

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	10
6	Others	11

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

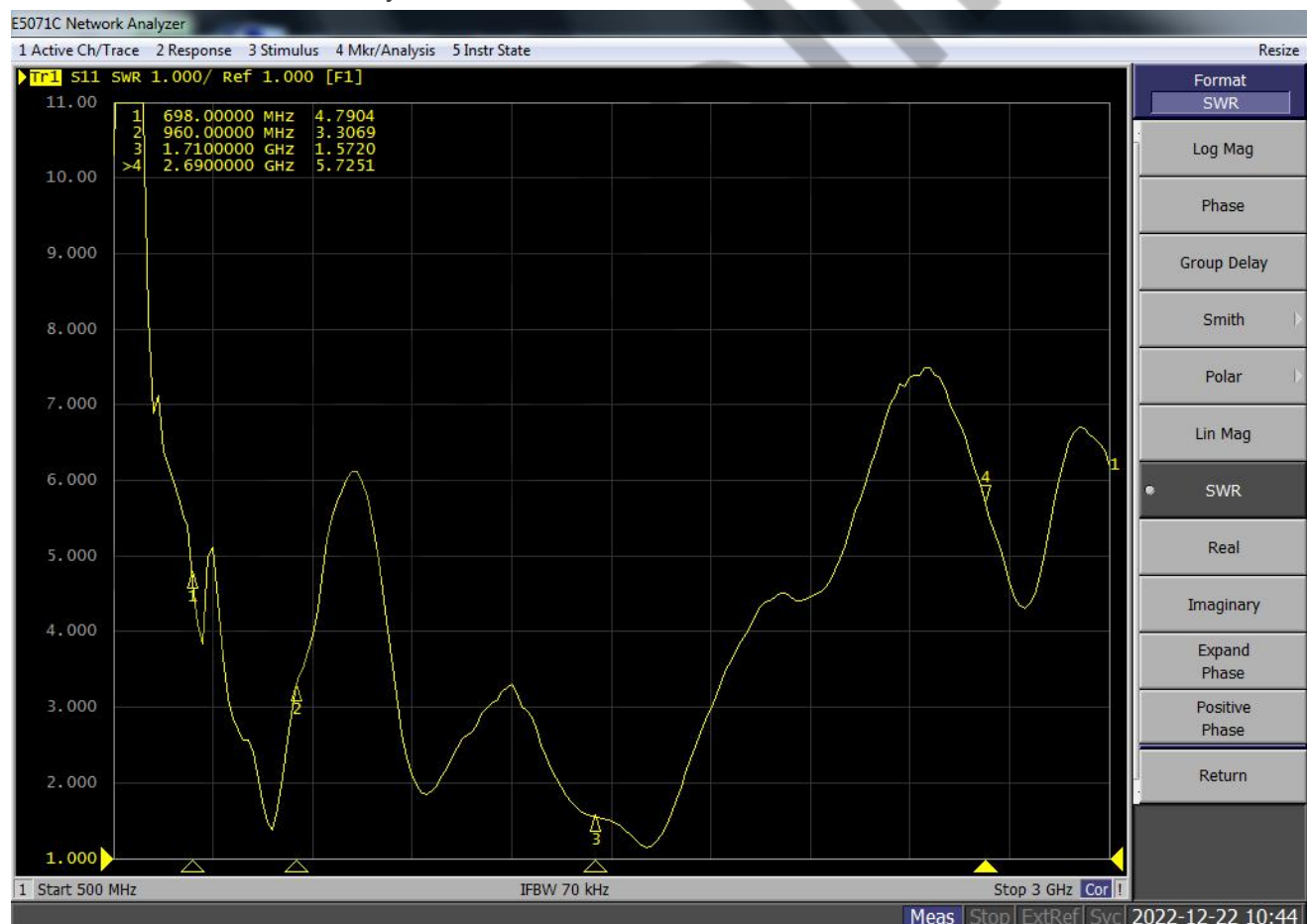
VSWR	≤6
Gain	≤5 dBi
Polarization Type	Linear

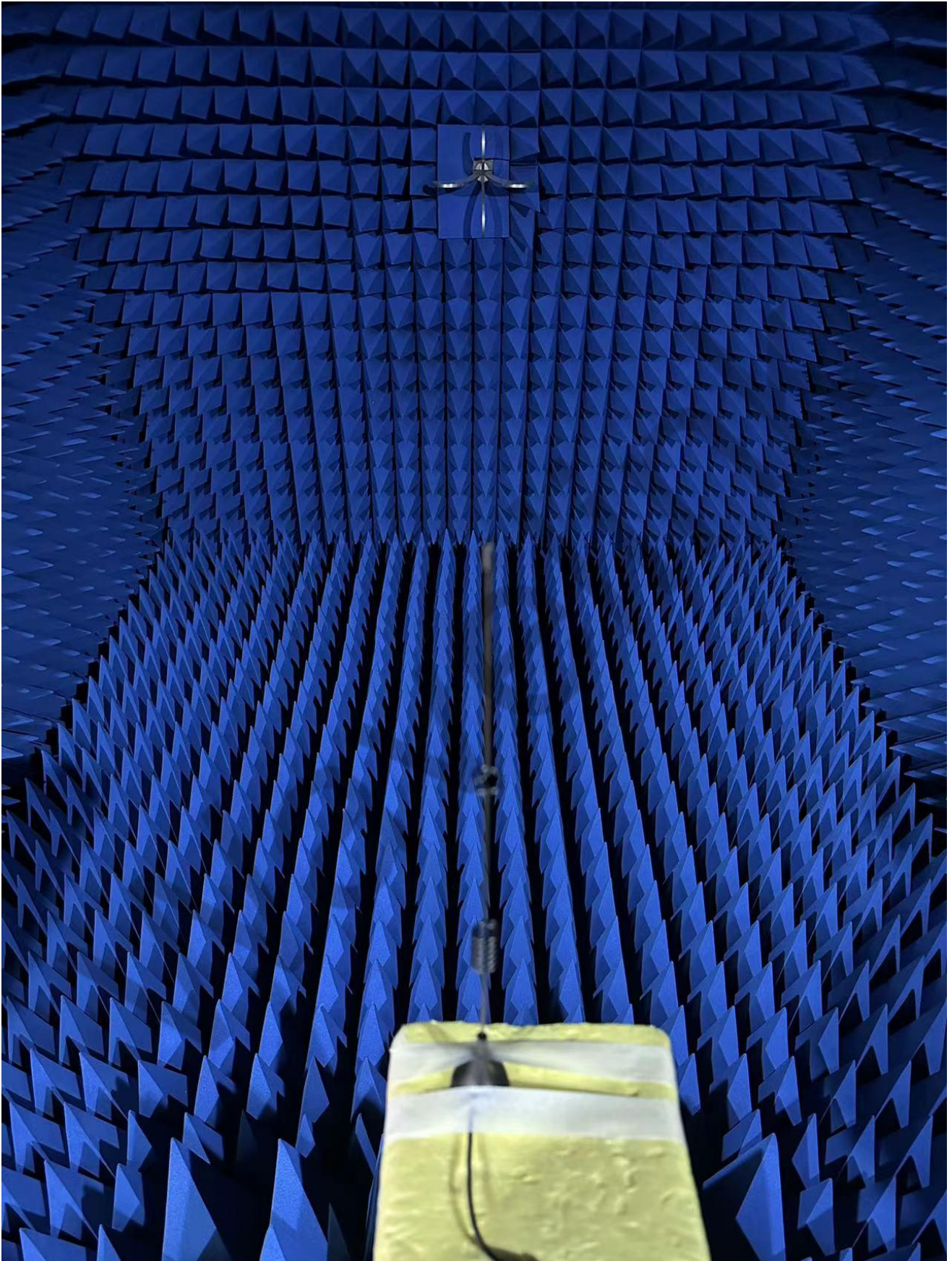
Mechanical Specifications

Antenna Size	310mm ×29mm
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

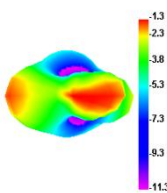
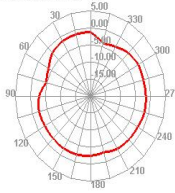
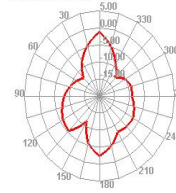
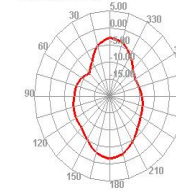
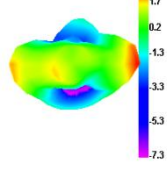
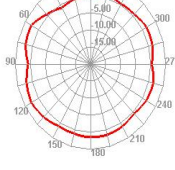
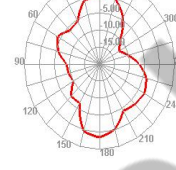
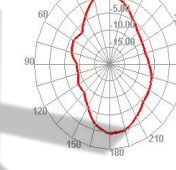
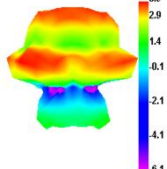
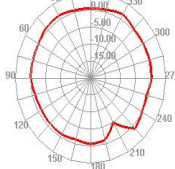
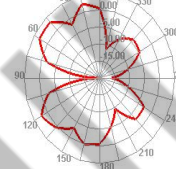
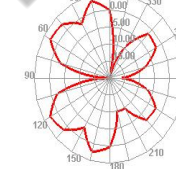
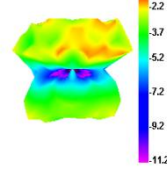
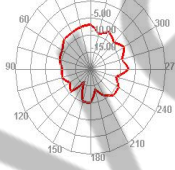
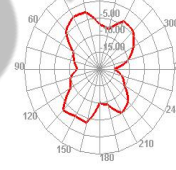
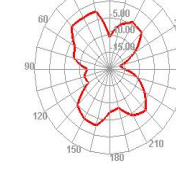




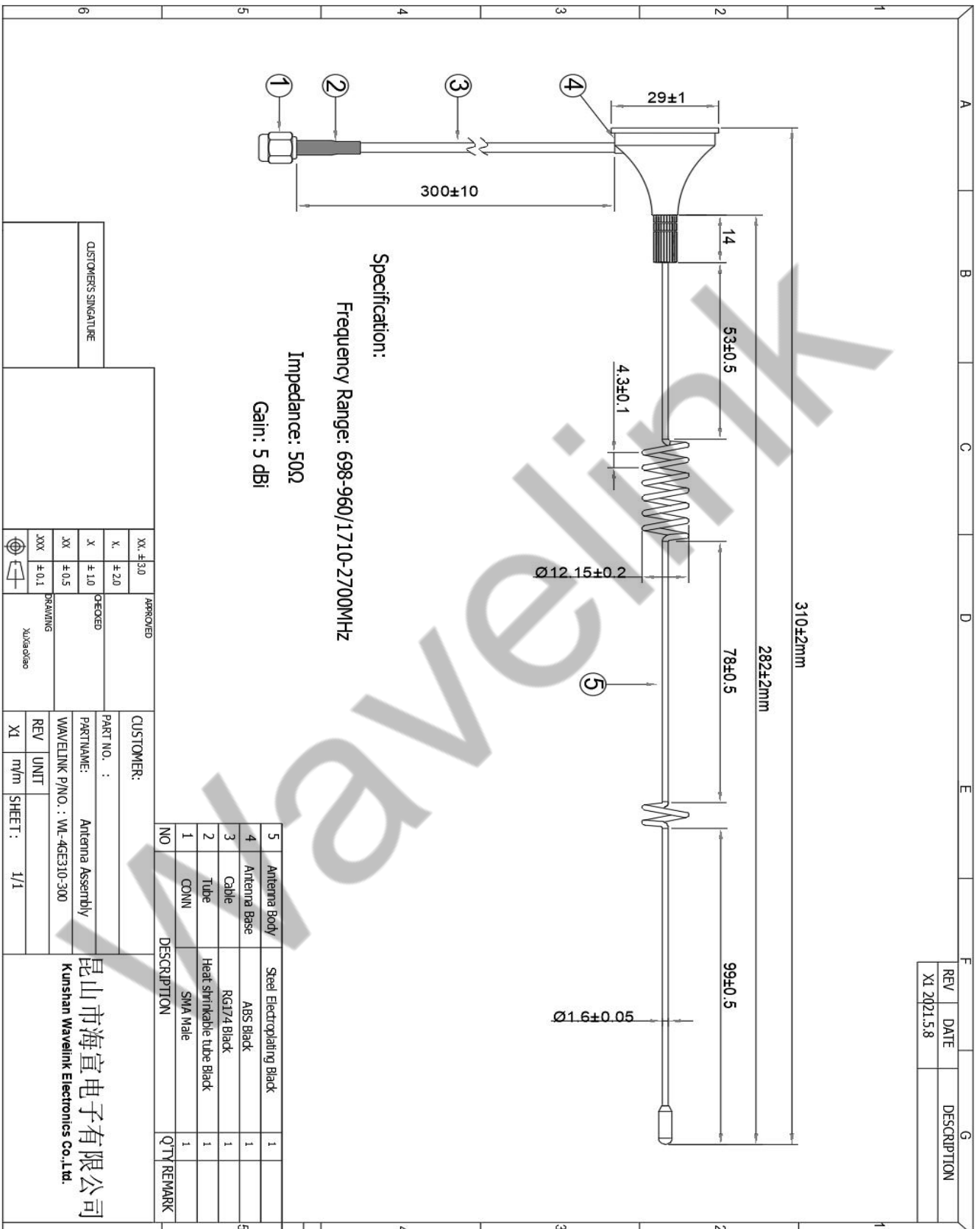
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
690	20.85	-7.02	-3.46	-5.61	-3.46	-23.24	3.56	38.08	38.5
700	22.4	-6.9	-2.92	-5.07	-2.92	-18.15	3.98	37.72	38.11
