

# 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:

2nd Floor, Building D, No. 88 Tongqiu Road, Zhangpu Town, Kunshan City, Jiangsu Province, China

Tel: +86-512-57449488

Email: [sales@kswavelink.com](mailto:sales@kswavelink.com)

Wavelink Certifications:



Wavelink Partners:





# Catalogue

1	Product Description .....	3
2	Product Features .....	3
3	Product Specifications .....	3
4	Overall Performance .....	4
5	Product Size .....	9
6	Others .....	10

Wavelink

## 1 Product Description

This wavelink antenna covers WiFi 2.4 and WiFi 5.8.

## 2 Product Features

Easy to install  
High efficiency  
Removable



## 3 Product Specifications

### Passive Electrical Specifications

Frequency Range	2400-2500 MHz 5150-5850MHz
Input Impedance	50 $\Omega$

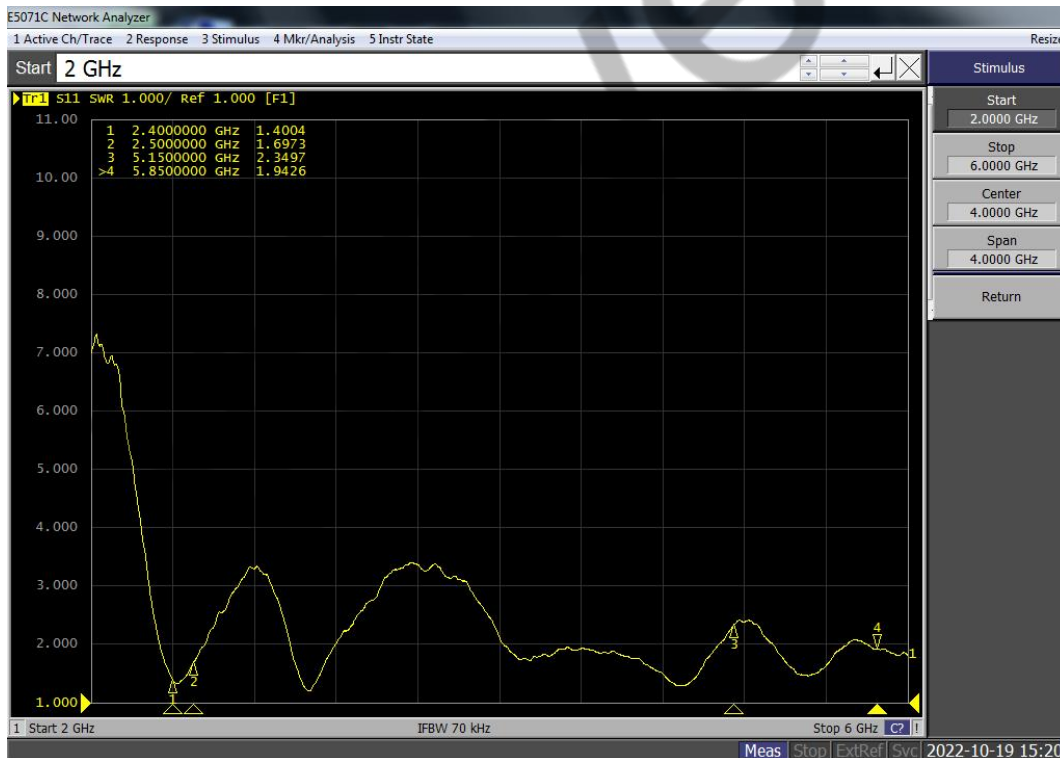
VSWR	≤ 2.5
Gain	≤ 5 dBi
Polarization Type	Linear

