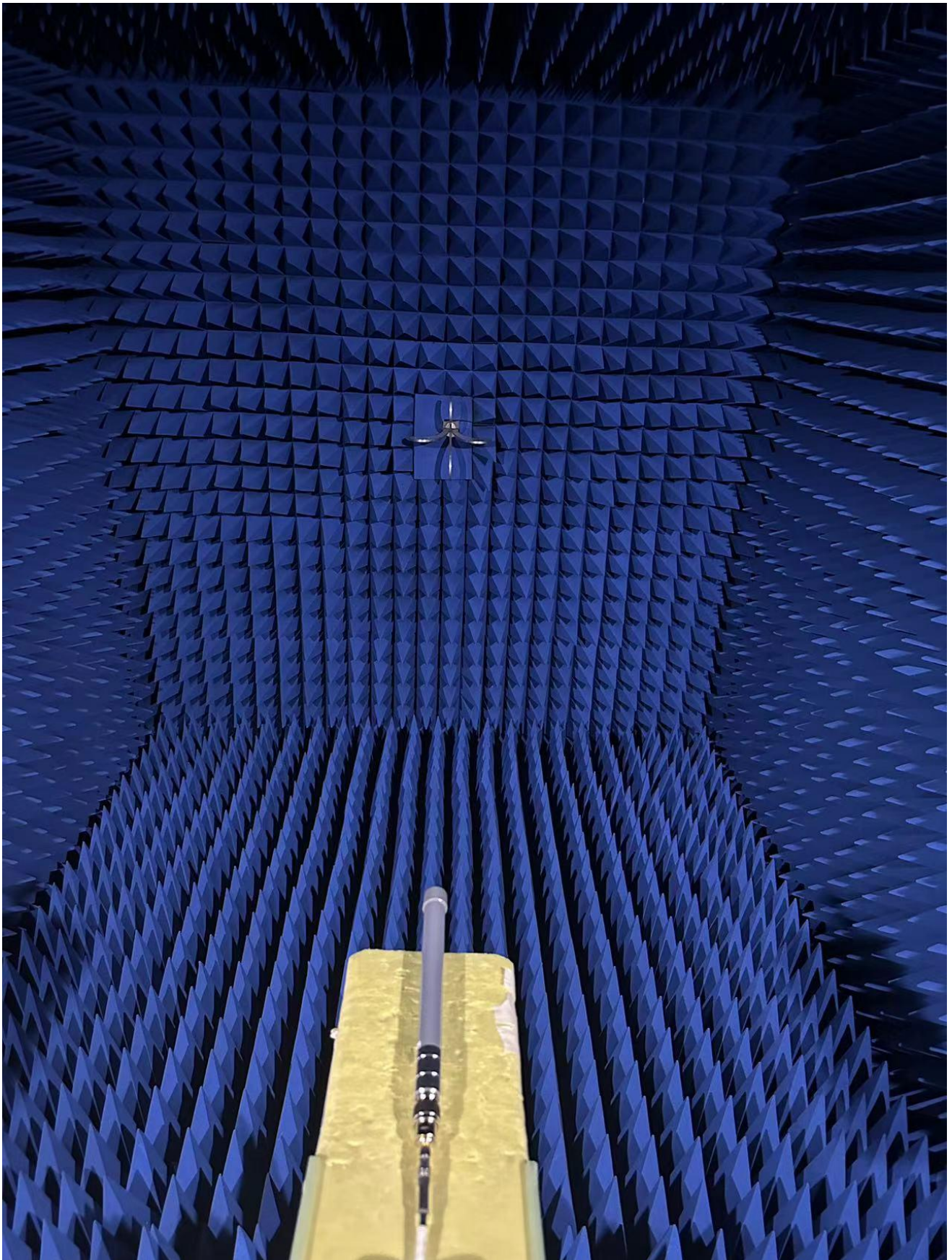
Mechanical Specifications

Antenna Size	210 mm $\times$ 23.5 mm
Casing	PCB
Connector Type	TNC-J
Working Temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Radome Color	Grey

4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz





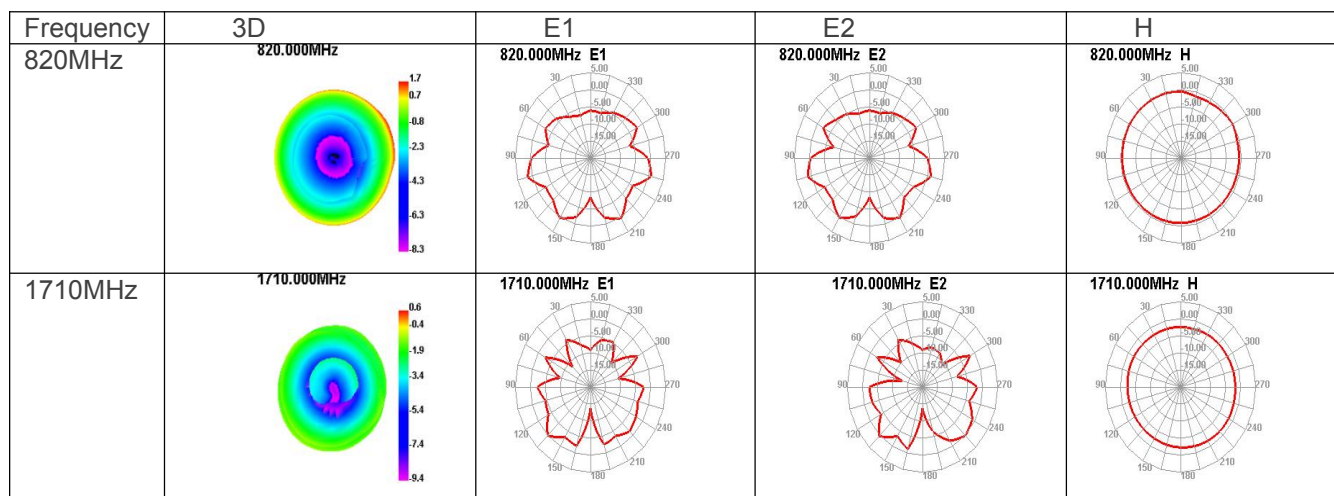


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
600	10.73	-9.69	-5.88	-8.03	-5.88	-17.71	9.69	30	39.55	38.39
605	11.74	-9.3	-5.14	-7.29	-5.14	-18.18	9.3	30	39.73	38.51
610	13.37	-8.74	-4.33	-6.48	-4.33	-17.4	8.74	30	39.76	38.54
615	14.42	-8.41	-3.86	-6.01	-3.86	-17.92	8.41	30	39.71	38.54
620	15.19	-8.19	-3.6	-5.75	-3.6	-19.47	8.19	30	39.83	38.69
625	15.1	-8.21	-3.73	-5.88	-3.73	-21.71	8.21	30	39.71	38.6
630	16.72	-7.77	-3.48	-5.63	-3.48	-24.17	7.77	30	39.73	38.67
635	20.3	-6.92	-2.96	-5.11	-2.96	-26.7	6.92	30	40.23	39.19
640	20.33	-6.92	-3	-5.15	-3	-28.62	6.92	45	40.36	39.36
645	19.15	-7.18	-3.4	-5.55	-3.4	-27.86	7.18	45	39.97	39.02
650	21.8	-6.62	-3.14	-5.29	-3.14	-25.82	6.62	45	39.92	39.01
655	26.72	-5.73	-2.62	-4.77	-2.62	-24.44	5.73	75	40.07	39.25
660	32.31	-4.91	-2.19	-4.34	-2.19	-24.13	4.91	75	40.05	39.36
665	38.68	-4.13	-1.48	-3.63	-1.48	-24.64	4.13	75	40.09	39.46
670	42.68	-3.7	-0.74	-2.89	-0.74	-26	3.7	15	40.02	39.45
675	41.89	-3.78	-1.16	-3.31	-1.16	-27.57	3.78	30	39.67	39.17
680	45.94	-3.38	-1.09	-3.24	-1.09	-25.17	3.38	30	39.45	38.97
