

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 WIFI2.4G&WIFI5G.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	2400-2500/5150-5850MHz
Input Impedance	50 Ω
VSWR	<4
Gain	<3 dBi

Polarization Type Linear

Mechanical Specifications

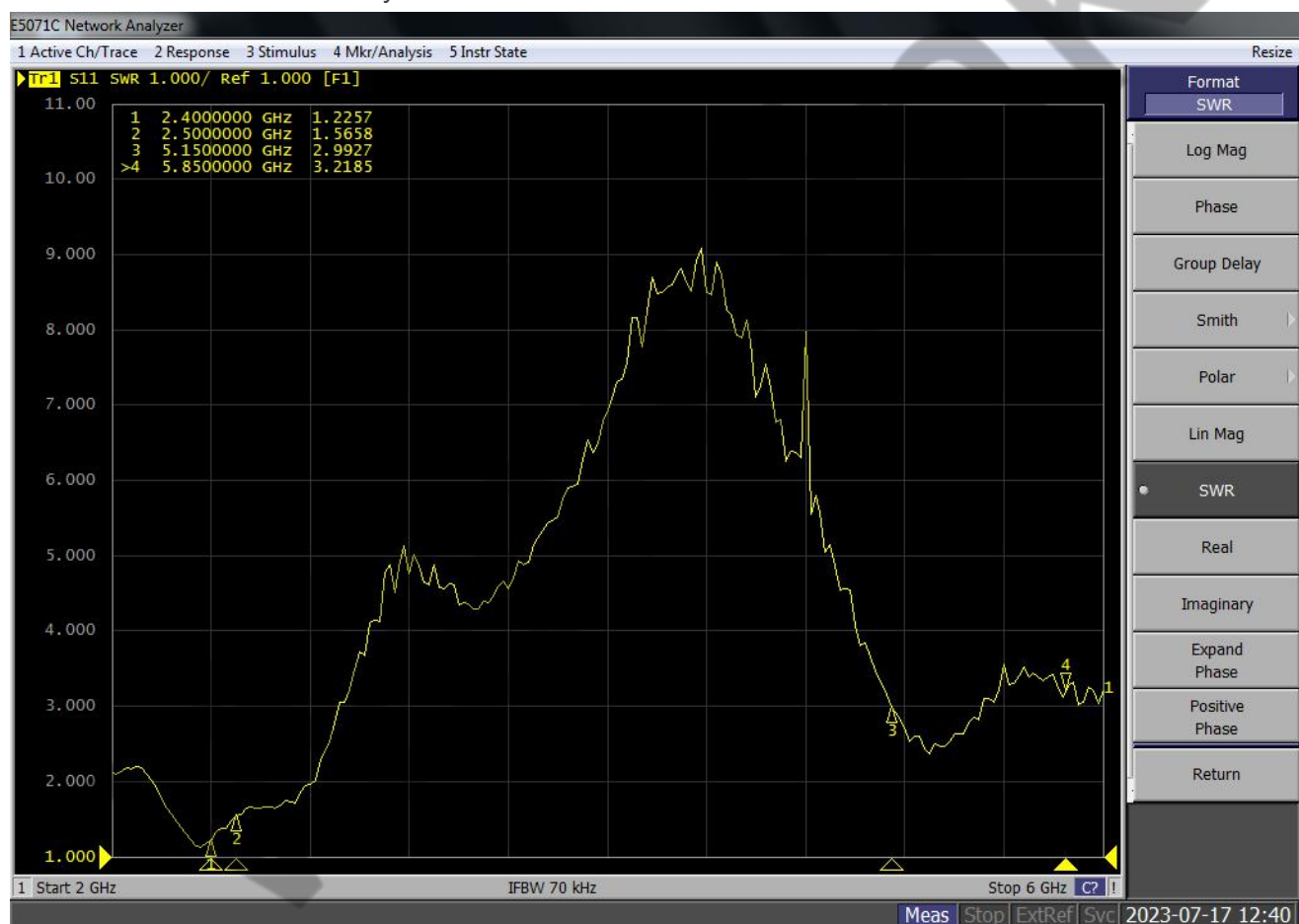
Antenna Size 60mm ×13mm

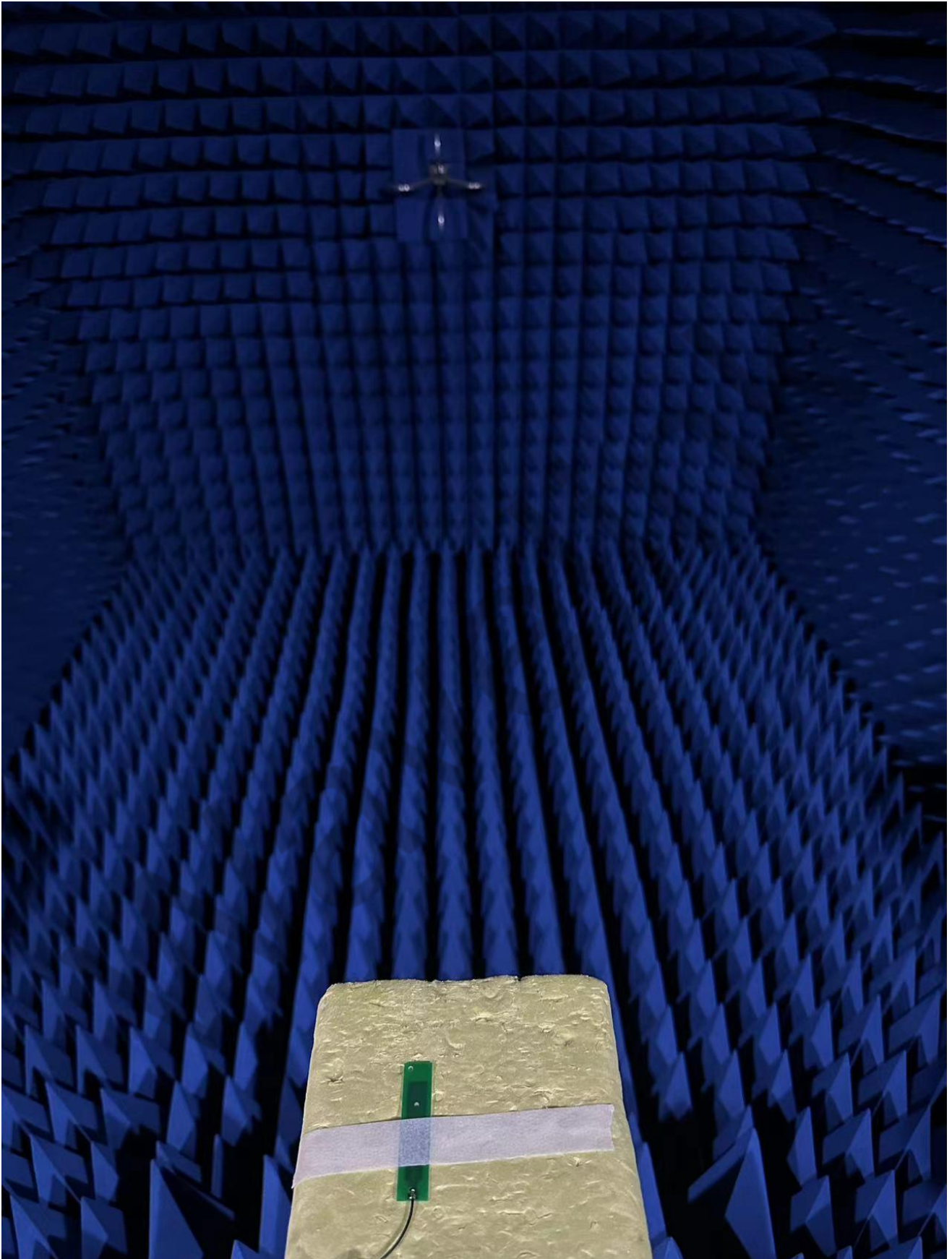
Connector Type I-PEX

Working Temperature -40 °C to +85 °C

4 Overall Performance

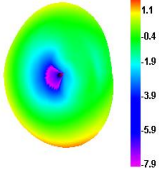
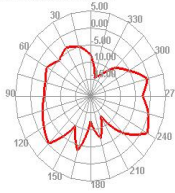
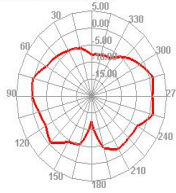
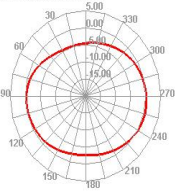
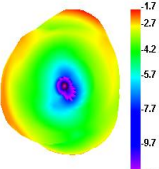
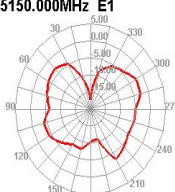
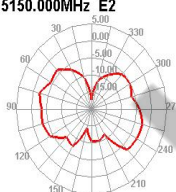
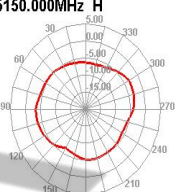
KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz





Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
2400	59.86	-2.23	2.06	-0.09	2.06	-18.97	4.28	46.35	46.49
2410	59.9	-2.23	2.2	0.05	2.2	-19.36	4.42	46.44	46.63
2420	56.2	-2.5	2.03	-0.12	2.03	-17.92	4.53	46.12	46.29
2430	58.15	-2.35	2.14	-0.01	2.14	-16.54	4.5	46.47	46.6