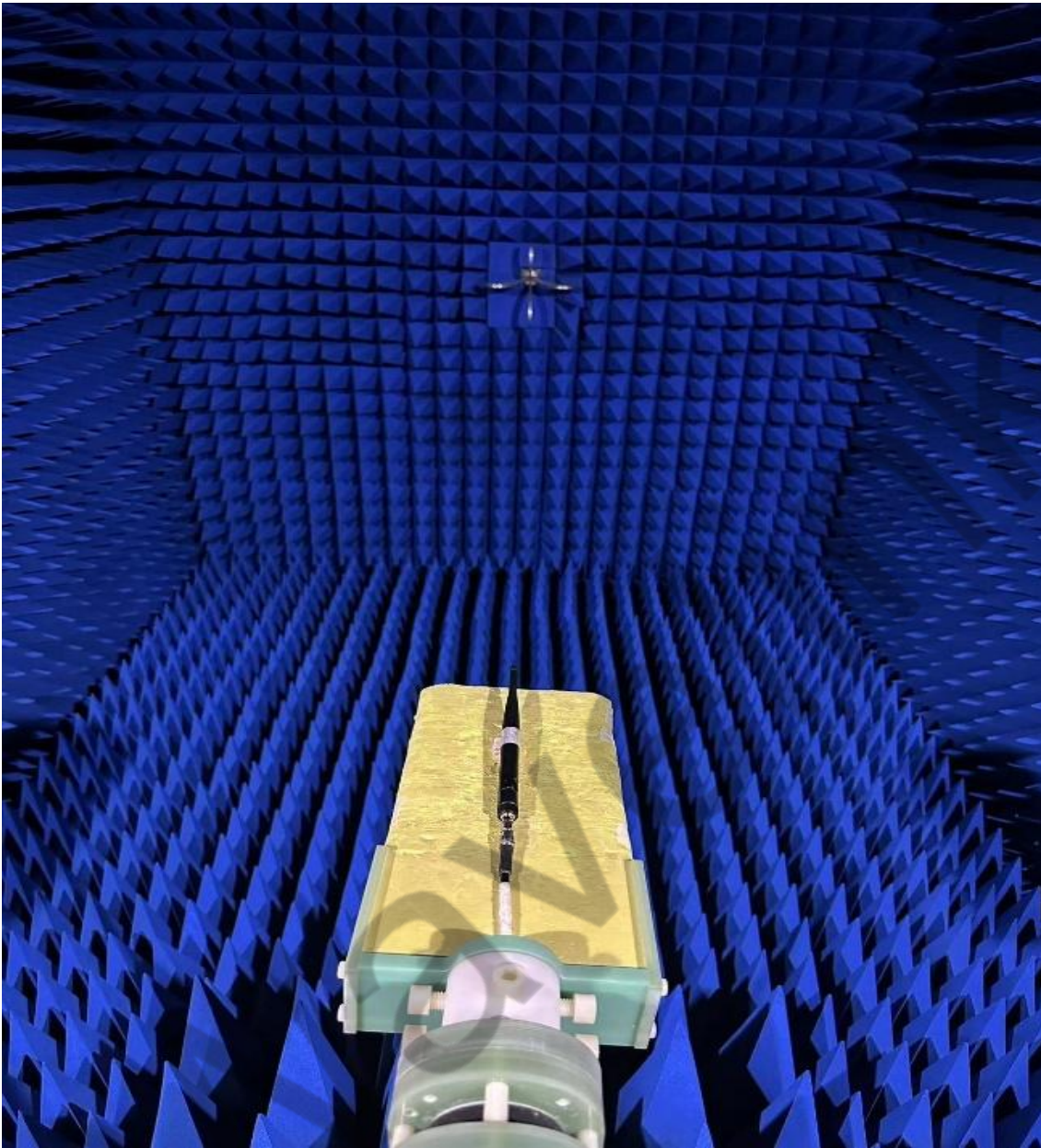
### Mechanical Specifications

Antenna Size	195 mm × 13mm
Casing	Copper tube
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

