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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Email: sales@kswavelink.com

Wavelink Certifications:

Wavelink Partners:

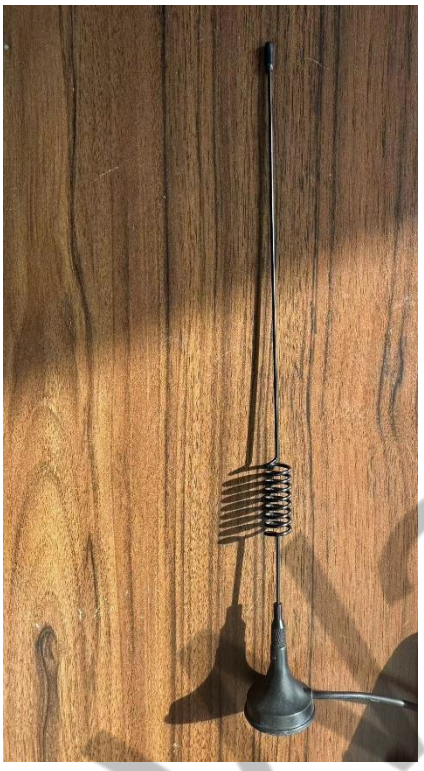
Catalogue

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



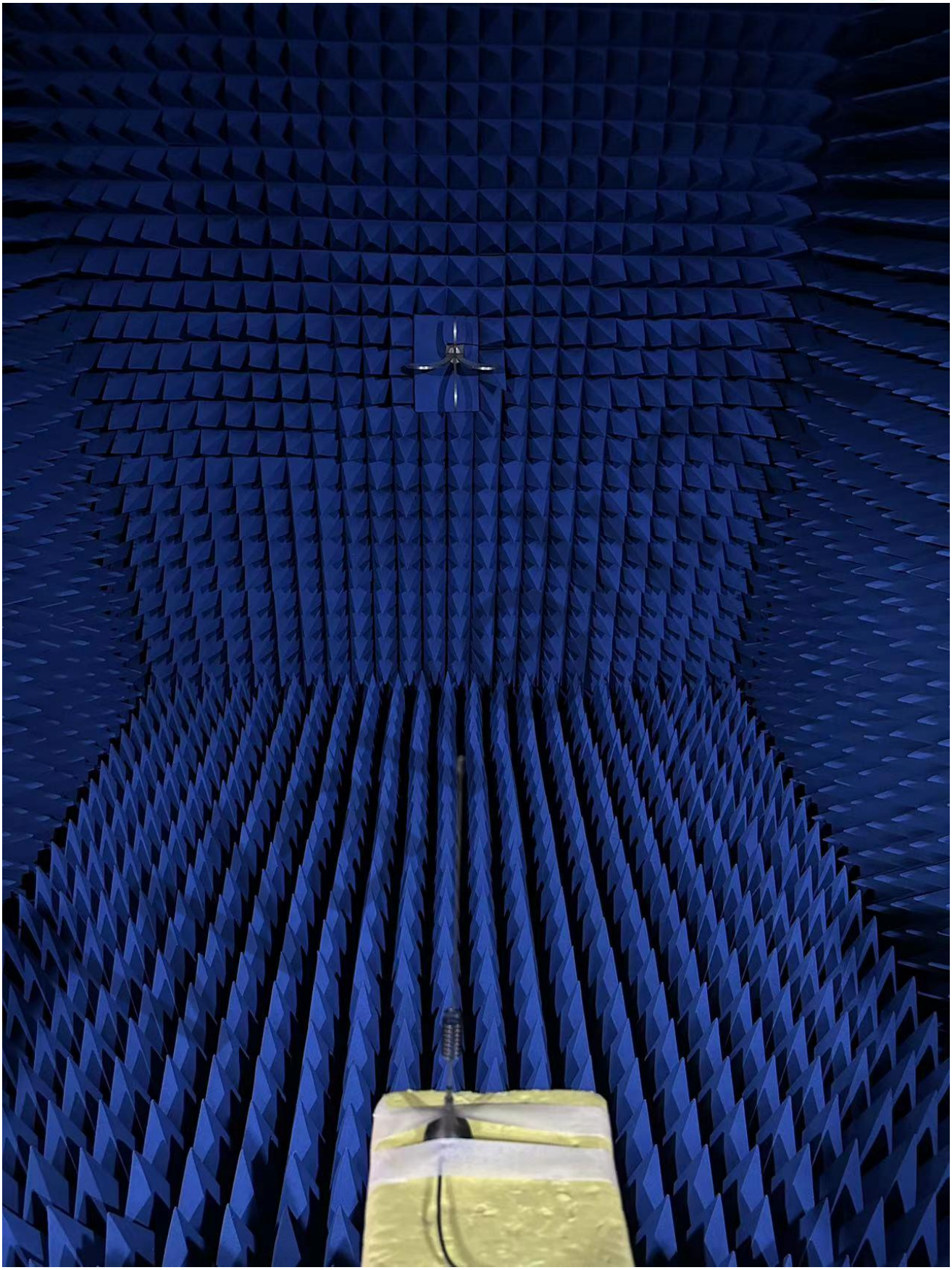
3 Product Specifications

Passive Electrical Specifications	
Frequency Range	698-960 MHz 1710-2690MHz

Input Impedance	50 Ω
VSWR	≤5
Gain	≤5 dBi
Polarization Type	Linear
Mechanical Specifications	
Antenna Size	275mm ×29mm
Connector Type	SMA
Working Temperature	-40 °C to +85 °C
Radome Color	Black

4 Overall Performance

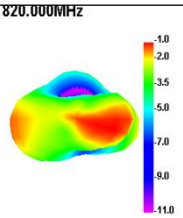
