

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 GSM.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	824-960 MHz 1710-2170MHz
Input Impedance	50 Ω

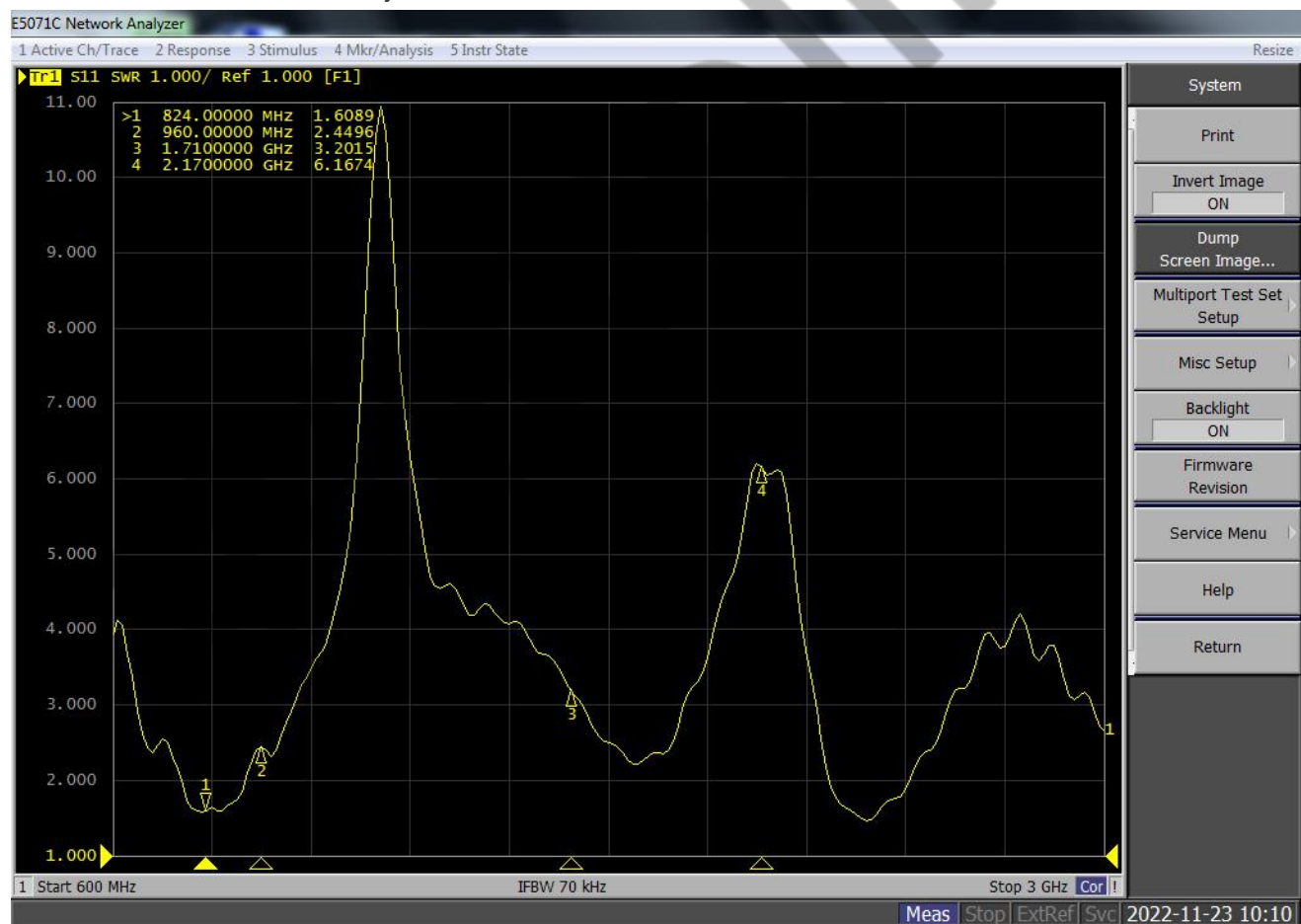
VSWR	≤ 4
Gain	≤ 4 dBi
Polarization Type	Linear

