

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 Partners:



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

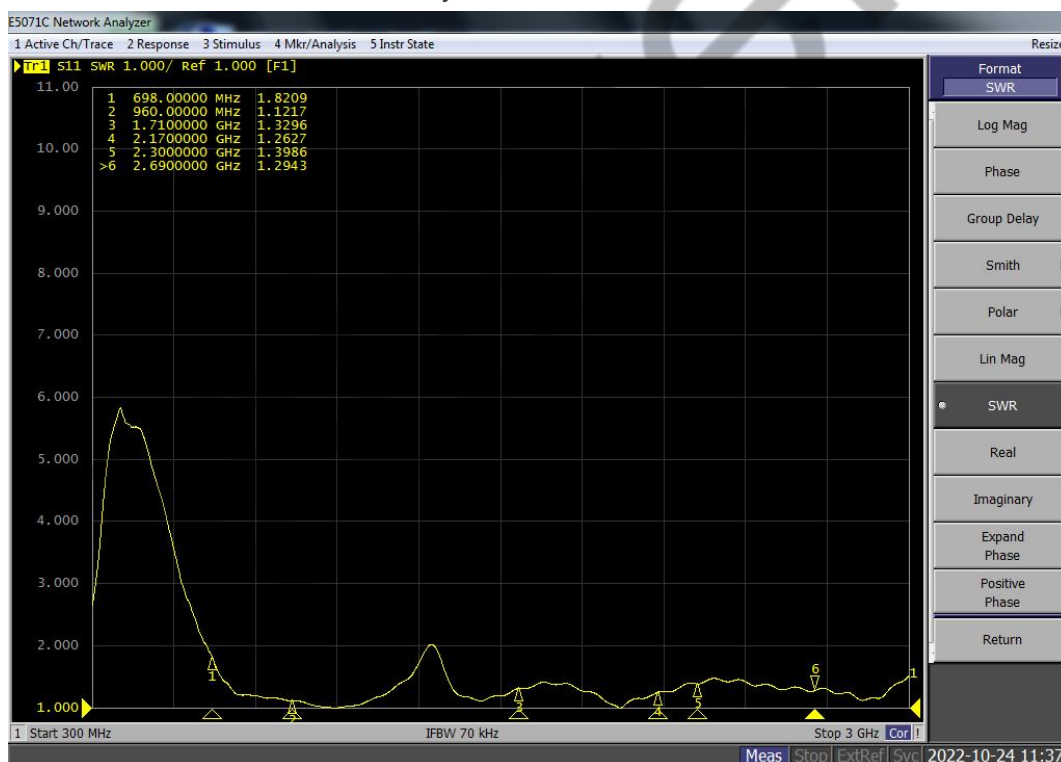
VSWR	≤ 2
Gain	≤ 5 dBi
Polarization Type	Linear

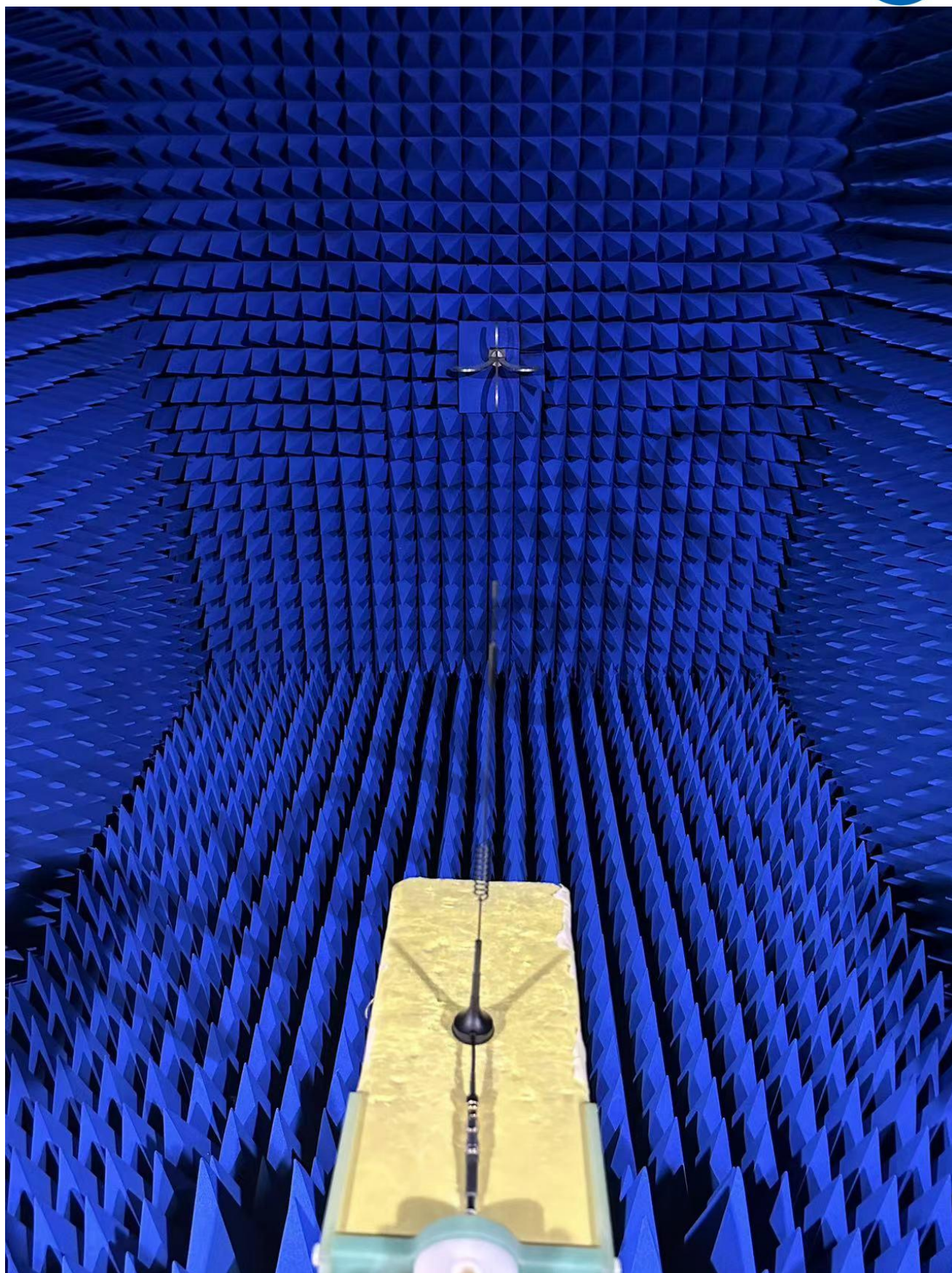
Mechanical Specifications

Antenna Size	318mm × 29.4mm
Casing	Spring
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

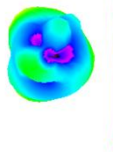
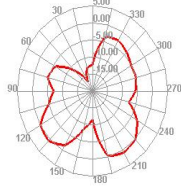
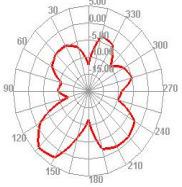
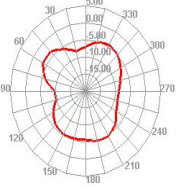
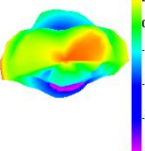
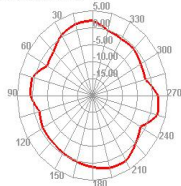
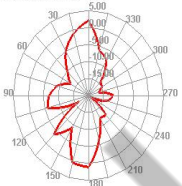
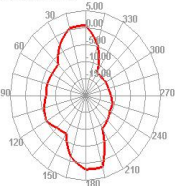
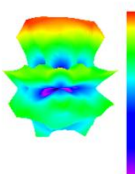
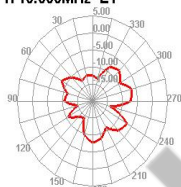
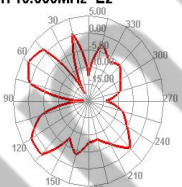
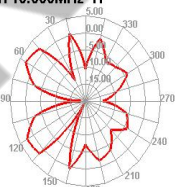
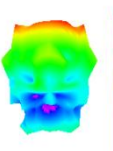
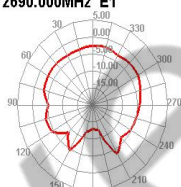
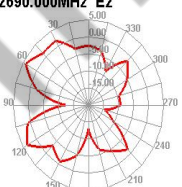
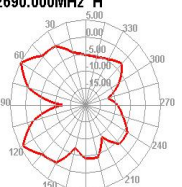




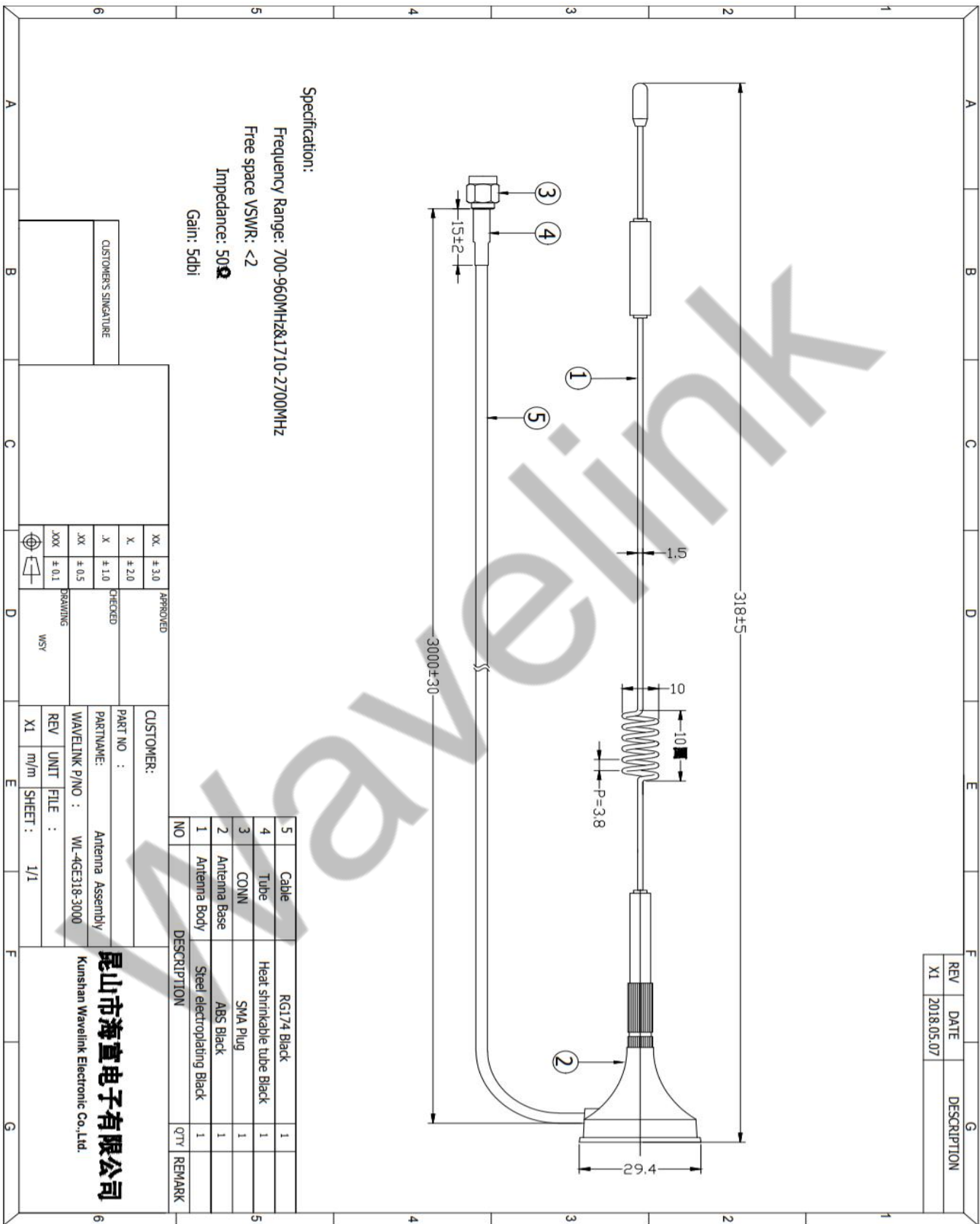
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
690	47.58	-3.23	3.85	1.7	3.85	-14.64	3.23	30	38.96	38.58
700	48.87	-3.11	3.78	1.63	3.78	-16.8	3.11	30	38.67	38.35
710	47.39	-3.24	3.36	1.21	3.36	-16.06	3.24	30	38.56	38.31
720	38.2	-4.18	2.06	-0.09	2.06	-13.68	4.18	30	37.98	37.82
730	36.1	-4.43	1.44	-0.71	1.44	-12.31	4.43	30	37.83	37.7
740	32.56	-4.87	0.54	-1.61	0.54	-13.69	4.87	30	37.76	37.64