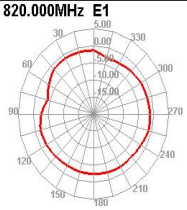
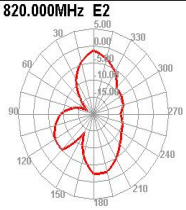
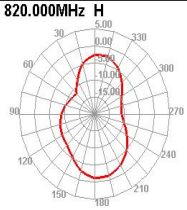
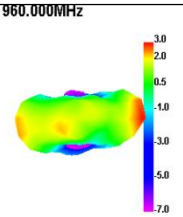
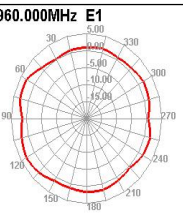
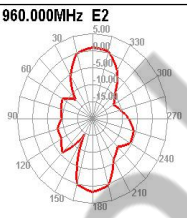
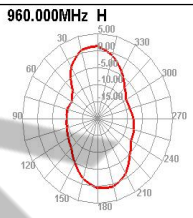
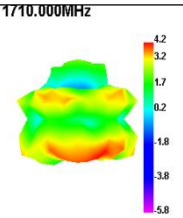
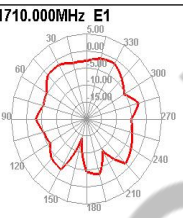
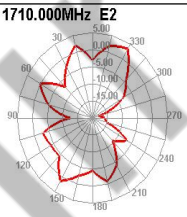
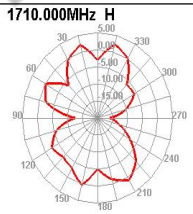
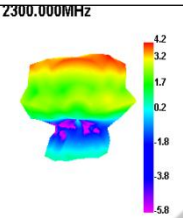
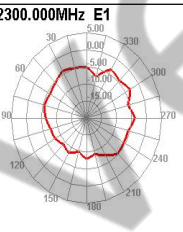
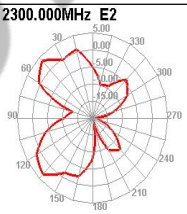
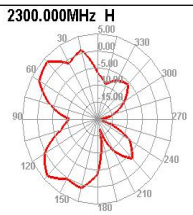
KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz



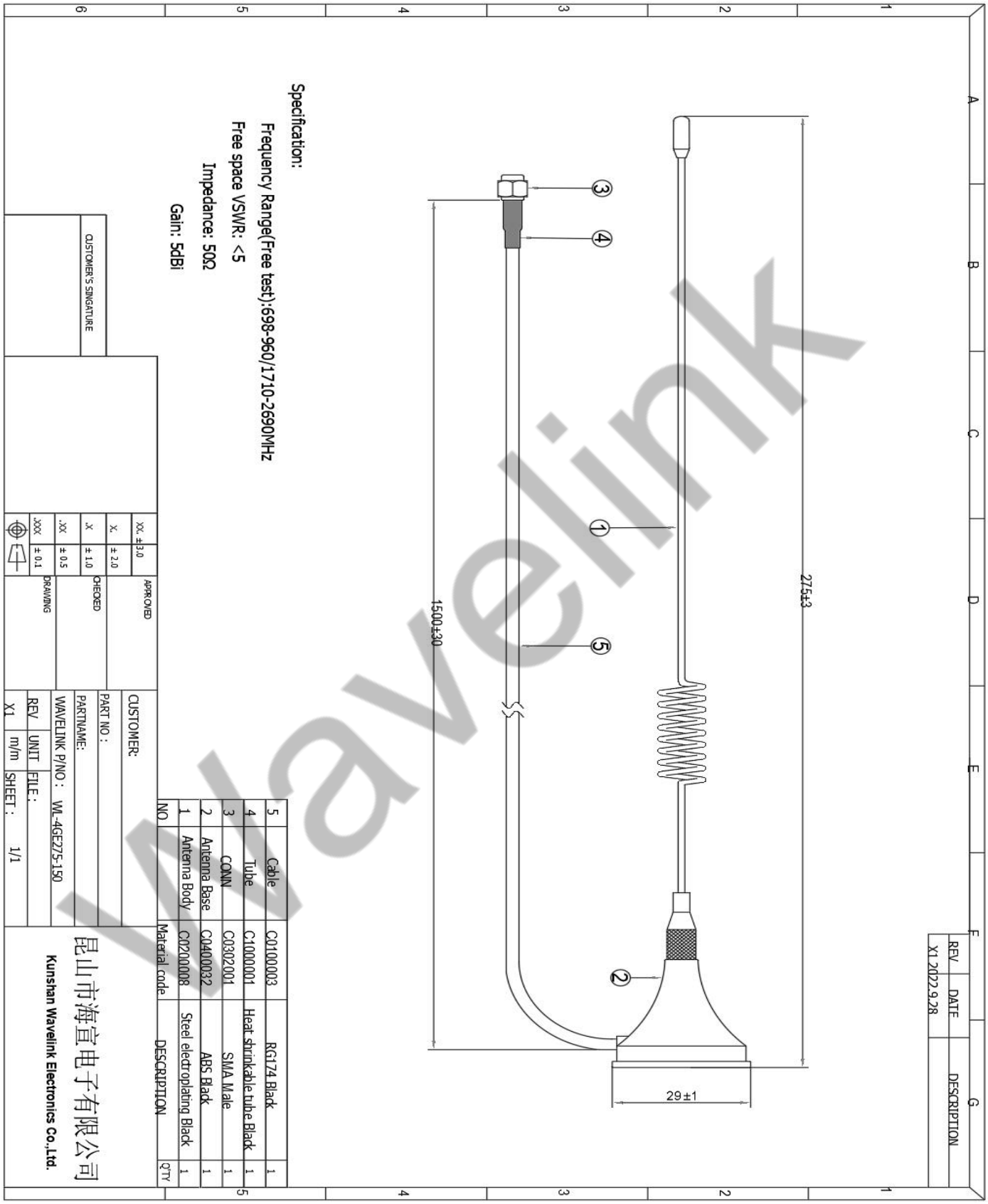
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
690	25.08	-6.18	-1.69	-3.84	-1.69	-18.33	4.5	38	38
700	26.01	-6.2	-1.6	-3.75	-1.6	-16.87	4.59	38.09	38.14
710	27.58	-5.59	-1.22	-3.37	-1.22	-16.19	4.38	37.98	38.41
720	25.93	-5.86	-1.49	-3.64	-1.49	-15.68	4.38	36.9	37.51
730	30.9	-5.1	-0.9	-3.05	-0.9	-15.24	4.2	37.24	37.77
740	25.21	-5.98	-2.15	-4.3	-2.15	-15.01	3.83	36.45	36.95
750	23.47	-6.29	-2.62	-4.77	-2.62	-15.03	3.67	36.08	36.51
760	24.42	-6.12	-2.57	-4.72	-2.57	-14.76	3.55	36.55	36.95
770	32.54	-4.88	-1.41	-3.56	-1.41	-16.33	3.47	38.08	38.5
780	30.11	-5.21	-1.69	-3.84	-1.69	-19.02	3.52	37.72	38.11
790	19.79	-7.04	-3.4	-5.55	-3.4	-22.33	3.63	36.44	36.83
800	20.87	-6.81	-2.83	-4.98	-2.83	-21.44	3.98	36.74	36.99
810	20.56	-6.87	-2.82	-4.97	-2.82	-20.36	4.05	37.18	37.35
820	31.66	-5	-1.01	-3.16	-1.01	-17.75	3.99	39.05	39.14
830	33.54	-4.74	-0.59	-2.74	-0.59	-16.03	4.15	39.64	39.65
840	28.42	-5.46	-0.99	-3.14	-0.99	-17.53	4.47	38.94	38.97
850	24.08	-6.18	-1.69	-3.84	-1.69	-18.33	4.5	38	38
860	24.01	-6.2	-1.6	-3.75	-1.6	-16.87	4.59	38.09	38.14
870	29.59	-5.29	-0.61	-2.76	-0.61	-14.43	4.68	38.67	38.68