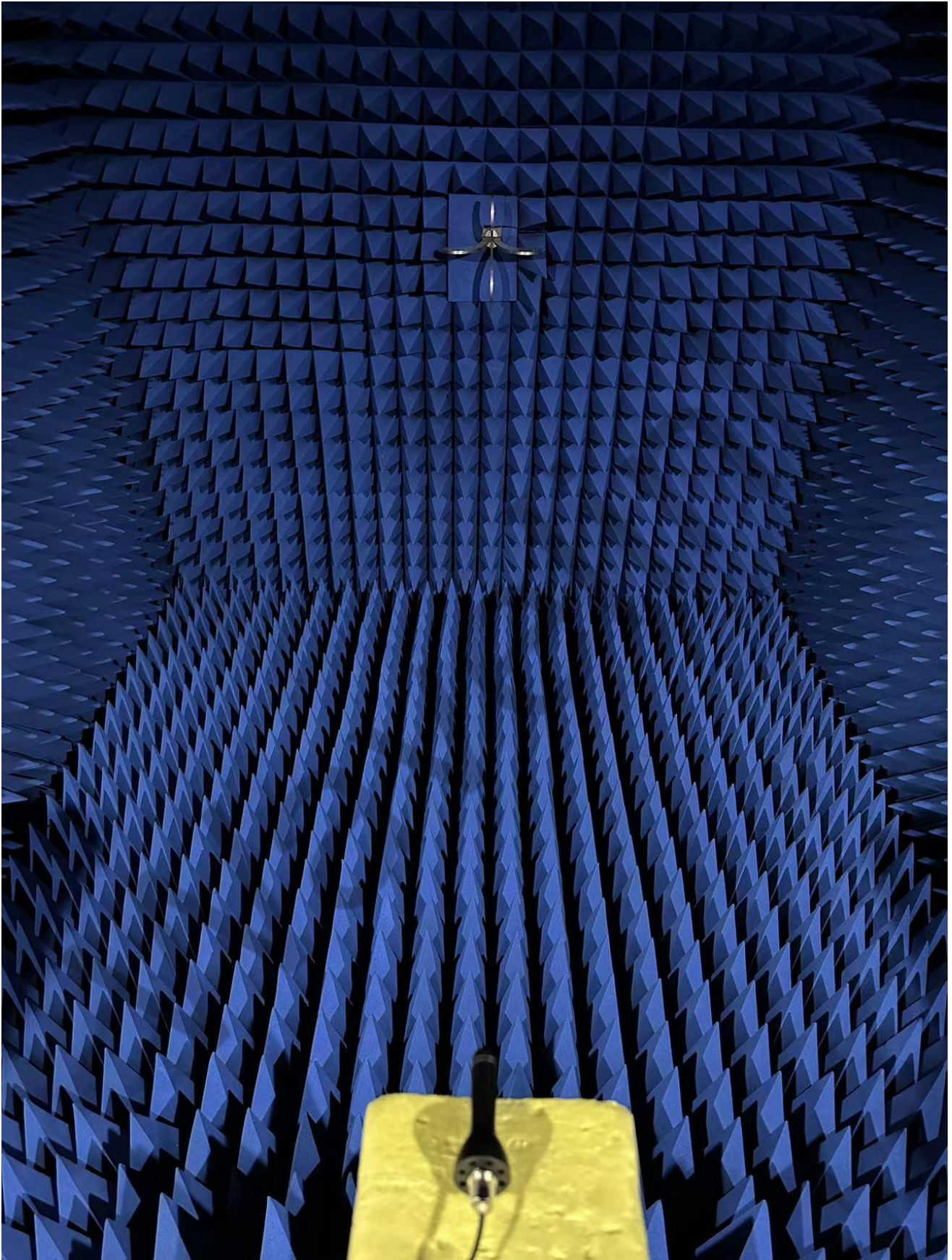
Mechanical Specifications

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

4 Overall Performance

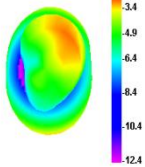
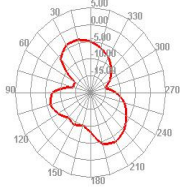
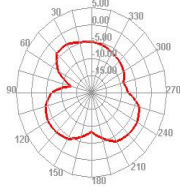
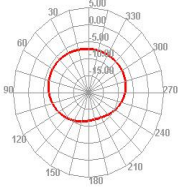
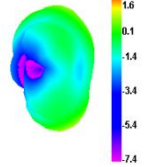
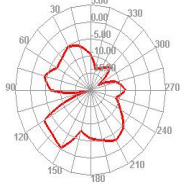
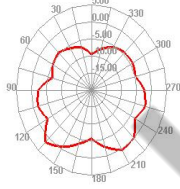
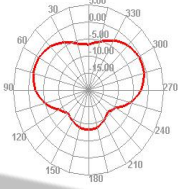
KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz



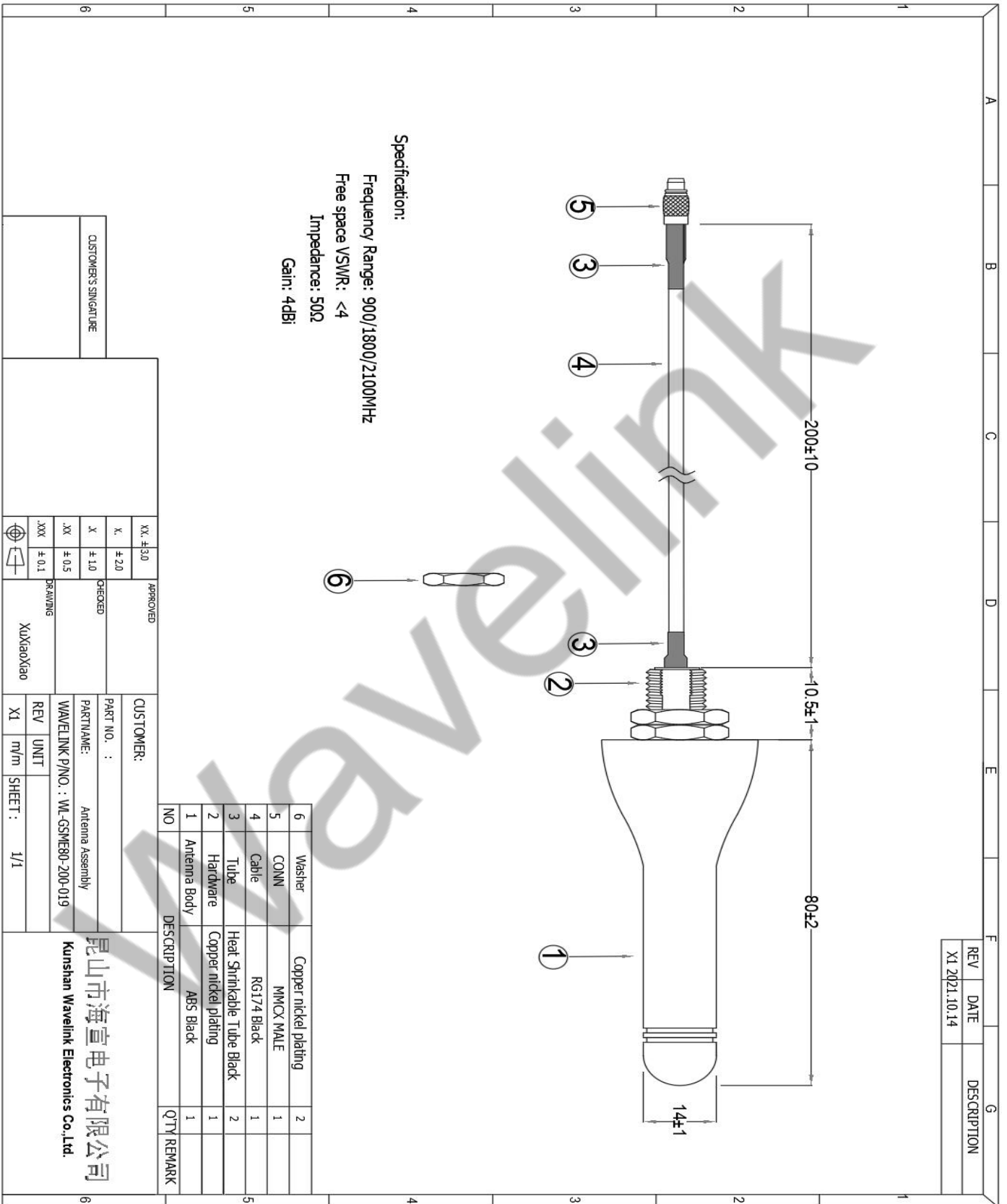


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
820	14.13	-8.5	-4.75	-6.9	-4.75	-24.42	3.75	37.56	37.65
830	16.04	-7.95	-4.02	-6.17	-4.02	-23.43	3.93	38.01	38.02
840	15.26	-8.17	-4.58	-6.73	-4.58	-22.45	3.59	37.66	37.69
850	16.64	-7.79	-4.15	-6.3	-4.15	-20.52	3.64	37.95	37.95
860	20.19	-6.95	-3.27	-5.42	-3.27	-18.1	3.68	38.46	38.51
870	19.96	-7	-3.46	-5.61	-3.46	-17.7	3.54	38.56	38.57
880	20.55	-6.87	-3.23	-5.38	-3.23	-16.46	3.64	39.13	39.13
890	24.64	-6.08	-2.18	-4.33	-2.18	-15.49	3.91	39.4	39.39
900	23.67	-6.26	-2.44	-4.59	-2.44	-15.44	3.82	39.82	39.71
910	26.02	-5.85	-2.03	-4.18	-2.03	-15.66	3.81	40.04	39.93
920	26.45	-5.78	-2.02	-4.17	-2.02	-16.42	3.76	40.17	40.07
930	26.85	-5.71	-1.96	-4.11	-1.96	-17.66	3.75	40.36	40.22
940	29.82	-5.25	-1.48	-3.63	-1.48	-19.83	3.77	40.37	40.21
950	28.92	-5.39	-1.41	-3.56	-1.41	-21.02	3.98	40.51	40.23
960	30.61	-5.14	-1.08	-3.23	-1.08	-22.13	4.06	40.26	39.96
1710	27.69	-5.58	1.02	-1.13	1.02	-16.98	6.6	42.41	42.5
1720	28.59	-5.44	1.1	-1.05	1.1	-17.58	6.54	42.24	42.31
1730	29.46	-5.31	1.31	-0.84	1.31	-18.41	6.62	42.06	42.19
1740	33.43	-4.76	1.78	-0.37	1.78	-17.92	6.54	42.71	42.9