750	33.6	-4.74	0.34	-1.81	0.34	-12.24	4.74	30	37.77	37.66
760	35.13	-4.54	0.53	-1.62	0.53	-12.85	4.54	30	37.93	37.81
770	29.79	-5.26	-0.36	-2.51	-0.36	-15.97	5.26	15	37.24	37.1
780	26.72	-5.73	-0.93	-3.08	-0.93	-17.04	5.73	15	37.19	37.03
790	29.83	-5.25	-0.35	-2.5	-0.35	-15.72	5.25	15	37.73	37.56
800	30.71	-5.13	0	-2.15	0	-15.43	5.13	30	37.94	37.73
810	30.74	-5.12	0.15	-2	0.15	-14.86	5.12	30	37.96	37.73
820	32.9	-4.83	0.46	-1.69	0.46	-14.15	4.83	30	38.16	37.9
830	36.88	-4.33	1.04	-1.11	1.04	-13.96	4.33	30	38.49	38.22
840	35.96	-4.44	0.93	-1.22	0.93	-14.81	4.44	30	38.52	38.25
850	39.03	-4.09	1.2	-0.95	1.2	-15.23	4.09	30	38.8	38.54
860	41.88	-3.78	1.54	-0.61	1.54	-18.96	3.78	30	39.07	38.78
870	41.71	-3.8	1.59	-0.56	1.59	-26.19	3.8	30	39.12	38.77
880	43.74	-3.59	2	-0.15	2	-21.52	3.59	30	39.36	38.96
890	45.92	-3.38	2.59	0.44	2.59	-23.72	3.38	30	39.65	39.24
900	48.52	-3.14	3.25	1.1	3.25	-21.73	3.14	30	39.83	39.42
910	49.51	-3.05	3.73	1.58	3.73	-18.38	3.05	30	40.07	39.66
920	50.5	-2.97	4.1	1.95	4.1	-17.51	2.97	30	40.27	39.84
930	44.98	-3.47	3.61	1.46	3.61	-20.36	3.47	30	40.25	39.72
940	41.79	-3.79	3.28	1.13	3.28	-22.72	3.79	30	40.32	39.64
950	39.5	-4.03	3.02	0.87	3.02	-24.2	4.03	30	40.43	39.66
960	35.27	-4.53	2.96	0.81	2.96	-24.61	4.53	15	40.19	39.43
1700	58.8	-2.31	4.28	2.13	4.28	-33.63	2.31	15	42.91	42.83
1710	55.18	-2.58	3.98	1.83	3.98	-23.97	2.58	15	42.93	42.83
1720	45.98	-3.37	3.14	0.99	3.14	-24.48	3.37	15	42.39	42.21
1730	45.59	-3.41	3.04	0.89	3.04	-18.6	3.41	15	42.54	42.32