880	39.38	-4.05	0.72	-1.43	0.72	-13.24	4.77	39.81	39.81
890	42.24	-3.74	1.15	-1	1.15	-12.98	4.89	40.06	40.05
900	34.37	-4.64	0.14	-2.01	0.14	-14.89	4.78	39.4	39.29
910	31.3	-5.05	-0.12	-2.27	-0.12	-16.09	4.92	38.82	38.71
920	37.03	-4.31	0.4	-1.75	0.4	-14.94	4.71	39.32	39.22
930	49.31	-3.07	1.59	-0.56	1.59	-13.01	4.66	40.47	40.33
940	64.73	-1.89	2.94	0.79	2.94	-12.82	4.83	41.27	41.11
950	65.87	-1.81	3.13	0.98	3.13	-13.76	4.94	41.21	40.93
960	61.5	-2.11	3.04	0.89	3.04	-14.59	5.15	40.56	40.26
1700	70.67	-1.51	3.56	1.41	3.56	-19.26	5.07	42.84	42.92
1710	78.72	-1.04	4.24	2.09	4.24	-18.92	5.28	43.65	43.74
1720	78.99	-1.02	4.25	2.1	4.25	-22.18	5.28	43.57	43.64
1730	69.48	-1.58	3.62	1.47	3.62	-22.88	5.2	43.38	43.51
1740	75.29	-1.23	4.1	1.95	4.1	-23.01	5.33	43.55	43.74
1750	69.04	-1.61	3.71	1.56	3.71	-20.4	5.32	43.54	43.67
1760	69.84	-1.56	3.72	1.57	3.72	-22.61	5.28	44.09	44.21
1770	69.39	-1.59	3.61	1.46	3.61	-21.78	5.2	43.97	43.99
1780	61.4	-2.12	3.02	0.87	3.02	-22.15	5.14	43.92	44
1790	63.38	-1.98	3.15	1	3.15	-19.29	5.13	43.83	43.91
1800	63.47	-1.97	3.13	0.98	3.13	-18.66	5.1	44.19	44.31
1810	63.94	-1.94	3.13	0.98	3.13	-18.86	5.08	44.22	44.38
1820	57.23	-2.42	2.58	0.43	2.58	-19.88	5	43.93	44.01