710	25.95	-5.86	-1.61	-3.76	-1.61	-13.53	4.25	37.98	38.41
720	19.91	-7.01	-2.95	-5.1	-2.95	-15.21	4.06	36.9	37.51
730	19.59	-7.08	-3.24	-5.39	-3.24	-16.14	3.84	37.24	37.77
740	13.98	-8.55	-5.19	-7.34	-5.19	-17.95	3.36	36.45	36.95
750	12.64	-8.98	-5.76	-7.91	-5.76	-21.82	3.23	36.08	36.51
760	13.75	-8.62	-5.27	-7.42	-5.27	-27.09	3.34	36.55	36.95
770	19.85	-7.02	-3.46	-5.61	-3.46	-23.24	3.56	38.08	38.5
780	20.4	-6.9	-2.92	-5.07	-2.92	-18.15	3.98	37.72	38.11
790	14.47	-8.4	-4.21	-6.36	-4.21	-17.74	4.19	36.44	36.83
800	16.47	-7.83	-3.47	-5.62	-3.47	-17.67	4.37	36.74	36.99
810	17.43	-7.59	-3.23	-5.38	-3.23	-18.3	4.36	37.18	37.35
820	28.03	-5.52	-1.29	-3.44	-1.29	-16.81	4.23	39.05	39.14
830	31.24	-5.05	-0.8	-2.95	-0.8	-16.36	4.25	39.64	39.65
840	27.51	-5.61	-1.11	-3.26	-1.11	-17.32	4.5	38.94	38.97
850	24.09	-6.18	-1.77	-3.92	-1.77	-18.68	4.42	38	38
860	24.94	-6.03	-1.54	-3.69	-1.54	-18.22	4.49	38.09	38.14
870	31.13	-5.07	-0.53	-2.68	-0.53	-17.55	4.54	38.67	38.68
880	41.73	-3.8	0.81	-1.34	0.81	-16.18	4.6	39.81	39.81
890	44.52	-3.51	1.36	-0.79	1.36	-15.4	4.87	40.06	40.05
900	35.97	-4.44	0.44	-1.71	0.44	-16.4	4.88	39.4	39.29
910	32.64	-4.86	0.12	-2.03	0.12	-16.69	4.99	38.82	38.71
920	38.02	-4.2	0.53	-1.62	0.53	-16.35	4.73	39.32	39.22