685	41.08	-3.92	-0.3	-2.45	-0.3	-22.52	2.92	30	39.19	38.74
690	49.18	-3.28	-0.92	-1.23	0.92	-21.01	2.28	0	38.96	38.58
695	48.41	-3.65	-1.75	-0.4	1.75	-18.47	1.65	15	38.89	38.52
700	46.45	-3.78	-1.82	-0.33	1.82	-16.66	1.78	15	38.67	38.35
705	45.77	-3.82	-1.83	-0.32	1.83	-15.06	1.82	15	38.54	38.27
710	48.85	-3.62	-1.99	-0.16	1.99	-13.58	1.62	15	38.56	38.31
715	45.22	-3.86	-1.65	-0.5	1.65	-13.03	1.86	15	38.26	38.06
720	45.5	-3.84	-1.45	-0.7	1.45	-12.68	1.84	15	37.98	37.82
725	49.72	-3.57	-1.83	-0.32	1.83	-12.31	1.57	15	37.94	37.8
730	49.62	-3.57	-1.96	-0.19	1.96	-12.36	1.57	15	37.83	37.7
735	40.18	-3.36	-2.26	0.11	2.26	-12.22	1.36	30	37.71	37.6
740	40.32	-3.95	-2.69	0.54	2.69	-12.25	0.95	15	37.76	37.64
745	40.58	-3.78	-2.87	0.72	2.87	-12.65	0.78	15	37.82	37.7
750	35.9	-3.66	-3.01	0.86	3.01	-12.97	0.66	15	37.77	37.66
755	41.46	-3.39	-3.29	1.14	3.29	-12.78	0.39	15	37.88	37.75
760	43.07	-3.31	-3.39	1.24	3.39	-12.17	0.31	15	37.93	37.81
765	44.08	-3.75	-2.98	0.83	2.98	-11.85	0.75	15	37.5	37.38
770	41.77	-3.09	-2.65	0.5	2.65	-11.58	1.09	15	37.24	37.1
775	44.46	-3.28	-2.49	0.34	2.49	-11.1	1.28	15	37.24	37.12
780	41.81	-3.44	-2.32	0.17	2.32	-10.79	1.44	15	37.19	37.03
785	45.37	-3.23	-2.42	0.27	2.42	-9.98	1.23	15	37.49	37.33
790	45.14	-3.24	-2.29	0.14	2.29	-9.31	1.24	15	37.73	37.56
795	41.05	-3.48	-1.99	-0.16	1.99	-8.93	1.48	15	37.69	37.51