2440	58.18	-2.35	2.07	-0.08	2.07	-14.79	4.42	46.57	46.61
2450	61.55	-2.11	2.18	0.03	2.18	-13.78	4.29	46.91	47.07
2460	61.22	-2.13	2.09	-0.06	2.09	-13.61	4.22	47.02	47.09
2470	60.56	-2.18	2.01	-0.14	2.01	-13.21	4.19	46.72	46.83
2480	62.43	-2.05	2.14	-0.01	2.14	-13.16	4.19	47.29	47.47
2490	62.19	-2.06	2.21	0.06	2.21	-14.65	4.27	46.86	46.93
2500	61.64	-2.1	2.25	0.1	2.25	-15.75	4.35	47.15	47.32
5150	34.39	-4.64	-1.72	-3.87	-1.72	-17.46	2.91	53.11	53.15
5160	33.58	-4.74	-1.9	-4.05	-1.9	-16.95	2.84	53.06	53.3
5170	31.48	-5.02	-2.13	-4.28	-2.13	-16.4	2.89	52.59	52.64
5180	37.2	-4.29	-1.31	-3.46	-1.31	-15.86	2.99	53.37	53.43
5190	33.76	-4.72	-1.74	-3.89	-1.74	-16.88	2.97	52.93	53.06
5200	34.94	-4.57	-1.59	-3.74	-1.59	-17.32	2.97	53.58	53.67
5210	31.72	-4.99	-2.09	-4.24	-2.09	-18.23	2.89	52.6	52.69
5220	32.96	-4.82	-1.93	-4.08	-1.93	-18.09	2.89	53.07	53.26
5230	33.59	-4.74	-1.79	-3.94	-1.79	-17.77	2.95	53.06	53.11
5240	32.42	-4.89	-1.88	-4.03	-1.88	-17.58	3.01	52.81	53.03
5250	33.71	-4.72	-1.57	-3.72	-1.57	-17.46	3.16	53.84	53.92
