

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 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	824-960 MHz 1710-2690MHz
Input Impedance	50 Ω

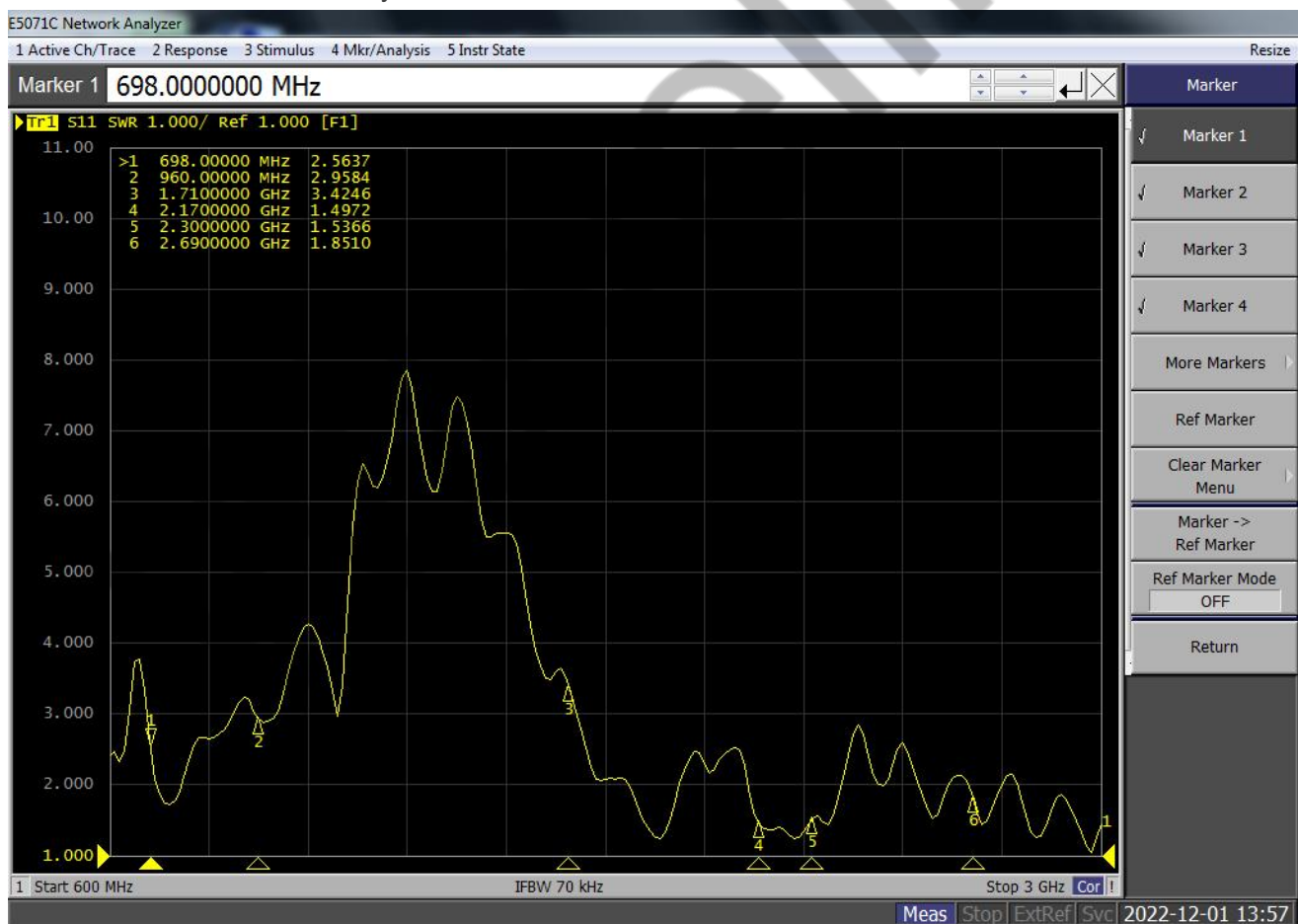
VSWR	≤ 4
Gain	≤ 3 dBi
Polarization Type	Linear