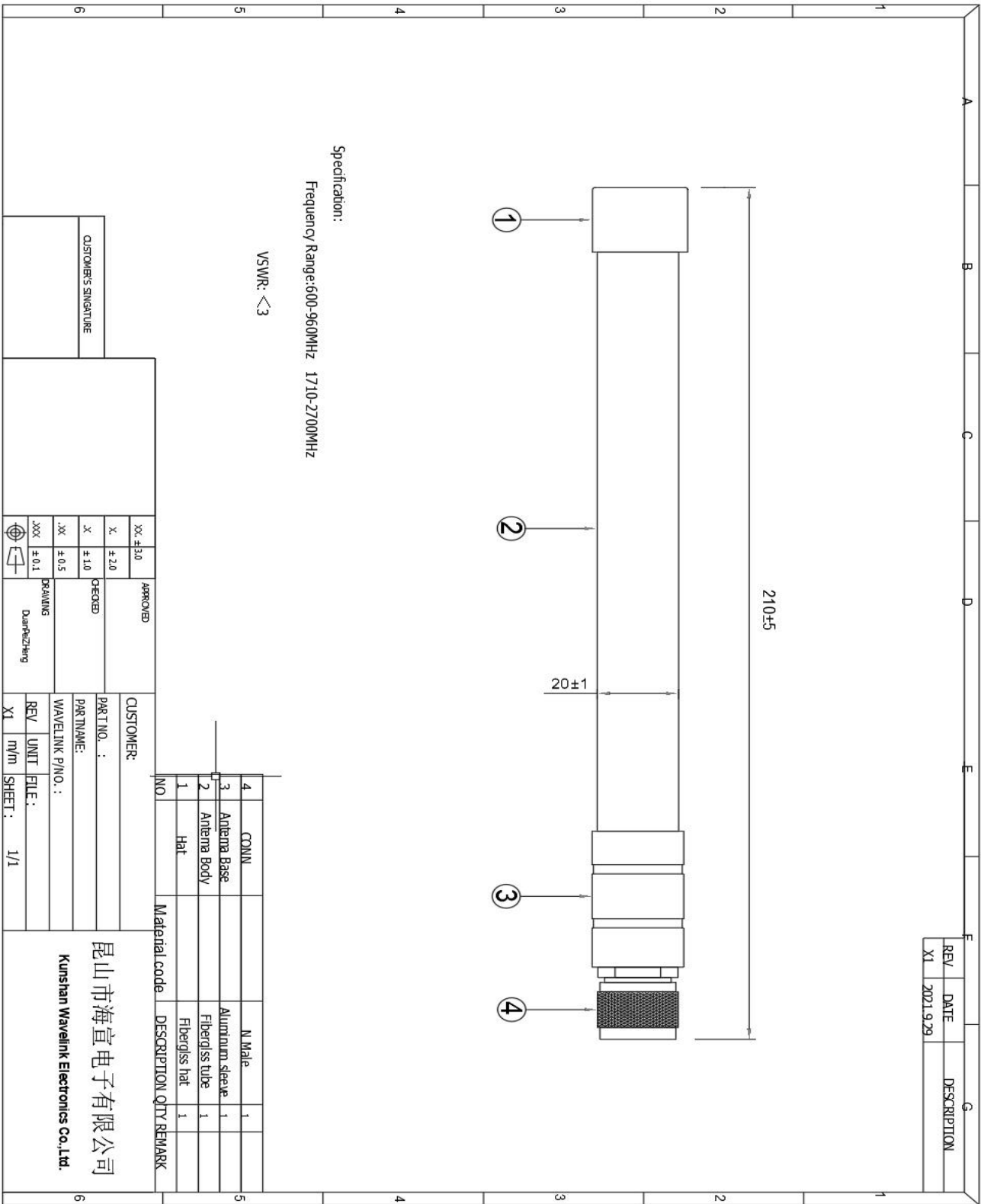
800	42.31	-3.41	-2.18	0.03	2.18	-8.39	1.41	15	37.94	37.73
820	62.26	-2.06	1.73	-0.42	1.73	-8.48	2.06	15	38.16	37.9
830	66.1	-1.8	1.94	-0.21	1.94	-8.83	1.8	15	38.49	38.22
840	61.06	-2.14	1.53	-0.62	1.53	-10.69	2.14	0	38.52	38.25
850	65.23	-1.86	1.67	-0.48	1.67	-12.07	1.86	0	38.8	38.54
860	66.99	-1.74	1.63	-0.52	1.63	-12.92	1.74	15	39.07	38.78
870	62.05	-2.07	1.15	-1	1.15	-12.49	2.07	15	39.12	38.77
880	56.02	-2.52	0.65	-1.5	0.65	-12.02	2.52	15	39.36	38.96
890	56.14	-2.51	0.52	-1.63	0.52	-12.07	2.51	45	39.65	39.24
900	51.79	-2.86	0	-2.15	0	-13.67	2.86	45	39.83	39.42
910	48.42	-3.15	-0.6	-2.75	-0.6	-16.16	3.15	45	40.07	39.66
920	49.05	-3.09	-0.86	-3.01	-0.86	-18.29	3.09	45	40.27	39.84
930	40.85	-3.89	-1.69	-3.84	-1.69	-18.9	3.89	15	40.25	39.72
940	40.84	-3.89	-1.61	-3.76	-1.61	-16.7	3.89	45	40.32	39.64
950	42.25	-3.74	-1.32	-3.47	-1.32	-14.84	3.74	45	40.43	39.66
960	41.24	-3.85	-1.16	-3.31	-1.16	-14.2	3.85	45	40.19	39.43
1710	45.58	-3.41	0.65	-1.5	0.65	-13.88	3.41	0	42.93	42.83
1720	41.58	-3.81	0.17	-1.98	0.17	-13.85	3.81	0	42.39	42.21
1730	44.93	-3.47	0.48	-1.67	0.48	-13.12	3.47	30	42.54	42.32
1740	49.25	-3.08	0.9	-1.25	0.9	-12.34	3.08	45	43.04	42.83
1750	55.57	-2.55	1.3	-0.85	1.3	-11.7	2.55	45	43.34	43.13
1760	57.88	-2.37	1.46	-0.69	1.46	-11.99	2.37	45	43.47	43.24
1770	57.77	-2.38	1.61	-0.54	1.61	-14.58	2.38	45	43.46	43.23