930	49.97	-3.01	1.61	-0.54	1.61	-15.29	4.63	40.47	40.33
940	64.83	-1.88	2.84	0.69	2.84	-13.83	4.72	41.27	41.11
950	64.65	-1.89	2.89	0.74	2.89	-13.21	4.79	41.21	40.93
960	60.67	-2.17	2.69	0.54	2.69	-14.82	4.86	40.56	40.26
1700	68.12	-1.67	3.14	0.99	3.14	-21.58	4.81	42.84	42.92
1710	83.4	-0.79	3.89	1.74	3.89	-21.86	4.68	43.65	43.74
1720	87.94	-0.56	4.09	1.94	4.09	-23.23	4.65	43.57	43.64
1730	87.87	-0.56	4.14	1.99	4.14	-22.22	4.7	43.38	43.51
1740	91.69	-0.38	4.4	2.25	4.4	-21.15	4.78	43.55	43.74
1750	92.16	-0.35	4.56	2.41	4.56	-22.95	4.92	43.54	43.67
1760	93.75	0.16	4.2	2.65	5.2	-20.09	5.04	44.09	44.21
1770	95.97	-0.18	4.98	2.83	4.98	-25.97	5.16	43.97	43.99
1780	94.1	-0.26	4.87	2.72	4.87	-25.86	5.13	43.92	44
1790	90.88	-0.42	4.73	2.58	4.73	-19.35	5.14	43.83	43.91
1800	92.14	-0.36	4.7	2.55	4.7	-18.26	5.06	44.19	44.31
1810	94.4	-0.25	4.72	2.57	4.72	-18.87	4.97	44.22	44.38
1820	80.77	-0.93	3.97	1.82	3.97	-20.12	4.9	43.93	44.01

1830	81.98	-0.86	3.97	1.82	3.97	-19.82	4.84	44.15	44.19
1840	82.84	-0.82	3.84	1.69	3.84	-18.25	4.66	44.3	44.22
1850	81.09	-0.91	3.76	1.61	3.76	-17.79	4.67	44.35	44.22
1860	75.65	-1.21	3.79	1.64	3.79	-18.03	5	43.88	43.75
1870	71.4	-1.46	3.82	1.67	3.82	-18.72	5.29	43.84	43.69
1880	70.09	-1.54	4	1.85	4	-18.12	5.54	43.64	43.49