1750	35.2	-4.53	2.05	-0.1	2.05	-17.96	6.58	42.75	42.88
1760	36.47	-4.38	2.16	0.01	2.16	-18.57	6.54	42.78	42.9
1770	38.07	-4.19	2.39	0.24	2.39	-18.72	6.58	42.99	43.01
1780	39.59	-4.02	2.54	0.39	2.54	-19.59	6.57	42.84	42.92
1790	36.92	-4.33	2.27	0.12	2.27	-20.06	6.6	42.72	42.8
1800	39.4	-4.05	2.6	0.45	2.6	-19.96	6.65	42.62	42.74
1810	39.06	-4.08	2.59	0.44	2.59	-19.31	6.68	42.94	43.1
1820	40.69	-3.91	2.86	0.71	2.86	-17.93	6.76	42.81	42.89
1830	40.79	-3.89	2.91	0.76	2.91	-20.42	6.8	42.95	42.99
1840	42.25	-3.74	3.19	1.04	3.19	-20.55	6.94	43.3	43.22
1850	42.3	-3.74	3.26	1.11	3.26	-18.82	6.99	43.34	43.21
1860	42.18	-3.75	3.25	1.1	3.25	-16.32	6.99	43.55	43.42
1870	43.79	-3.59	3.29	1.14	3.29	-17.71	6.88	43.39	43.24
1880	43.18	-3.65	3.15	1	3.15	-19.41	6.79	43.41	43.26
1890	39.76	-4.01	2.78	0.63	2.78	-20.12	6.78	43.39	43.23
1900	41.89	-3.78	3.06	0.91	3.06	-18.24	6.84	43.4	43.23
1910	40.47	-3.93	2.98	0.83	2.98	-17.55	6.9	43.53	43.29
1920	41.21	-3.85	3.18	1.03	3.18	-17.4	7.03	43.68	43.56
1930	44.61	-3.51	3.58	1.43	3.58	-18.07	7.08	43.82	43.66
1940	39.64	-4.02	3.03	0.88	3.03	-21.01	7.05	43.64	43.54
1950	42.04	-3.76	3.21	1.06	3.21	-23.3	6.97	43.69	43.62
1960	39.3	-4.06	2.85	0.7	2.85	-23.06	6.91	43.61	43.5