1740	44.9	-3.48	2.89	0.74	2.89	-17.95	3.48	15	43.04	42.83
1750	50.78	-2.94	3.34	1.19	3.34	-17.96	2.94	0	43.34	43.13
1760	49.33	-3.07	3.05	0.9	3.05	-21.16	3.07	0	43.47	43.24
1770	46.02	-3.37	2.44	0.29	2.44	-20.92	3.37	0	43.46	43.23
1780	44.28	-3.54	1.87	-0.28	1.87	-19.21	3.54	0	43.43	43.19
1790	41.42	-3.83	1.81	-0.34	1.81	-23.2	3.83	0	43.24	42.93
1800	39.21	-4.07	1.67	-0.48	1.67	-23.59	4.07	0	43.22	42.83
1810	40.04	-3.97	1.67	-0.48	1.67	-23.58	3.97	0	43.51	43.1
1820	42.98	-3.67	2.05	-0.1	2.05	-20.76	3.67	0	43.48	43.11
1830	42.28	-3.74	2.24	0.09	2.24	-20.08	3.74	0	43.51	43.14

1840	42.16	-3.75	2.5	0.35	2.5	-23.47	3.75	0	43.51	43.17
1850	44.75	-3.49	2.91	0.76	2.91	-23.8	3.49	0	43.63	43.35
1860	44.23	-3.54	2.95	0.8	2.95	-21.47	3.54	0	43.69	43.39
1870	45.78	-3.39	3.14	0.99	3.14	-23.81	3.39	0	43.56	43.27
1880	45	-3.47	3.05	0.9	3.05	-24.41	3.47	0	43.65	43.38
1890	42.89	-3.68	2.87	0.72	2.87	-22.68	3.68	0	43.67	43.34
1900	43.5	-3.61	2.93	0.78	2.93	-25.05	3.61	0	43.64	43.41
1910	39.94	-3.99	2.45	0.3	2.45	-23	3.99	0	43.69	43.44
1920	35.65	-4.48	1.86	-0.29	1.86	-23.29	4.48	0	43.79	43.57
1930	31.99	-4.95	1.34	-0.81	1.34	-24.87	4.95	0	43.89	43.65
1940	28.31	-5.48	1.08	-1.07	1.08	-24.62	5.48	0	43.87	43.66
1950	21.54	-6.67	0.14	-2.01	0.14	-25.1	6.67	0	43.95	43.7
1960	18.72	-7.28	-0.34	-2.49	-0.34	-24.3	7.28	0	43.94	43.69
1970	18.42	-7.35	-0.18	-2.33	-0.18	-22.71	7.35	0	44.09	43.96
1980	13.18	-8.8	-1.63	-3.78	-1.63	-22.79	8.8	0	44.17	43.95