1890	70.54	-1.52	4.22	2.07	4.22	-21.23	5.73	43.48	43.32
1900	69.04	-1.61	4.26	2.11	4.26	-22.54	5.87	43.42	43.25
1910	65.79	-1.82	4.16	2.01	4.16	-26.13	5.98	43.17	42.93
1920	59.99	-2.22	3.79	1.64	3.79	-22.92	6.01	42.81	42.69
1930	58.73	-2.31	3.77	1.62	3.77	-20.8	6.08	42.86	42.7
1940	54.64	-2.62	3.46	1.31	3.46	-21.28	6.08	42.74	42.64
1950	56.35	-2.49	3.55	1.4	3.55	-20.78	6.04	43.12	43.05
1960	56.32	-2.49	3.38	1.23	3.38	-23.81	5.87	43.34	43.23
1970	47.61	-3.22	2.4	0.25	2.4	-26.24	5.62	43.22	43.12
1980	41.62	-3.81	1.53	-0.62	1.53	-22.3	5.34	42.93	42.9
1990	39.2	-4.07	0.98	-1.17	0.98	-23.02	5.05	43.27	43.23
2000	38.1	-4.19	0.95	-1.2	0.95	-22.04	5.15	43.5	43.52
2010	38.65	-4.13	1.35	-0.8	1.35	-20.17	5.47	43.88	43.99
2020	33.44	-4.76	0.97	-1.18	0.97	-22.35	5.73	43.83	43.91
2030	33.64	-4.73	1.16	-0.99	1.16	-22.75	5.89	43.95	44.11
2040	30.67	-5.13	0.88	-1.27	0.88	-23.05	6.01	44.03	44.15
2050	27.92	-5.54	0.65	-1.5	0.65	-22.08	6.19	43.5	43.64
2060	26.41	-5.78	0.6	-1.55	0.6	-19.9	6.39	43.51	43.62
2070	25.63	-5.91	0.72	-1.43	0.72	-19.6	6.63	43.5	43.59
2080	28.28	-5.48	1.38	-0.77	1.38	-19.78	6.86	43.84	44.03
2090	29.68	-5.28	1.76	-0.39	1.76	-20.43	7.03	44.14	44.33
2100	28.98	-5.38	1.76	-0.39	1.76	-20.26	7.13	44.22	44.46