1780	58.73	-2.31	1.8	-0.35	1.8	-17.5	2.31	30	43.43	43.19
1790	58.22	-2.35	1.84	-0.31	1.84	-20.03	2.35	30	43.24	42.93
1800	59	-2.29	2	-0.15	2	-21.77	2.29	30	43.22	42.83
1810	62.35	-2.05	2.47	0.32	2.47	-23.23	2.05	30	43.51	43.1
1820	63.38	-1.98	2.81	0.66	2.81	-23.35	1.98	0	43.48	43.11
1830	61.5	-2.11	2.98	0.83	2.98	-23.07	2.11	0	43.51	43.14
1840	62.97	-2.01	3.23	1.08	3.23	-22.37	2.01	0	43.51	43.17
1850	64.32	-1.92	3.29	1.14	3.29	-20.75	1.92	0	43.63	43.35
1860	63.92	-1.94	3.13	0.98	3.13	-21.97	1.94	0	43.69	43.39
1870	64.76	-1.89	2.96	0.81	2.96	-29.08	1.89	0	43.56	43.27
1880	66.08	-1.8	2.83	0.68	2.83	-26	1.8	0	43.65	43.38
1890	67.5	-1.71	2.77	0.62	2.77	-21.44	1.71	0	43.67	43.34
1900	63.71	-1.96	2.4	0.25	2.4	-20.59	1.96	0	43.64	43.41
1910	64.24	-1.92	2.37	0.22	2.37	-19.82	1.92	0	43.69	43.44
1920	60.12	-2.21	2.01	-0.14	2.01	-16.03	2.21	0	43.79	43.57
1930	57.88	-2.37	1.72	-0.43	1.72	-14.12	2.37	0	43.89	43.65
1940	61.03	-2.14	1.77	-0.38	1.77	-14.75	2.14	0	43.87	43.66
1950	56.47	-2.48	1.24	-0.91	1.24	-15.67	2.48	15	43.95	43.7
1960	55.25	-2.58	0.95	-1.2	0.95	-15.9	2.58	15	43.94	43.69

1970	58.44	-2.33	1.05	-1.1	1.05	-15.52	2.33	15	44.09	43.96
1980	53.51	-2.72	0.58	-1.57	0.58	-15.39	2.72	15	44.17	43.95
1990	56.1	-2.51	0.79	-1.36	0.79	-15.04	2.51	15	44.2	44.06
2000	56.31	-2.49	0.86	-1.29	0.86	-14.97	2.49	15	44.57	44.42
2010	52.61	-2.79	0.64	-1.51	0.64	-15.46	2.79	15	44.69	44.52