1990	14.06	-8.52	-1.66	-3.81	-1.66	-23.08	8.52	0	44.2	44.06
2000	14.01	-8.54	-1.94	-4.09	-1.94	-24.77	8.54	0	44.57	44.42
2010	10.81	-9.66	-3.25	-5.4	-3.25	-28.83	9.66	15	44.69	44.52
2020	11.24	-9.49	-2.97	-5.12	-2.97	-30.19	9.49	15	44.86	44.78
2030	12.8	-8.93	-2.2	-4.35	-2.2	-35.13	8.93	30	45.04	44.98
2040	11.57	-9.37	-2.58	-4.73	-2.58	-29.21	9.37	30	45.12	45.07
2050	11.6	-9.35	-2.64	-4.79	-2.64	-32.03	9.35	30	45.01	44.95
2060	15.46	-8.11	-1.5	-3.65	-1.5	-30.85	8.11	30	45.26	45.2
2070	13.45	-8.71	-2.23	-4.38	-2.23	-31.2	8.71	30	45.22	45.06
2080	15.17	-8.19	-1.83	-3.98	-1.83	-32.44	8.19	30	45.28	45.12
2090	20.08	-6.97	-0.72	-2.87	-0.72	-32.14	6.97	60	45.5	45.36
2100	20.53	-6.88	-0.7	-2.85	-0.7	-29.55	6.88	60	45.71	45.51
2110	16.83	-7.74	-1.68	-3.83	-1.68	-32.15	7.74	0	44.31	44.12
2120	19.72	-7.05	-1.16	-3.31	-1.16	-29.12	7.05	60	44.53	44.39
2130	21.04	-6.77	-1.12	-3.27	-1.12	-27.4	6.77	60	44.47	44.28
2140	21.93	-6.59	-1.03	-3.18	-1.03	-25.59	6.59	60	44.41	44.26
2150	26.96	-5.69	-0.08	-2.23	-0.08	-24.21	5.69	60	44.38	44.31
2160	26.84	-5.71	0.04	-2.11	0.04	-22.58	5.71	180	44.5	44.39
2170	26.74	-5.73	0.03	-2.12	0.03	-23.24	5.73	180	44.74	44.7
2180	34.43	-4.63	1.21	-0.94	1.21	-25.7	4.63	165	44.71	44.69
2190	31.25	-5.05	0.93	-1.22	0.93	-26.98	5.05	165	45	44.95
2200	32.8	-4.84	1.33	-0.82	1.33	-25.59	4.84	180	45.09	45.01
2210	35.92	-4.45	1.91	-0.24	1.91	-23.78	4.45	15	45.12	45.08
2220	33.73	-4.72	1.77	-0.38	1.77	-24.27	4.72	15	45.26	45.2
2230	32.92	-4.83	1.76	-0.39	1.76	-24.43	4.83	0	45.26	45.17