2110	42.52	-3.71	3.47	1.32	3.47	-20.76	7.19	45.08	45.26
2120	40	-3.98	3.2	1.05	3.2	-19.45	7.18	44.96	45.12
2130	42.26	-3.74	3.58	1.43	3.58	-21.96	7.32	44.85	44.92
2140	45.6	-3.41	4.03	1.88	4.03	-19.84	7.44	45	45.1
2150	50.72	-2.95	4.59	2.44	4.59	-21.18	7.54	45.07	45.16
2160	53.44	-2.72	4.83	2.68	4.83	-22.83	7.55	44.86	44.92
2170	60.8	-2.16	5.24	3.09	5.24	-20.53	7.41	45.47	45.64
2180	61.14	-2.14	4.99	2.84	4.99	-23.07	7.13	45.07	45.23
2190	57.5	-2.4	4.52	2.37	4.52	-26.86	6.92	44.9	45.06
2200	60.9	-2.15	4.46	2.31	4.46	-23.34	6.62	45.15	45.38
2210	65.1	-1.86	4.41	2.26	4.41	-21.24	6.27	45.97	46.13
2220	63.46	-1.97	3.8	1.65	3.8	-20.57	5.77	45.83	46.01
2230	54.18	-2.66	2.56	0.41	2.56	-17.65	5.22	45.66	45.9
2240	42.86	-3.68	0.98	-1.17	0.98	-18.6	4.65	45.54	45.65
2250	45.64	-3.41	1.24	-0.91	1.24	-19.32	4.65	45.78	45.91
2260	39.65	-4.02	0.78	-1.37	0.78	-20.26	4.8	45.81	45.89

2270	36.04	-4.43	0.41	-1.74	0.41	-19.53	4.84	45.7	45.75
2280	36.16	-4.42	0.26	-1.89	0.26	-17.82	4.67	45.79	45.88
2290	29.36	-5.32	-0.86	-3.01	-0.86	-17.27	4.46	45.55	45.68
2300	29.77	-5.26	-1.17	-3.32	-1.17	-16.84	4.09	45.52	45.64
2310	27.81	-5.56	-1.71	-3.86	-1.71	-17.72	3.85	45.65	45.74
2320	32.45	-4.89	-1.27	-3.42	-1.27	-18.61	3.62	46.35	46.49