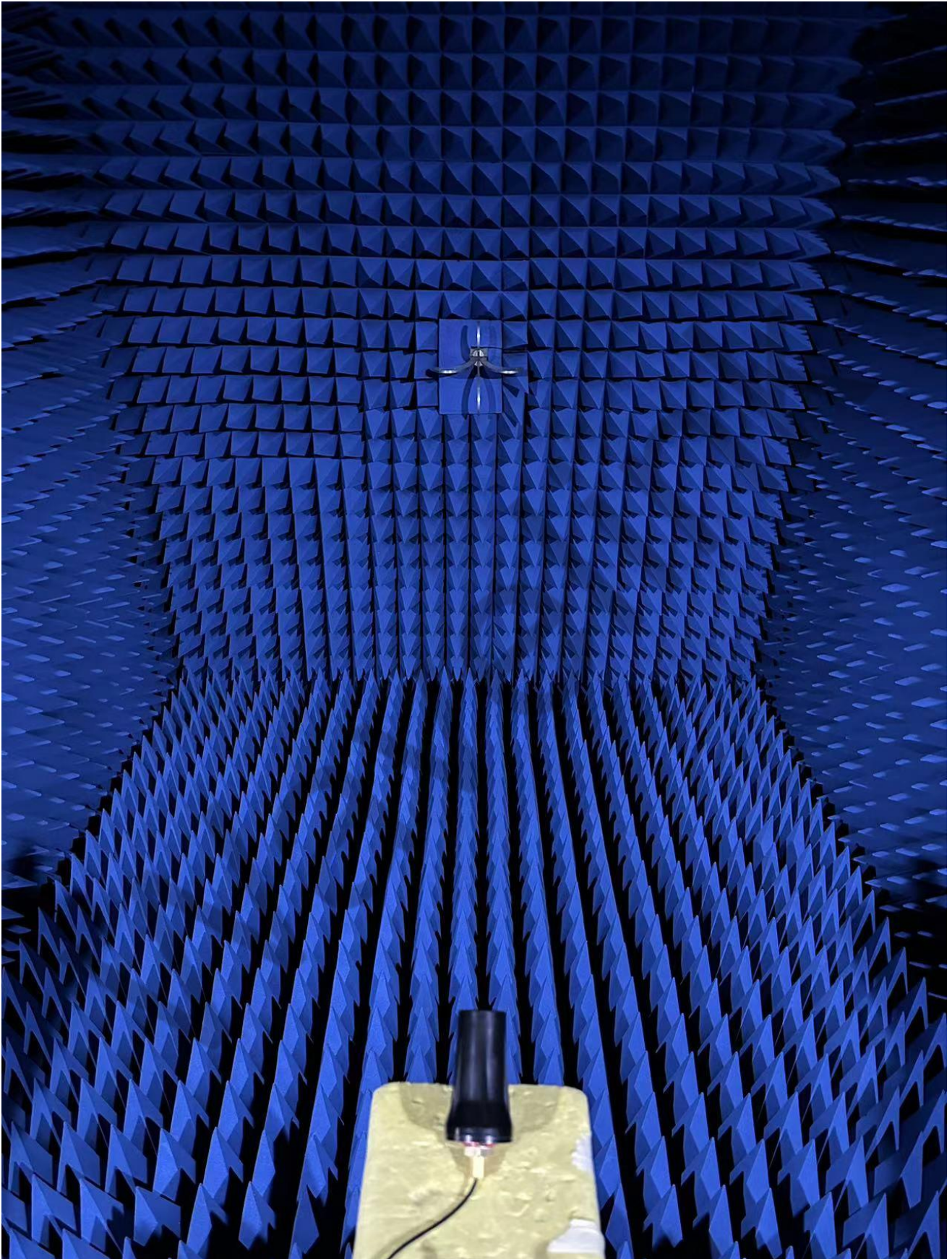
Mechanical Specifications

Antenna Size	75mm ×45mm
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

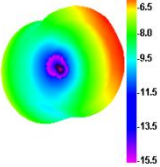
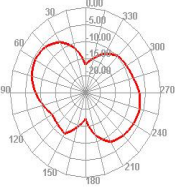
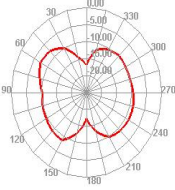
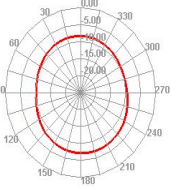
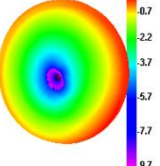
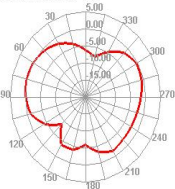
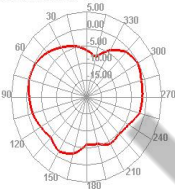
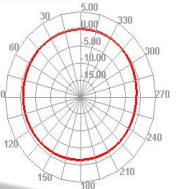
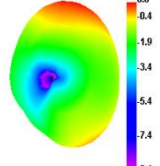
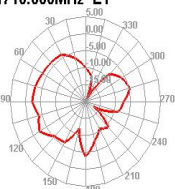
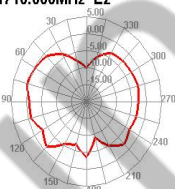
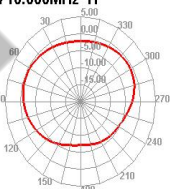
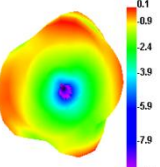
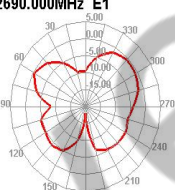
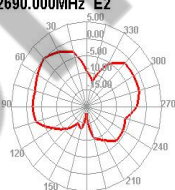
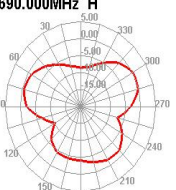




Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
820	13.21	-8.79	-5.48	-7.63	-5.48	-17.29	3.31	37.56	37.65
830	19.27	-7.15	-3.67	-5.82	-3.67	-15.35	3.48	38.01	38.02
840	21.32	-6.71	-3.29	-5.44	-3.29	-14.1	3.42	37.66	37.69
850	25.99	-5.85	-2.69	-4.84	-2.69	-12.76	3.16	37.95	37.95
860	35.16	-4.54	-1.62	-3.77	-1.62	-11.18	2.92	38.46	38.51
870	37.94	-4.21	-1.63	-3.78	-1.63	-11.1	2.58	38.56	38.57
880	44.64	-3.5	-1.21	-3.36	-1.21	-10.9	2.3	39.13	39.13
890	54.16	-2.66	-0.41	-2.56	-0.41	-10.5	2.25	39.4	39.39
900	58.55	-2.32	0.32	-1.83	0.32	-9.81	2.64	39.82	39.71
910	64.91	-1.88	0.96	-1.19	0.96	-8.76	2.83	40.04	39.93
920	68.86	-1.62	1.07	-1.08	1.07	-8.28	2.69	40.17	40.07
930	69.51	-1.58	0.94	-1.21	0.94	-8.73	2.52	40.36	40.22
940	70.01	-1.55	0.82	-1.33	0.82	-8.88	2.37	40.37	40.21
950	68.46	-1.65	0.61	-1.54	0.61	-9.82	2.26	40.51	40.23
960	66.16	-1.79	0.27	-1.88	0.27	-10.25	2.06	40.26	39.96
1700	48.99	-3.1	0.98	-1.17	0.98	-19.03	4.08	42.66	42.74
1710	43.21	-3.64	0.58	-1.57	0.58	-20.12	4.23	42.41	42.5
1720	47.37	-3.24	1.11	-1.04	1.11	-19.43	4.36	42.24	42.31
1730	45.56	-3.41	1.06	-1.09	1.06	-19.52	4.48	42.06	42.19
1740	53.64	-2.7	1.89	-0.26	1.89	-19.3	4.6	42.71	42.9
1750	54.94	-2.6	2.04	-0.11	2.04	-20.44	4.64	42.75	42.88
1760	55.8	-2.53	2.09	-0.06	2.09	-21.8	4.63	42.78	42.9
1770	55.86	-2.53	2.05	-0.1	2.05	-23.52	4.58	42.99	43.01
1780	56.48	-2.48	2.13	-0.02	2.13	-24.71	4.61	42.84	42.92
1790	54	-2.68	1.95	-0.2	1.95	-24.9	4.63	42.72	42.8
1800	50.57	-2.96	1.62	-0.53	1.62	-25.55	4.58	42.62	42.74
1810	56.53	-2.48	1.96	-0.19	1.96	-24.06	4.44	42.94	43.1
1820	49.63	-3.04	1.21	-0.94	1.21	-22.62	4.25	42.81	42.89
1830	48.69	-3.13	1.19	-0.96	1.19	-21.14	4.31	42.95	42.99
1840	51.13	-2.91	1.47	-0.68	1.47	-20.38	4.38	43.3	43.22
1850	49.51	-3.05	1.37	-0.78	1.37	-19.03	4.42	43.34	43.21
1860	48.19	-3.17	1.27	-0.88	1.27	-17.53	4.44	43.55	43.42
1870	48.15	-3.17	1.24	-0.91	1.24	-16.24	4.42	43.39	43.24
1880	47.53	-3.23	1.41	-0.74	1.41	-16.95	4.64	43.41	43.26
1890	47.39	-3.24	1.68	-0.47	1.68	-16.49	4.92	43.39	43.23
1900	48.21	-3.17	1.99	-0.16	1.99	-15.45	5.16	43.4	43.23
1910	47.77	-3.21	2.13	-0.02	2.13	-16.28	5.34	43.53	43.29
1920	48.74	-3.12	2.31	0.16	2.31	-15.58	5.43	43.68	43.56
1930	50.69	-2.95	2.51	0.36	2.51	-14.85	5.46	43.82	43.66
1940	47.63	-3.22	2.19	0.04	2.19	-15.4	5.41	43.64	43.54
1950	49.15	-3.09	2.29	0.14	2.29	-14.93	5.37	43.69	43.62
1960	51.25	-2.9	2.62	0.47	2.62	-14.97	5.53	43.61	43.5