2020	53.91	-2.68	0.83	-1.32	0.83	-16.13	2.68	15	44.86	44.78
2030	56.08	-2.51	1.04	-1.11	1.04	-16.58	2.51	15	45.04	44.98
2040	56.94	-2.45	1.19	-0.96	1.19	-16.47	2.45	15	45.12	45.07
2050	55.92	-2.52	1.37	-0.78	1.37	-15.78	2.52	15	45.01	44.95
2060	60.51	-2.18	1.95	-0.2	1.95	-14.31	2.18	15	45.26	45.2
2070	55.63	-2.55	1.82	-0.33	1.82	-13.86	2.55	15	45.22	45.06
2080	56.83	-2.45	2.15	0	2.15	-14.02	2.45	15	45.28	45.12
2090	58.76	-2.31	2.52	0.37	2.52	-16.52	2.31	15	45.5	45.36
2100	63.45	-1.98	2.95	0.8	2.95	-18.03	1.98	15	45.71	45.51
2110	48.49	-3.14	1.56	-0.59	1.56	-22.92	3.14	15	44.31	44.12
2120	46.78	-3.3	1.08	-1.07	1.08	-25.95	3.3	15	44.53	44.39
2130	46.6	-3.32	1.44	-0.71	1.44	-21.88	3.32	15	44.47	44.28
2140	43.89	-3.58	1.34	-0.81	1.34	-21.35	3.58	15	44.41	44.26
2150	44.18	-3.55	1.15	-1	1.15	-20.77	3.55	15	44.38	44.31
2160	42.9	-3.68	0.79	-1.36	0.79	-19.52	3.68	45	44.5	44.39
2170	41.74	-3.79	0.14	-2.01	0.14	-18.75	3.79	45	44.74	44.7
2180	45.83	-3.39	0.19	-1.96	0.19	-18.05	3.39	15	44.71	44.69
2190	45.81	-3.39	0.21	-1.94	0.21	-18.05	3.39	30	45	44.95
2200	50.45	-2.97	0.57	-1.58	0.57	-17.81	2.97	45	45.09	45.01
2210	52.35	-2.81	0.6	-1.55	0.6	-18.27	2.81	45	45.12	45.08
2220	56.84	-2.45	0.74	-1.41	0.74	-18.5	2.45	45	45.26	45.2
2230	57.17	-2.43	0.81	-1.34	0.81	-19.22	2.43	45	45.26	45.17
2240	57.69	-2.39	0.98	-1.17	0.98	-19.73	2.39	45	45.48	45.44