2330	31.13	-5.07	-1.36	-3.51	-1.36	-20.78	3.71	46.21	46.27
2340	26.19	-5.82	-2.1	-4.25	-2.1	-23.05	3.72	46.04	46.17
2350	28.6	-5.44	-1.62	-3.77	-1.62	-22.69	3.82	46.29	46.36
2360	26.06	-5.84	-1.94	-4.09	-1.94	-22.38	3.9	46.11	46.29
2370	29	-5.38	-1.41	-3.56	-1.41	-22.67	3.96	46.25	46.4
2380	26.56	-5.76	-1.79	-3.94	-1.79	-23.13	3.97	46.06	46.2
2390	24.99	-6.02	-1.98	-4.13	-1.98	-22.14	4.04	46.03	46.29
2400	26.17	-5.82	-1.75	-3.9	-1.75	-21.38	4.07	46.33	46.47
2410	26.35	-5.79	-1.98	-4.13	-1.98	-21.44	3.81	46.51	46.7
2420	28.08	-5.52	-1.82	-3.97	-1.82	-21.11	3.7	46.33	46.5
2430	26.06	-5.84	-2.15	-4.3	-2.15	-21.29	3.69	46.7	46.83
2440	25.88	-5.87	-2.11	-4.26	-2.11	-21.49	3.76	46.75	46.79
2450	23.32	-6.32	-2.6	-4.75	-2.6	-21.13	3.72	46.2	46.36
2460	21.43	-6.69	-2.9	-5.05	-2.9	-21.02	3.78	46.66	46.73
2470	23.74	-6.25	-2.44	-4.59	-2.44	-19.77	3.81	46.55	46.66
2480	23.01	-6.38	-2.53	-4.68	-2.53	-20.76	3.86	46.99	47.17
2490	23.28	-6.33	-2.48	-4.63	-2.48	-20.88	3.85	46.73	46.8
2500	22.2	-6.54	-2.68	-4.83	-2.68	-20.74	3.85	46.67	46.84
2510	21.4	-6.7	-2.76	-4.91	-2.76	-20.99	3.94	47.1	47.17
2520	23.85	-6.22	-2.21	-4.36	-2.21	-23.74	4.01	46.45	46.58
2530	21.35	-6.71	-2.57	-4.72	-2.57	-29.67	4.13	46.55	46.59
2540	24.75	-6.07	-1.74	-3.89	-1.74	-31.77	4.32	46.89	46.95