1970	50.73	-2.95	2.68	0.53	2.68	-16.35	5.62	43.6	43.5
1980	51.85	-2.85	2.8	0.65	2.8	-18.52	5.65	43.65	43.62
1990	51.92	-2.85	2.76	0.61	2.76	-19.18	5.6	43.8	43.76
2000	52.43	-2.8	2.68	0.53	2.68	-17.02	5.49	44.07	44.09
2010	53.49	-2.72	2.56	0.41	2.56	-15.4	5.28	44.5	44.61
2020	49.94	-3.02	2	-0.15	2	-16.57	5.01	44.48	44.56
2030	50.45	-2.97	1.96	-0.19	1.96	-17.95	4.93	44.6	44.76
2040	49.09	-3.09	1.79	-0.36	1.79	-16.86	4.88	44.55	44.67
2050	48.11	-3.18	1.61	-0.54	1.61	-14.93	4.79	44.46	44.6
2060	47.64	-3.22	1.48	-0.67	1.48	-14.99	4.7	44.56	44.67
2070	47.03	-3.28	1.4	-0.75	1.4	-19.45	4.68	44.55	44.64
2080	45.52	-3.42	1.15	-1	1.15	-21.57	4.56	44.51	44.7
2090	45.38	-3.43	0.92	-1.23	0.92	-17.47	4.35	44.47	44.66
2100	45.95	-3.38	0.85	-1.3	0.85	-16.08	4.23	44.59	44.83
2110	47.72	-3.21	1.14	-1.01	1.14	-16.8	4.35	44.8	44.98
2120	52.88	-2.77	1.71	-0.44	1.71	-18.24	4.48	44.86	45.02
2130	53.81	-2.69	1.87	-0.28	1.87	-16.83	4.56	44.83	44.9
2140	53.87	-2.69	1.92	-0.23	1.92	-17.66	4.61	44.8	44.9
2150	56.55	-2.48	2.16	0.01	2.16	-18.74	4.64	44.91	45
2160	58.41	-2.34	2.26	0.11	2.26	-19.21	4.59	44.83	44.89
2170	58.35	-2.34	2.18	0.03	2.18	-19.37	4.52	45.01	45.18
2180	61.5	-2.11	2.32	0.17	2.32	-18.7	4.43	45.06	45.22
2190	63.7	-1.96	2.43	0.28	2.43	-19.74	4.39	45.13	45.29
2200	60.07	-2.21	2.16	0.01	2.16	-21.72	4.37	45.1	45.33
2210	61.7	-2.1	2.3	0.15	2.3	-21.7	4.4	45.19	45.35
2220	57.86	-2.38	1.98	-0.17	1.98	-20.64	4.35	44.99	45.17
2230	56.87	-2.45	1.78	-0.37	1.78	-22.88	4.23	45.09	45.33
2240	55.85	-2.53	1.55	-0.6	1.55	-23.04	4.08	45.1	45.21
2250	55.75	-2.54	1.55	-0.6	1.55	-21.53	4.09	45.14	45.27
2260	55.89	-2.53	1.51	-0.64	1.51	-20.5	4.03	45.29	45.37
2270	57.17	-2.43	1.51	-0.64	1.51	-19.91	3.93	45.28	45.33
2280	56.17	-2.5	1.32	-0.83	1.32	-21.11	3.83	45.38	45.47
2290	55.13	-2.59	1.06	-1.09	1.06	-22.92	3.64	45.34	45.47
2300	54.56	-2.63	0.81	-1.34	0.81	-21.26	3.45	45.37	45.49
2310	52.62	-2.79	0.72	-1.43	0.72	-22.25	3.51	45.4	45.49
2320	51.92	-2.85	0.77	-1.38	0.77	-22.16	3.62	45.55	45.69
2330	52.62	-2.79	0.97	-1.18	0.97	-21.77	3.76	45.64	45.7
2340	53.97	-2.68	1.16	-0.99	1.16	-19.32	3.84	45.87	46
2350	53.2	-2.74	1.11	-1.04	1.11	-17.18	3.85	46.03	46.1
2360	52.16	-2.83	0.96	-1.19	0.96	-16.54	3.79	46.03	46.21
2370	44.96	-3.47	0.23	-1.92	0.23	-17.21	3.7	45.99	46.14
2380	42.21	-3.75	0.16	-1.99	0.16	-16.3	3.9	46.06	46.2
2390	36.12	-4.42	-0.37	-2.52	-0.37	-17.98	4.06	46.15	46.41
2400	34.63	-4.61	-0.51	-2.66	-0.51	-18.39	4.1	46.16	46.3