5260	30.39	-5.17	-2.03	-4.18	-2.03	-18.29	3.14	52.58	52.77
5270	30.27	-5.19	-2.08	-4.23	-2.08	-18.48	3.11	52.82	53.07
5280	31.58	-5.01	-1.94	-4.09	-1.94	-18.33	3.07	52.83	52.96
5290	30.75	-5.12	-2.07	-4.22	-2.07	-18.27	3.05	52.71	53
5300	32.04	-4.94	-1.97	-4.12	-1.97	-18.94	2.97	52.91	53.16
5310	29.65	-5.28	-2.31	-4.46	-2.31	-19.25	2.97	52.47	52.7
5320	31.5	-5.02	-2.06	-4.21	-2.06	-18.78	2.95	52.88	53.13
5330	28.4	-5.47	-2.5	-4.65	-2.5	-18.63	2.97	52.51	52.91
5340	30.23	-5.2	-2.21	-4.36	-2.21	-19.24	2.98	53.15	53.31
5350	30.99	-5.09	-2.06	-4.21	-2.06	-19.4	3.03	53.36	53.72
5360	28.21	-5.5	-2.45	-4.6	-2.45	-20.17	3.05	52.83	53.12
5370	30.44	-5.17	-2.06	-4.21	-2.06	-20.08	3.11	53.42	53.53
5380	26.02	-5.85	-2.66	-4.81	-2.66	-21.91	3.18	52.75	53.12
5390	29.35	-5.32	-2.1	-4.25	-2.1	-22.54	3.22	53.72	53.97
5400	27.6	-5.59	-2.31	-4.46	-2.31	-22.36	3.28	53.62	53.78
5410	28.55	-5.44	-2.18	-4.33	-2.18	-22.47	3.27	53.55	53.89
5420	29.58	-5.29	-2.02	-4.17	-2.02	-21.36	3.27	54.03	54.25
5430	25.09	-6	-2.78	-4.93	-2.78	-22.1	3.22	53.34	53.42
5440	27.42	-5.62	-2.27	-4.42	-2.27	-22.38	3.35	54.05	54.37