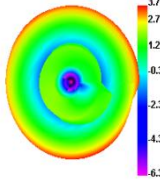
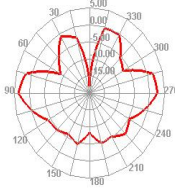
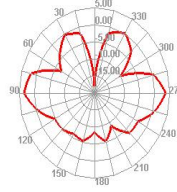
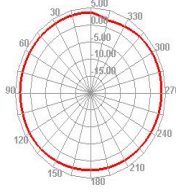
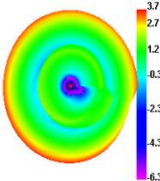
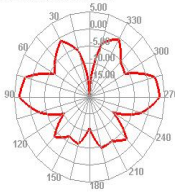
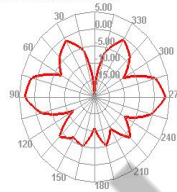
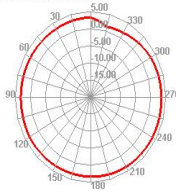
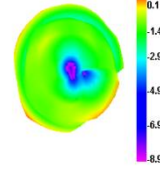
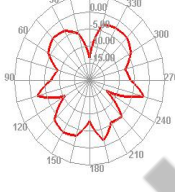
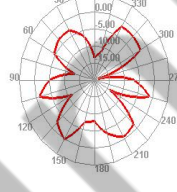
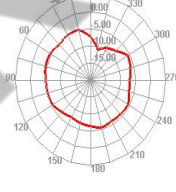
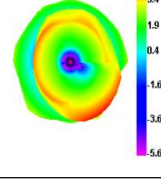
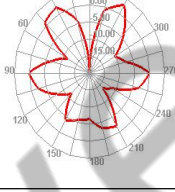
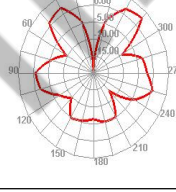
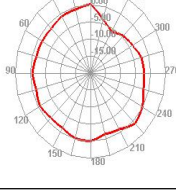