2240	34.38	-4.64	1.97	-0.18	1.97	-23.41	4.64	0	45.48	45.44
2250	36.01	-4.44	2.09	-0.06	2.09	-26.92	4.44	0	45.26	45.18
2260	33.19	-4.79	1.61	-0.54	1.61	-27.22	4.79	15	45.38	45.33
2270	38.29	-4.17	2.11	-0.04	2.11	-27.6	4.17	30	45.65	45.67

2280	38.23	-4.18	1.97	-0.18	1.97	-29.13	4.18	15	45.53	45.52
2290	35.93	-4.45	1.63	-0.52	1.63	-32.29	4.45	15	45.9	45.86
2300	43.03	-3.66	2.4	0.25	2.4	-28.66	3.66	15	45.79	45.81
2310	41.57	-3.81	2.47	0.32	2.47	-27.08	3.81	30	45.95	45.82
2320	41.81	-3.79	2.6	0.45	2.6	-26.09	3.79	30	45.96	45.9
2330	47.54	-3.23	3.42	1.27	3.42	-23.72	3.23	0	46.17	46.12
2340	45.91	-3.38	3.55	1.4	3.55	-21.68	3.38	0	46.36	46.27
2350	43.93	-3.57	3.58	1.43	3.58	-24.56	3.57	30	46.31	46.27
2360	46.04	-3.37	3.96	1.81	3.96	-23.61	3.37	30	46.38	46.32
2370	45.24	-3.45	4.04	1.89	4.04	-24.24	3.45	30	46.32	46.3
2380	40.25	-3.95	3.57	1.42	3.57	-25.03	3.95	30	46.45	46.33
2390	43.84	-3.58	3.86	1.71	3.86	-26.85	3.58	30	46.66	46.66
2400	40.12	-3.97	3.33	1.18	3.33	-26.28	3.97	30	46.78	46.66
2410	35.24	-4.53	2.56	0.41	2.56	-27.67	4.53	30	46.54	46.47
2420	41.05	-3.87	3.05	0.9	3.05	-25.79	3.87	30	46.78	46.77
2430	37.41	-4.27	2.52	0.37	2.52	-25.93	4.27	30	46.65	46.52
2440	34.22	-4.66	2	-0.15	2	-27.91	4.66	30	46.79	46.73
2450	38.79	-4.11	2.4	0.25	2.4	-28.07	4.11	30	46.92	46.83
2460	37.2	-4.29	2.01	-0.14	2.01	-28.6	4.29	30	47.02	46.93
2470	33.1	-4.8	1.25	-0.9	1.25	-27.29	4.8	15	46.82	46.7
2480	38.41	-4.16	1.65	-0.5	1.65	-24.46	4.16	15	47.15	47.03