5450	24.74	-6.07	-2.65	-4.8	-2.65	-24.16	3.41	54.08	54.06
5460	28.35	-5.47	-1.86	-4.01	-1.86	-23.53	3.62	53.99	54.19
5470	24.78	-6.06	-2.37	-4.52	-2.37	-25.44	3.69	53.93	54.05
5480	25.57	-5.92	-2.18	-4.33	-2.18	-26.29	3.75	53.71	53.78
5490	24.93	-6.03	-2.2	-4.35	-2.2	-27.46	3.83	53.62	53.87
5500	20.6	-6.86	-3.05	-5.2	-3.05	-26.64	3.82	53.59	53.61
5510	25.02	-6.02	-2.22	-4.37	-2.22	-25.44	3.8	53.78	54.03
5520	21.91	-6.59	-2.82	-4.97	-2.82	-25.28	3.77	53.52	53.56
5530	21.61	-6.65	-2.82	-4.97	-2.82	-25.21	3.83	53.41	53.62
5540	21.67	-6.64	-2.73	-4.88	-2.73	-25.52	3.91	53.76	53.83
5550	18.73	-7.28	-3.27	-5.42	-3.27	-26.67	4.01	53.37	53.53
5560	21.8	-6.62	-2.57	-4.72	-2.57	-25.82	4.04	54.52	54.75
5570	19.66	-7.06	-3.01	-5.16	-3.01	-26.54	4.05	53.81	53.84
5580	19.21	-7.16	-3.17	-5.32	-3.17	-26.84	3.99	53.97	54.43
5590	18.4	-7.35	-3.37	-5.52	-3.37	-26.14	3.98	54.3	54.33
5600	16.4	-7.85	-3.86	-6.01	-3.86	-26.76	4	53.55	53.93
5610	17.49	-7.57	-3.59	-5.74	-3.59	-25.13	3.98	54.05	54.4
5620	15.85	-8	-3.88	-6.03	-3.88	-25.72	4.12	53.66	53.75
5630	18.43	-7.35	-3.11	-5.26	-3.11	-25.67	4.24	53.96	54.45
5640	15.83	-8	-3.67	-5.82	-3.67	-27.23	4.33	53.53	53.72
5650	15.94	-7.97	-3.58	-5.73	-3.58	-28.02	4.39	53.54	53.78
5660	16.21	-7.9	-3.51	-5.66	-3.51	-29.68	4.39	53.83	54.23
5670	15.4	-8.12	-3.71	-5.86	-3.71	-29.81	4.41	53.76	53.99
5680	18.95	-7.22	-2.77	-4.92	-2.77	-29.95	4.45	53.92	54.19
5690	15.24	-8.17	-3.73	-5.88	-3.73	-30.39	4.44	53.76	54.11
5700	17.83	-7.49	-3.01	-5.16	-3.01	-31.1	4.48	53.8	54.06
5710	15.91	-7.98	-3.51	-5.66	-3.51	-32.27	4.47	53.74	53.94
5720	16.51	-7.82	-3.34	-5.49	-3.34	-33.47	4.48	53.82	54.07
5730	19.07	-7.2	-2.68	-4.83	-2.68	-33.95	4.52	54.11	54.35
5740	18.09	-7.43	-2.87	-5.02	-2.87	-35.5	4.56	54.08	54.16
5750	19.39	-7.12	-2.57	-4.72	-2.57	-39.21	4.56	54.21	54.49
5760	16.58	-7.81	-3.21	-5.36	-3.21	-43.52	4.59	54.26	54.25
5770	18.42	-7.35	-2.74	-4.89	-2.74	-36.1	4.61	54.35	54.51
5780	18.45	-7.34	-2.72	-4.87	-2.72	-33.83	4.62	54.47	54.56
5790	19.13	-7.18	-2.54	-4.69	-2.54	-30.47	4.64	54.39	54.3
5800	21.38	-6.7	-2.11	-4.26	-2.11	-29.71	4.59	54.58	54.81
5810	18.52	-7.32	-2.63	-4.78	-2.63	-29.66	4.69	54.84	54.64
5820	19.71	-7.05	-2.3	-4.45	-2.3	-28.01	4.75	54.58	54.71
5830	19.48	-7.1	-2.25	-4.4	-2.25	-28.26	4.85	54.44	54.4
5840	19.21	-7.17	-2.2	-4.35	-2.2	-27.53	4.96	54.42	54.29
5850	20.75	-6.83	-1.79	-3.94	-1.79	-26.49	5.05	54.26	54.28