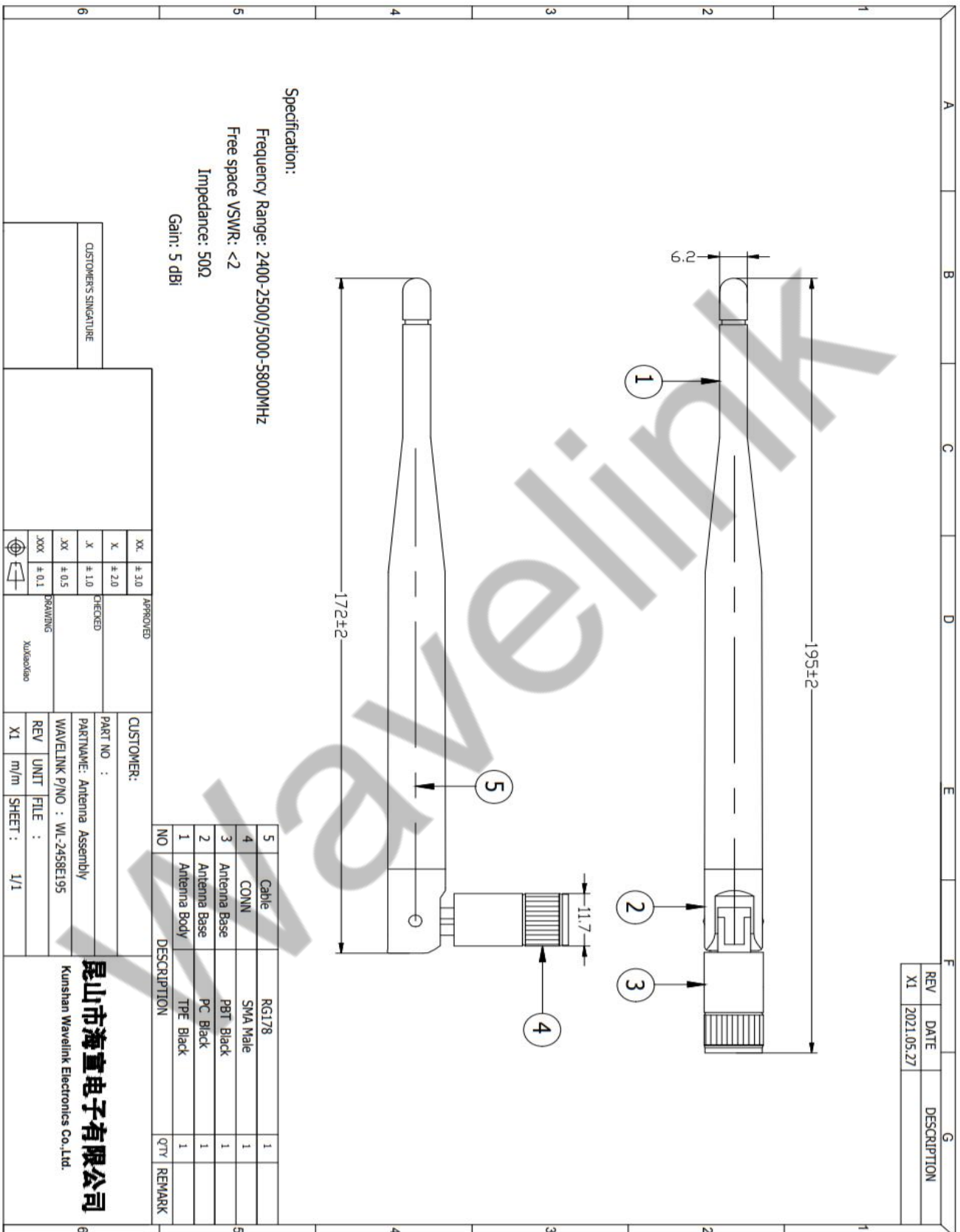
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	79.81	-0.98	3.7	1.55	3.7	-18.19	0.98	15	46.78	46.66
2410	78.41	-1.06	3.69	1.54	3.69	-18.9	1.06	15	46.54	46.47
2420	79.47	-1	3.79	1.64	3.79	-19.13	1	15	46.78	46.77
2430	79.22	-1.01	3.8	1.65	3.8	-18.93	1.01	15	46.65	46.52
2440	80.43	-0.95	3.93	1.78	3.93	-18.2	0.95	15	46.79	46.73
2450	81.92	-0.87	4.09	1.94	4.09	-17.6	0.87	15	46.92	46.83
2460	80.82	-0.92	4.11	1.96	4.11	-17.51	0.92	15	47.02	46.93
2470	75.54	-1.22	3.85	1.7	3.85	-18.24	1.22	15	46.82	46.7
2480	78.5	-1.05	4.02	1.87	4.02	-18.74	1.05	15	47.15	47.03
2490	80.04	-0.97	4.07	1.92	4.07	-19.53	0.97	15	47.25	47.04
2500	74.52	-1.28	3.72	1.57	3.72	-20.52	1.28	15	47.08	46.9
5150	40.24	-3.95	1.07	-1.08	1.07	-18.56	3.95	0	52.43	52.34
5160	40.69	-3.9	1.24	-0.91	1.24	-17.71	3.9	0	52.12	52.18
5170	45.53	-3.42	1.77	-0.38	1.77	-17.36	3.42	0	52.6	52.46
5180	37.82	-4.22	1.06	-1.09	1.06	-17.61	4.22	15	52.05	52.05
5190	39.77	-4	1.22	-0.93	1.22	-17.2	4	15	52.18	52.17
5200	39.31	-4.05	1.19	-0.96	1.19	-16.68	4.05	15	52.5	52.27
5210	41.27	-3.84	1.37	-0.78	1.37	-16.24	3.84	15	52.27	52.38
5220	40.41	-3.94	1.23	-0.92	1.23	-17.73	3.94	15	52.4	52.27
5230	44.28	-3.54	1.65	-0.5	1.65	-18.3	3.54	15	52.24	52.27
5240	44.67	-3.5	1.65	-0.5	1.65	-18.59	3.5	15	52.38	52.3
5250	40.36	-3.94	1.18	-0.97	1.18	-17.8	3.94	15	52.27	52.3
5260	48.1	-3.18	1.86	-0.29	1.86	-15.85	3.18	15	52.58	52.56
5270	47.39	-3.24	1.73	-0.42	1.73	-14.57	3.24	15	52.68	52.73
5280	49.59	-3.05	1.76	-0.39	1.76	-13.54	3.05	15	52.54	52.75
5290	54.54	-2.63	2.07	-0.08	2.07	-13.49	2.63	15	52.86	52.77
5300	51.52	-2.88	1.76	-0.39	1.76	-14.14	2.88	15	52.57	52.74
5310	51.05	-2.92	1.63	-0.52	1.63	-14.56	2.92	15	52.64	52.76
5320	61.41	-2.12	2.37	0.22	2.37	-14.34	2.12	15	53.01	53.1
5330	60.4	-2.19	2.18	0.03	2.18	-15.16	2.19	15	52.84	53.07
5340	58.28	-2.34	2.01	-0.14	2.01	-16.29	2.34	15	52.93	53.13
5350	64.87	-1.88	2.49	0.34	2.49	-17.23	1.88	15	53.1	53.18
5360	61.3	-2.13	2.31	0.16	2.31	-18.65	2.13	15	53.07	53.26
5370	60.21	-2.2	2.26	0.11	2.26	-18.92	2.2	15	53.05	53.27
5380	65.12	-1.86	2.64	0.49	2.64	-18.59	1.86	15	53.13	53.16
5390	58.4	-2.34	2.15	0	2.15	-19.28	2.34	15	52.63	52.77
5400	70.76	-1.5	3	0.85	3	-19.03	1.5	15	53.43	53.58
5410	71.57	-1.45	3.06	0.91	3.06	-19.69	1.45	15	53.54	53.62
5420	70.12	-1.54	2.99	0.84	2.99	-21.15	1.54	15	53.45	53.52
5430	68.34	-1.65	2.96	0.81	2.96	-22.53	1.65	15	53.6	53.75
5440	70.18	-1.54	3.14	0.99	3.14	-22.43	1.54	15	53.9	53.8