2550	21.02	-6.77	-2.21	-4.36	-2.21	-28.42	4.56	46.45	46.51
2560	25.37	-5.96	-1.15	-3.3	-1.15	-25.03	4.81	46.89	46.94
2570	27	-5.69	-0.73	-2.88	-0.73	-24.76	4.96	46.66	46.7
2580	29.04	-5.37	-0.28	-2.43	-0.28	-23.53	5.09	47.17	47.23
2590	29.67	-5.28	-0.04	-2.19	-0.04	-22.39	5.24	46.61	46.66
2600	29.79	-5.26	0.38	-1.77	0.38	-22.77	5.64	46.66	46.73
2610	34.41	-4.63	1.29	-0.86	1.29	-23.57	5.92	46.94	47.05
2620	36.73	-4.35	1.66	-0.49	1.66	-22.18	6.01	46.68	46.72
2630	39.08	-4.08	2.08	-0.07	2.08	-21.74	6.16	47.29	47.32
2640	41.77	-3.79	2.46	0.31	2.46	-22.25	6.26	46.75	46.82
2650	42.72	-3.69	2.63	0.48	2.63	-24.97	6.32	47.2	47.31
2660	42.07	-3.76	2.59	0.44	2.59	-27.07	6.35	47.38	47.42
2670	41.56	-3.81	2.46	0.31	2.46	-22.34	6.27	47.05	47.24
2680	46.08	-3.37	2.91	0.76	2.91	-19.91	6.27	47.93	48
2690	43.93	-3.57	2.6	0.45	2.6	-20.96	6.17	47.15	47.3
2700	46.86	-3.29	2.78	0.63	2.78	-20.6	6.07	48.52	48.74

Frequency	3D	E1	E2	H
820MHz	820.000MHz 	820.000MHz E1 	820.000MHz E2 	820.000MHz H 
960MHz	960.000MHz 	960.000MHz E1 	960.000MHz E2 	960.000MHz H 
1710MHz	1710.000MHz 	1710.000MHz E1 	1710.000MHz E2 	1710.000MHz H 
2300MHz	2300.000MHz 	2300.000MHz E1 	2300.000MHz E2 	2300.000MHz H 

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.