2490	40.39	-3.94	1.76	-0.39	1.76	-23.9	3.94	15	47.25	47.04
2500	35.04	-4.55	1.02	-1.13	1.02	-24.28	4.55	30	47.08	46.9
2510	37.42	-4.27	1.18	-0.97	1.18	-24.62	4.27	30	47.12	46.99
2520	37.4	-4.27	1.09	-1.06	1.09	-25.49	4.27	30	46.86	46.73
2530	38.35	-4.16	1.03	-1.12	1.03	-25.65	4.16	0	46.86	46.77
2540	39.58	-4.03	0.98	-1.17	0.98	-25.87	4.03	0	46.67	46.65
2550	37.41	-4.27	0.58	-1.57	0.58	-23.5	4.27	0	46.89	46.85
2560	40.42	-3.93	0.81	-1.34	0.81	-21.25	3.93	0	46.64	46.58
2570	41.74	-3.79	0.98	-1.17	0.98	-21.82	3.79	0	46.93	46.95
2580	43.96	-3.57	1.3	-0.85	1.3	-23.06	3.57	0	46.92	46.77
2590	44.79	-3.49	1.47	-0.68	1.47	-22.38	3.49	0	46.68	46.61
2600	43.86	-3.58	1.44	-0.71	1.44	-21.37	3.58	0	47.08	46.99
2610	51.97	-2.84	2.21	0.06	2.21	-22.14	2.84	0	46.94	46.85
2620	46.85	-3.29	1.73	-0.42	1.73	-23.19	3.29	0	46.88	46.79
2630	51.08	-2.92	2.22	0.07	2.22	-22.42	2.92	0	47.1	47.01
2640	60.48	-2.18	3.16	1.01	3.16	-19.94	2.18	225	47.49	47.35
2650	57.44	-2.41	3.12	0.97	3.12	-17.99	2.41	225	47.39	47.27
2660	64.54	-1.9	3.79	1.64	3.79	-15.43	1.9	195	47.66	47.54
2670	63.16	-2	3.94	1.79	3.94	-14.37	2	195	47.76	47.6
2680	66.96	-1.74	4.41	2.26	4.41	-14.39	1.74	195	47.81	47.7
2690	66.59	-1.77	4.65	2.5	4.65	-14.57	1.77	240	47.82	47.71

Frequency	3D	E1	E2	H
690MHz	700.000MHz 	700.000MHz E1 	700.000MHz E2 	700.000MHz 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 
2690MHz	2690.000MHz 	2690.000MHz E1 	2690.000MHz E2 	2690.000MHz 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.