2250	61.91	-2.08	1.37	-0.78	1.37	-20.37	2.08	45	45.26	45.18
2260	57.86	-2.38	1.12	-1.03	1.12	-21.97	2.38	45	45.38	45.33
2270	60.42	-2.19	1.34	-0.81	1.34	-23.41	2.19	30	45.65	45.67
2280	59.25	-2.27	1.31	-0.84	1.31	-24.22	2.27	30	45.53	45.52
2290	57.58	-2.4	1.14	-1.01	1.14	-23.55	2.4	30	45.9	45.86
2300	61.64	-2.1	1.36	-0.79	1.36	-21.03	2.1	30	45.79	45.81
2310	63.15	-2	1.53	-0.62	1.53	-19.13	2	30	45.95	45.82
2320	65.51	-1.84	1.84	-0.31	1.84	-17.77	1.84	30	45.96	45.9
2330	68.78	-1.63	2.14	-0.01	2.14	-16.82	1.63	30	46.17	46.12
2340	69.58	-1.58	2.25	0.1	2.25	-15.56	1.58	30	46.36	46.27
2350	67.66	-1.7	2.12	-0.03	2.12	-14.33	1.7	30	46.31	46.27
2360	66.24	-1.79	1.95	-0.2	1.95	-15.03	1.79	30	46.38	46.32
2370	64.91	-1.88	1.83	-0.32	1.83	-16.09	1.88	30	46.32	46.3
2380	64.49	-1.91	1.7	-0.45	1.7	-16.44	1.91	30	46.45	46.33

2390	64.44	-1.91	1.67	-0.48	1.67	-17.35	1.91	15	46.66	46.66
2400	66.77	-1.75	1.81	-0.34	1.81	-17.2	1.75	30	46.78	46.66
2410	65.03	-1.87	1.76	-0.39	1.76	-16.36	1.87	30	46.54	46.47
2420	63.48	-1.97	1.76	-0.39	1.76	-15.46	1.97	30	46.78	46.77
2430	62.98	-2.01	1.68	-0.47	1.68	-14.81	2.01	30	46.65	46.52
2440	60.86	-2.16	1.4	-0.75	1.4	-14.73	2.16	30	46.79	46.73
2450	60.88	-2.16	1.2	-0.95	1.2	-14.99	2.16	30	46.92	46.83
2460	60.06	-2.21	1.02	-1.13	1.02	-15.63	2.21	30	47.02	46.93
2470	59.07	-2.29	1.03	-1.12	1.03	-15.98	2.29	30	46.82	46.7
2480	60.57	-2.18	1.25	-0.9	1.25	-15.62	2.18	30	47.15	47.03