1830	57.09	-2.43	2.6	0.45	2.6	-19.44	5.04	44.15	44.19
1840	60.8	-2.16	3.01	0.86	3.01	-19.36	5.18	44.3	44.22
1850	60.82	-2.16	3.09	0.94	3.09	-19.39	5.25	44.35	44.22
1860	52.99	-2.76	2.48	0.33	2.48	-21.65	5.24	43.88	43.75
1870	52.9	-2.77	2.37	0.22	2.37	-21.75	5.14	43.84	43.69
1880	50.58	-2.96	2.11	-0.04	2.11	-23.24	5.07	43.64	43.49
1890	53.32	-2.73	2.26	0.11	2.26	-25.12	4.99	43.48	43.32
1900	49.12	-3.09	1.81	-0.34	1.81	-25.22	4.9	43.42	43.25
1910	48.77	-3.12	1.98	-0.17	1.98	-23.21	5.1	43.17	42.93
1920	45.69	-3.4	2.11	-0.04	2.11	-21.79	5.51	42.81	42.69
1930	43.78	-3.59	2.21	0.06	2.21	-21.09	5.8	42.86	42.7
1940	48.55	-3.14	2.78	0.63	2.78	-20.25	5.92	42.74	42.64
1950	51.3	-2.9	2.99	0.84	2.99	-20.25	5.89	43.12	43.05
1960	53.02	-2.76	2.99	0.84	2.99	-20.63	5.75	43.34	43.23
1970	52.25	-2.82	2.77	0.62	2.77	-22.28	5.58	43.22	43.12
1980	48.3	-3.16	2.4	0.25	2.4	-24.47	5.56	42.93	42.9
1990	53.17	-2.74	2.81	0.66	2.81	-24	5.55	43.27	43.23
2000	55.22	-2.58	2.96	0.81	2.96	-23.65	5.54	43.5	43.52
2010	55.02	-2.59	2.97	0.82	2.97	-24.91	5.57	43.88	43.99
2020	55.83	-2.53	3.25	1.1	3.25	-25.55	5.78	43.83	43.91
2030	53.05	-2.75	3.31	1.16	3.31	-23.56	6.07	43.95	44.11
2040	48.01	-3.19	3.15	1	3.15	-22.85	6.34	44.03	44.15
2050	40.67	-3.91	2.56	0.41	2.56	-23.43	6.46	43.5	43.64
2060	34.51	-4.62	1.78	-0.37	1.78	-24.22	6.4	43.51	43.62
2070	31.97	-4.95	1.23	-0.92	1.23	-24.52	6.18	43.5	43.59
2080	32.91	-4.83	1.37	-0.78	1.37	-25.79	6.2	43.84	44.03
2090	33.21	-4.79	1.47	-0.68	1.47	-26.95	6.25	44.14	44.33
2100	32.34	-4.9	1.17	-0.98	1.17	-24.41	6.07	44.22	44.46
2110	44.5	-3.52	2.38	0.23	2.38	-22.34	5.9	45.08	45.26
2120	43.95	-3.57	2.21	0.06	2.21	-24.87	5.78	44.96	45.12
2130	45.66	-3.4	2.18	0.03	2.18	-27.29	5.58	44.85	44.92
2140	48.3	-3.16	2.32	0.17	2.32	-24.51	5.48	45	45.1
2150	53.01	-2.76	2.64	0.49	2.64	-23.53	5.4	45.07	45.16
2160	54.43	-2.64	2.68	0.53	2.68	-27.22	5.32	44.86	44.92
2170	60.81	-2.16	3.09	0.94	3.09	-36.62	5.25	45.47	45.64
2180	61.39	-2.12	3.22	1.07	3.22	-29.65	5.34	45.07	45.23
2190	58.85	-2.3	3.3	1.15	3.3	-23.54	5.6	44.9	45.06
2200	64.36	-1.91	3.84	1.69	3.84	-20.42	5.76	45.15	45.38
2210	77.05	-1.13	4.72	2.57	4.72	-23.25	5.85	45.97	46.13
2220	79.88	-0.98	4.82	2.67	4.82	-28.74	5.79	45.83	46.01
2230	74.05	-1.3	4.45	2.3	4.45	-27.35	5.76	45.66	45.9
2240	68.75	-1.63	4.12	1.97	4.12	-29.24	5.75	45.54	45.65
2250	76.83	-1.14	4.72	2.57	4.72	-25.11	5.86	45.78	45.91
2260	72.33	-1.41	4.64	2.49	4.64	-24.26	6.04	45.81	45.89