2410	32.62	-4.87	-0.53	-2.68	-0.53	-18.32	4.34	46.26	46.45
2420	30.46	-5.16	-0.62	-2.77	-0.62	-17.95	4.55	46.15	46.32
2430	32.06	-4.94	-0.44	-2.59	-0.44	-17.03	4.51	46.31	46.44
2440	34.13	-4.67	-0.35	-2.5	-0.35	-15.69	4.31	46.52	46.56
2450	35.65	-4.48	-0.59	-2.74	-0.59	-15.59	3.89	46.77	46.93
2460	33.72	-4.72	-1.44	-3.59	-1.44	-16.13	3.28	46.82	46.89
2470	35.16	-4.54	-1.7	-3.85	-1.7	-19.01	2.84	46.54	46.65
2480	36.89	-4.33	-1.36	-3.51	-1.36	-20.81	2.97	47.04	47.22
2490	36.34	-4.4	-1.01	-3.16	-1.01	-21.19	3.39	46.75	46.82
2500	40.52	-3.92	-0.11	-2.26	-0.11	-17.95	3.81	46.91	47.08
2510	40.43	-3.93	0.21	-1.94	0.21	-15.96	4.14	46.86	46.93
2520	40.55	-3.92	0.51	-1.64	0.51	-15.69	4.43	46.62	46.75
2530	43.06	-3.66	1.01	-1.14	1.01	-15.57	4.67	46.77	46.81
2540	43.81	-3.58	1.26	-0.89	1.26	-15.98	4.84	46.69	46.75
2550	47.65	-3.22	1.82	-0.33	1.82	-15.41	5.04	46.7	46.76
2560	49.96	-3.01	2.19	0.04	2.19	-15.13	5.2	46.78	46.83
2570	52.68	-2.78	2.57	0.42	2.57	-15.68	5.35	46.94	46.98
2580	53.27	-2.74	2.69	0.54	2.69	-16.4	5.43	46.77	46.83
2590	54.71	-2.62	2.85	0.7	2.85	-21.22	5.47	46.97	47.02
2600	52.82	-2.77	2.69	0.54	2.69	-21.41	5.46	46.9	46.97
2610	51.44	-2.89	2.57	0.42	2.57	-20.14	5.45	47.03	47.14
2620	53.74	-2.7	2.69	0.54	2.69	-17.58	5.39	47.28	47.32
2630	47.63	-3.22	1.95	-0.2	1.95	-17.29	5.18	47.28	47.31
2640	46.86	-3.29	1.56	-0.59	1.56	-18.96	4.86	47.26	47.33
2650	44.21	-3.54	0.96	-1.19	0.96	-21.38	4.51	47.34	47.45
2660	40.03	-3.98	0.25	-1.9	0.25	-23.83	4.23	47.07	47.11
2670	43.93	-3.57	0.48	-1.67	0.48	-23.58	4.05	47.24	47.43
2680	44.25	-3.54	0.26	-1.89	0.26	-20.53	3.8	47.43	47.5
2690	45.71	-3.4	0.08	-2.07	0.08	-18.58	3.48	47.34	47.49
2700	43.56	-3.61	-0.06	-2.21	-0.06	-18.34	3.55	47.58	47.8

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 
2690MHz	2690.000MHz 	2690.000MHz E1 	2690.000MHz E2 	2690.000MHz H 

Specification:

Frequency Range: 824-960/1710-2690MHz

Free space VSWR: <4

Impedance: 50Ω

Gain: 3dbi

REV	DATE	DESCRIPTION
X1		

NO	DESCRIPTION	QTY	REMARK
3	CONN	1	
2	Cable	1	
1	Antenna Body	1	

CUSTOMER:	
PART NO. :	
PARTNAME:	
WAVELINK P/NO. :	WL-4GE7545-150
REV	UNIT
X1	m/m
SHEET : 1/1	

XX, ±3.0	APPROVED
X, ±2.0	CHECKED
X, ±1.0	
XX, ±0.5	DRAWING
XX, ±0.1	
⊙	
⊙	

CUSTOMER'S SIGNATURE	

昆山市海宣电子有限公司

Kunshan WaveLink Electronics Co., Ltd.

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.