5450	73.32	-1.35	3.37	1.22	3.37	-21.66	1.35	15	53.96	53.96
5460	65.54	-1.83	2.98	0.83	2.98	-20.48	1.83	15	54.16	54.21
5470	69.4	-1.59	3.31	1.16	3.31	-19.97	1.59	15	53.92	53.79
5480	67.35	-1.72	3.22	1.07	3.22	-19.51	1.72	15	53.84	53.78
5490	66.07	-1.8	3.18	1.03	3.18	-21.27	1.8	15	53.87	53.89
5500	67.84	-1.69	3.33	1.18	3.33	-23.07	1.69	15	53.87	53.76
5510	63.85	-1.95	3.12	0.97	3.12	-24.8	1.95	15	53.73	53.72
5520	61.67	-2.1	3.02	0.87	3.02	-26.14	2.1	15	53.63	53.68
5530	63.81	-1.95	3.3	1.15	3.3	-25.63	1.95	15	53.99	53.91
5540	61.98	-2.08	3.31	1.16	3.31	-22.96	2.08	15	53.7	53.69
5550	60.3	-2.2	3.27	1.12	3.27	-23.06	2.2	15	53.94	53.98
5560	63.25	-1.99	3.53	1.38	3.53	-23.32	1.99	15	53.96	54.02
5570	62.88	-2.02	3.52	1.37	3.52	-22.14	2.02	15	54.05	53.98
5580	58.64	-2.32	3.18	1.03	3.18	-21.28	2.32	15	54.53	54.71
5590	61.84	-2.09	3.45	1.3	3.45	-19.89	2.09	15	54.27	54.3
5600	57.72	-2.39	3.16	1.01	3.16	-19.42	2.39	0	54.33	54.33
5610	58.73	-2.31	3.23	1.08	3.23	-19.13	2.31	0	54.14	54.42
5620	61.46	-2.11	3.43	1.28	3.43	-19.3	2.11	0	54.12	54.07
5630	57.72	-2.39	3.15	1	3.15	-19.2	2.39	0	53.81	53.96
5640	57.72	-2.39	3.18	1.03	3.18	-18.21	2.39	0	53.97	54.06
5650	59.36	-2.27	3.3	1.15	3.3	-18.87	2.27	0	53.97	54.04
5660	59.71	-2.24	3.37	1.22	3.37	-19.79	2.24	0	53.91	53.96
5670	59.08	-2.29	3.4	1.25	3.4	-20.06	2.29	0	53.95	54.04
5680	62.5	-2.04	3.74	1.59	3.74	-19.05	2.04	0	54.11	54.19
5690	58.9	-2.3	3.58	1.43	3.58	-18.38	2.3	0	54.12	54.05
5700	57.77	-2.38	3.59	1.44	3.59	-17.09	2.38	0	54.07	54.28
5710	60.17	-2.21	3.91	1.76	3.91	-15.85	2.21	0	54.1	54.06
5720	58.95	-2.3	3.94	1.79	3.94	-15.63	2.3	0	54.12	54.09
5730	58.92	-2.3	4.06	1.91	4.06	-15.82	2.3	0	54.19	54.3
5740	61.93	-2.08	4.4	2.25	4.4	-15.57	2.08	0	54.46	54.39
5750	56.89	-2.45	4.16	2.01	4.16	-16.37	2.45	0	54.33	54.22
5760	53.39	-2.73	3.98	1.83	3.98	-17.16	2.73	0	54.29	54.29
5770	56.88	-2.45	4.36	2.21	4.36	-18	2.45	0	54.53	54.36
5780	55.66	-2.54	4.35	2.2	4.35	-19.1	2.54	0	54.48	54.35
5790	52.36	-2.81	4.11	1.96	4.11	-19.48	2.81	0	54.4	54.34
5800	56.12	-2.51	4.42	2.27	4.42	-20.13	2.51	0	54.54	54.37
5810	51.64	-2.87	4.05	1.9	4.05	-21.28	2.87	0	54.38	54.21
5820	52.45	-2.8	4.08	1.93	4.08	-21.18	2.8	0	54.57	54.44
5830	55.85	-2.53	4.34	2.19	4.34	-20.58	2.53	0	54.61	54.45
5840	52.27	-2.82	4.07	1.92	4.07	-22.15	2.82	0	54.67	54.43
5850	55.62	-2.55	4.35	2.2	4.35	-22.64	2.55	0	54.72	54.61