2270	69.38	-1.59	4.56	2.41	4.56	-21.11	6.15	45.7	45.75
2280	71.29	-1.47	4.72	2.57	4.72	-23.13	6.19	45.79	45.88
2290	61.65	-2.1	4.11	1.96	4.11	-22.04	6.21	45.55	45.68
2300	63.05	-2	4.24	2.09	4.24	-20.75	6.25	45.52	45.64
2310	60.76	-2.16	4.12	1.97	4.12	-21.06	6.28	45.65	45.74
2320	69.55	-1.58	4.76	2.61	4.76	-22.56	6.34	46.35	46.49
2330	66.85	-1.75	4.58	2.43	4.58	-24.7	6.33	46.21	46.27
2340	58.91	-2.3	4.09	1.94	4.09	-25.7	6.39	46.04	46.17
2350	62.88	-2.01	4.46	2.31	4.46	-25.56	6.47	46.29	46.36
2360	60.31	-2.2	4.3	2.15	4.3	-24.55	6.49	46.11	46.29
2370	64.39	-1.91	4.68	2.53	4.68	-24.44	6.6	46.25	46.4
2380	60.79	-2.16	4.59	2.44	4.59	-22.22	6.75	46.06	46.2
2390	58.82	-2.3	4.62	2.47	4.62	-21.58	6.92	46.03	46.29
2400	60.53	-2.18	4.9	2.75	4.9	-20.31	7.08	46.33	46.47
2410	58.92	-2.3	4.95	2.8	4.95	-21.12	7.25	46.51	46.7
2420	59.12	-2.28	5.16	3.01	5.16	-17.83	7.44	46.33	46.5
2430	53.85	-2.69	4.95	2.8	4.95	-19.31	7.63	46.7	46.83
2440	51.02	-2.92	4.84	2.69	4.84	-18.72	7.76	46.75	46.79
2450	40.91	-3.88	3.95	1.8	3.95	-18.46	7.83	46.2	46.36
2460	37.18	-4.3	3.48	1.33	3.48	-18.98	7.77	46.66	46.73
2470	35.81	-4.46	3.23	1.08	3.23	-21.24	7.69	46.55	46.66
2480	31.52	-5.01	2.53	0.38	2.53	-23.39	7.54	46.99	47.17
2490	30.73	-5.12	2.33	0.18	2.33	-24.35	7.45	46.73	46.8
2500	25.78	-5.89	1.44	-0.71	1.44	-24.02	7.32	46.67	46.84
2510	23.56	-6.28	0.92	-1.23	0.92	-21.36	7.2	47.1	47.17
2520	23.01	-6.38	0.6	-1.55	0.6	-20.31	6.98	46.45	46.58
2530	20.01	-6.99	-0.27	-2.42	-0.27	-20.79	6.72	46.55	46.59
2540	22.39	-6.5	-0.07	-2.22	-0.07	-18.8	6.43	46.89	46.95
2550	17.3	-7.62	-1.46	-3.61	-1.46	-20.39	6.15	46.45	46.51
2560	19.93	-7.01	-1.12	-3.27	-1.12	-19.57	5.88	46.89	46.94
2570	20.11	-6.97	-1.37	-3.52	-1.37	-18.74	5.6	46.66	46.7
2580	20.65	-6.85	-1.41	-3.56	-1.41	-17.81	5.44	47.17	47.23
2590	20.26	-6.93	-1.59	-3.74	-1.59	-17.28	5.34	46.61	46.66
2600	18.54	-7.32	-2.17	-4.32	-2.17	-17.55	5.15	46.66	46.73
2610	20.44	-6.9	-1.96	-4.11	-1.96	-17.61	4.93	46.94	47.05
2620	20.03	-6.98	-2.07	-4.22	-2.07	-18.03	4.91	46.68	46.72
2630	20.47	-6.89	-2.05	-4.2	-2.05	-18.65	4.84	47.29	47.32
2640	21.79	-6.62	-1.85	-4	-1.85	-18.98	4.77	46.75	46.82
2650	22.32	-6.51	-1.72	-3.87	-1.72	-19.41	4.79	47.2	47.31
2660	22.42	-6.49	-1.7	-3.85	-1.7	-19.76	4.8	47.38	47.42
2670	22.84	-6.41	-1.61	-3.76	-1.61	-19.84	4.81	47.05	47.24
2680	26.94	-5.7	-0.98	-3.13	-0.98	-19.05	4.72	47.93	48
2690	27.57	-5.6	-0.92	-3.07	-0.92	-18.83	4.68	47.15	47.3

Frequency	3D	E1	E2	H
820MHz				
960MHz				
1710MHz				
2300MHz				

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 ℃. 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 ℃⇔125 ℃ 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℃, 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.