Frequency	3D	E1	E2	H
2400MHz	2400.000MHz 	2400.000MHz E1 	2400.000MHz E2 	2400.000MHz H 
5150MHz	5150.000MHz 	5150.000MHz E1 	5150.000MHz E2 	5150.000MHz H 

5 Product Size

Technical drawing of a WaveLink antenna assembly. The drawing includes a side view of the antenna with dimensions: 150±5mm for the main body, 60±1mm for the mounting bracket, and 13±1mm for the bracket width. Callouts 1, 2, 3, and 4 point to specific components. A detail view of the mounting bracket shows a rectangular plate with a central slot and a circular hole. A BOM table at the bottom lists components: 4 pieces of 60*10mm tape, 3 pieces of 60*13mm PCB Board, 2 pieces of RFL13 Black Cable, and 1 piece of RFL13 Connector. The drawing is titled 'WaveLink' and includes a company logo and name: Kunshan WaveLink Electronics Co., Ltd.

REV	DATE	DESCRIPTION
X1		

NO	DESCRIPTION	QTY	REMARK
4	贴纸	1	
3	PCB Board	1	
2	Cable	1	
1	CONN	1	

Specification:
Frequency Range: 2400-2500/5150-5850MHz
VSWR < 4
Gain: 3 dBi

CUSTOMER: PART NO. :
PARTNAME: WAVELINK P/NO. : WL-2458ID6013-150
REV: XI UNIT: m/m SHEET: 1/1

APPROVED: CHECKED: DRAWING: XX, ±3.0 X, ±2.0 .X, ±1.0 .XX, ±0.5 .XXX, ±0.1

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.