1970	42.66	-3.7	3.15	1	3.15	-20.81	6.85	43.6	43.5
1980	39.63	-4.02	2.8	0.65	2.8	-19.27	6.82	43.65	43.62
1990	40.73	-3.9	2.9	0.75	2.9	-17.44	6.8	43.8	43.76
2000	42.49	-3.72	3.05	0.9	3.05	-15.85	6.77	44.07	44.09
2010	43.17	-3.65	3.07	0.92	3.07	-16.28	6.72	44.5	44.61
2020	45.41	-3.43	3.22	1.07	3.22	-16.1	6.65	44.48	44.56
2030	44.19	-3.55	3.01	0.86	3.01	-16.13	6.55	44.6	44.76
2040	41.68	-3.8	2.64	0.49	2.64	-16.03	6.44	44.55	44.67
2050	43.16	-3.65	2.71	0.56	2.71	-15.89	6.36	44.46	44.6
2060	40.39	-3.94	2.33	0.18	2.33	-16.1	6.27	44.56	44.67
2070	41.64	-3.8	2.42	0.27	2.42	-15.53	6.22	44.55	44.64
2080	39.3	-4.06	2.12	-0.03	2.12	-15.48	6.18	44.51	44.7
2090	36.89	-4.33	1.84	-0.31	1.84	-15.1	6.17	44.47	44.66
2100	35.79	-4.46	1.67	-0.48	1.67	-14.85	6.13	44.59	44.83
2110	31.27	-5.05	1.03	-1.12	1.03	-14.67	6.08	44.8	44.98
2120	33.55	-4.74	1.21	-0.94	1.21	-13.55	5.95	44.86	45.02
2130	29.67	-5.28	0.56	-1.59	0.56	-13.84	5.84	44.83	44.9
2140	25.55	-5.93	-0.23	-2.38	-0.23	-14.24	5.69	44.8	44.9
2150	22.38	-6.5	-0.96	-3.11	-0.96	-14.26	5.54	44.91	45
2160	18.55	-7.32	-1.92	-4.07	-1.92	-14.37	5.39	44.83	44.89
2170	16.33	-7.87	-2.63	-4.78	-2.63	-15.15	5.24	45.01	45.18

Frequency	3D	E1	E2	H
900MHz	900.000MHz 	900.000MHz E1 	900.000MHz E2 	900.000MHz H 
1800MHz	1800.000MHz 	1800.000MHz E1 	1800.000MHz E2 	1800.000MHz 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.