Frequency	3D	E1	E2	H
2400MHz	<b>2400.000MHz</b> 	<b>2400.000MHz E1</b> 	<b>2400.000MHz E2</b> 	<b>2400.000MHz H</b> 
2500MHz	<b>2500.000MHz</b> 	<b>2500.000MHz E1</b> 	<b>2500.000MHz E2</b> 	<b>2500.000MHz H</b> 
5150MHz	<b>5150.000MHz</b> 	<b>5150.000MHz E1</b> 	<b>5150.000MHz E2</b> 	<b>5150.000MHz H</b> 
5850MHz	<b>5850.000MHz</b> 	<b>5850.000MHz E1</b> 	<b>5850.000MHz E2</b> 	<b>5850.000MHz H</b> 



## 5 Product Size



## 6 Others

DESCRIPTION	SPECIFICATION
Temperature /Humidity cycling	<ol style="list-style-type: none"> <li>1, The device under test is kept for 30 mins in an environment with a temperature of -40 °C.</li> <li>2, Kept for 4 Hours in an environment with a temperature of 8cthe conditions are stabilized at room temperature.</li> <li>3, Parts should meet RF spec before and after test.</li> <li>4, No cosmetic problem(No soldering problem;No adhesion problem of glue).</li> </ol>
Temperature Shock	<ol style="list-style-type: none"> <li>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.</li> <li>2, Parts should meet RF spec before and after test.</li> <li>3, No cosmetic problem(No soldering problem; No adhesion problem of glue).</li> </ol>
High Temperature	<ol style="list-style-type: none"> <li>1, Temperature:125 °C, time:1008 hours</li> <li>2, There is no substantial obstruction to air flow across and around the samples, and the samples are not touching each other</li> <li>3, Parts should meet RF spec before and after test.</li> <li>4, No cosmetic problem(No soldering problem; No adhesion problem of glue).</li> </ol>
Salt mist test	<ol style="list-style-type: none"> <li>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.</li> <li>2, Parts should meet RF spec before and after test.</li> <li>3, No visible corrosion. Discoloration accept.</li> </ol>