2490	64.95	-1.87	1.64	-0.51	1.64	-14.66	1.87	30	47.25	47.04
2500	61.12	-2.14	1.43	-0.72	1.43	-14.46	2.14	30	47.08	46.9
2510	56.32	-2.49	1.13	-1.02	1.13	-14.86	2.49	45	47.12	46.99
2520	55.38	-2.57	0.98	-1.17	0.98	-15.42	2.57	45	46.86	46.73
2530	51.34	-2.9	0.48	-1.67	0.48	-16.01	2.9	45	46.86	46.77
2540	48.13	-3.18	0.02	-2.13	0.02	-15.56	3.18	45	46.67	46.65
2550	47.94	-3.19	0.04	-2.11	0.04	-14.43	3.19	60	46.89	46.85
2560	49.86	-3.02	0.42	-1.73	0.42	-13.59	3.02	60	46.64	46.58
2570	49.24	-3.08	0.54	-1.61	0.54	-13.59	3.08	45	46.93	46.95
2580	46.37	-3.34	0.37	-1.78	0.37	-13.95	3.34	45	46.92	46.77
2590	45.77	-3.39	0.28	-1.87	0.28	-13.91	3.39	45	46.68	46.61
2600	41.39	-3.83	-0.45	-2.6	-0.45	-14.01	3.83	45	47.08	46.99
2610	42.03	-3.76	-0.64	-2.79	-0.64	-13.92	3.76	60	46.94	46.85
2620	42.39	-3.73	-0.87	-3.02	-0.87	-14.36	3.73	60	46.88	46.79
2630	41.61	-3.81	-1.09	-3.24	-1.09	-15.17	3.81	30	47.1	47.01
2640	52.54	-2.79	-0.11	-2.26	-0.11	-14.52	2.79	30	47.49	47.35
2650	52.75	-2.78	-0.1	-2.25	-0.1	-14.34	2.78	30	47.39	47.27
2660	55.85	-2.53	0.15	-2	0.15	-13.77	2.53	30	47.66	47.54
2670	60.98	-2.15	0.49	-1.66	0.49	-13.13	2.15	30	47.76	47.6
2680	57.67	-2.39	0.21	-1.94	0.21	-13.19	2.39	30	47.81	47.7
2690	58.22	-2.35	0.18	-1.97	0.18	-12.91	2.35	60	47.82	47.71
2700	50.17	-3	-0.56	-2.71	-0.56	-13.48	3	60	48.01	47.89



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.