

# 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:





# Catalogue

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## 1 Product Description

This wavelink antenna covers WIFI2.4G.

## 2 Product Features

Easy to install  
High efficiency  
Removable



## 3 Product Specifications

### Passive Electrical Specifications

Frequency Range	2400-2500MHz
Input Impedance	50 $\Omega$
VSWR	<2

Gain <3 dBi

Polarization Type Linear

### Mechanical Specifications

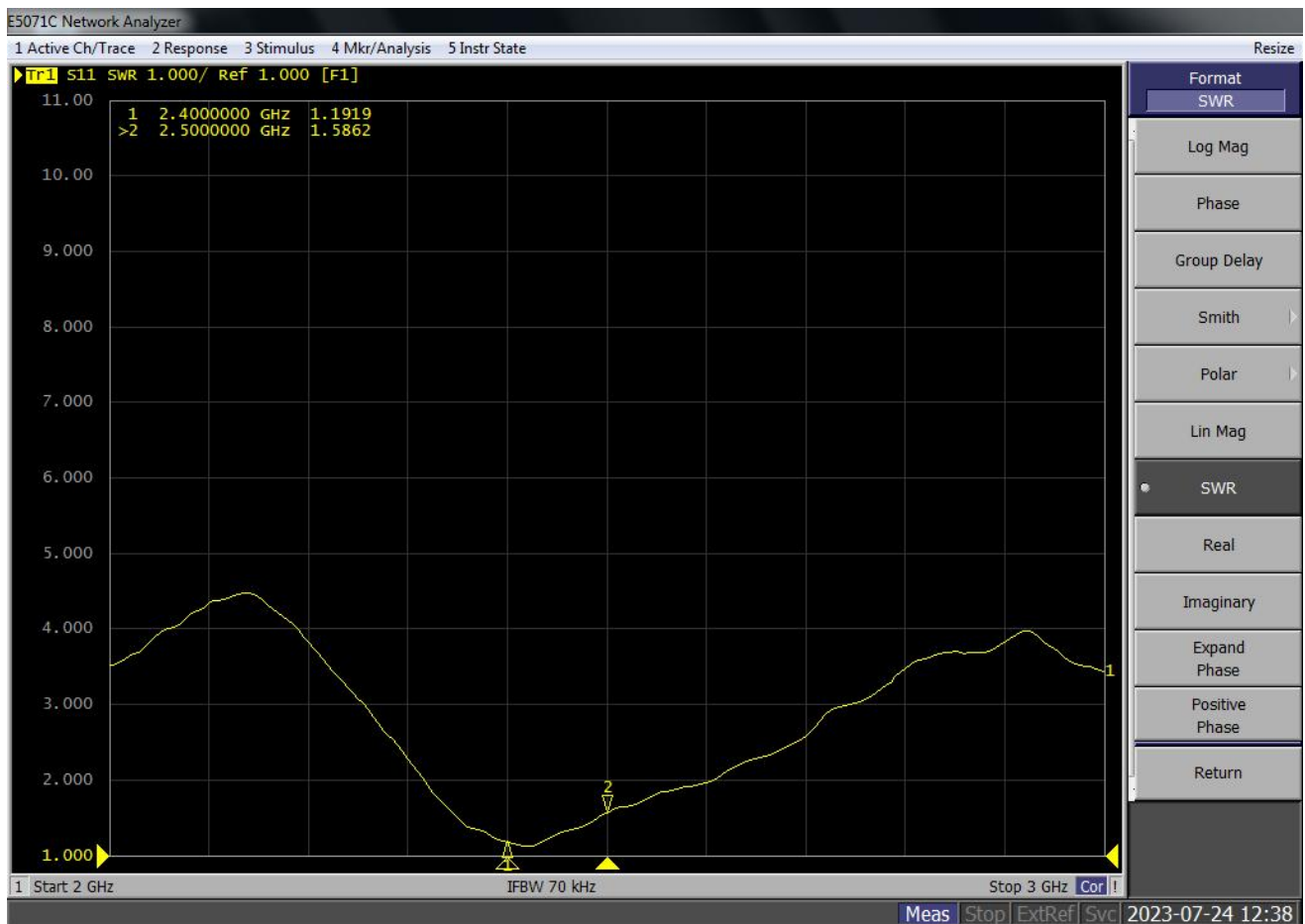
Antenna Size 260mm

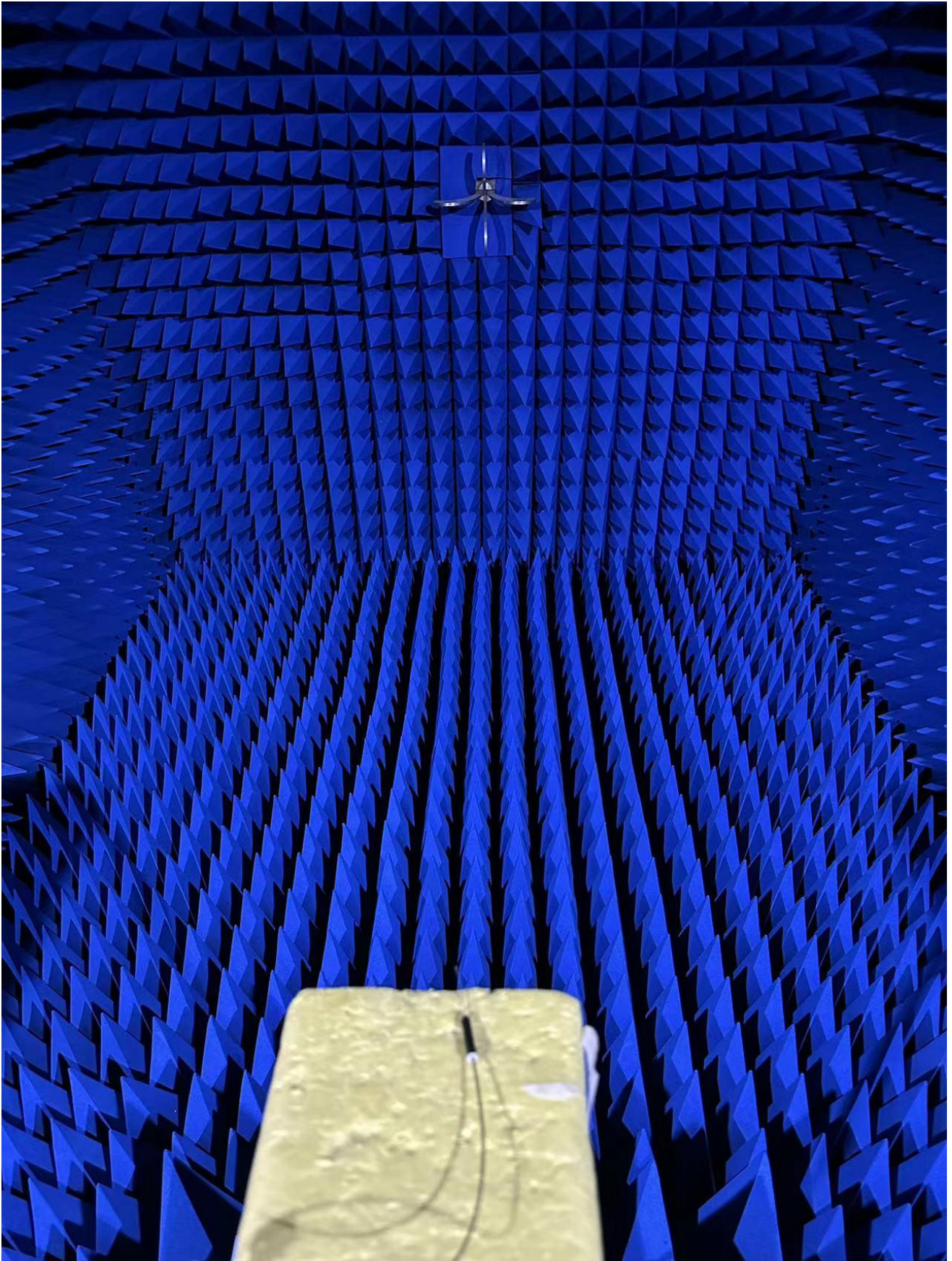
Connector Type I-PEX

Working Temperature -40 °C to +85 °C

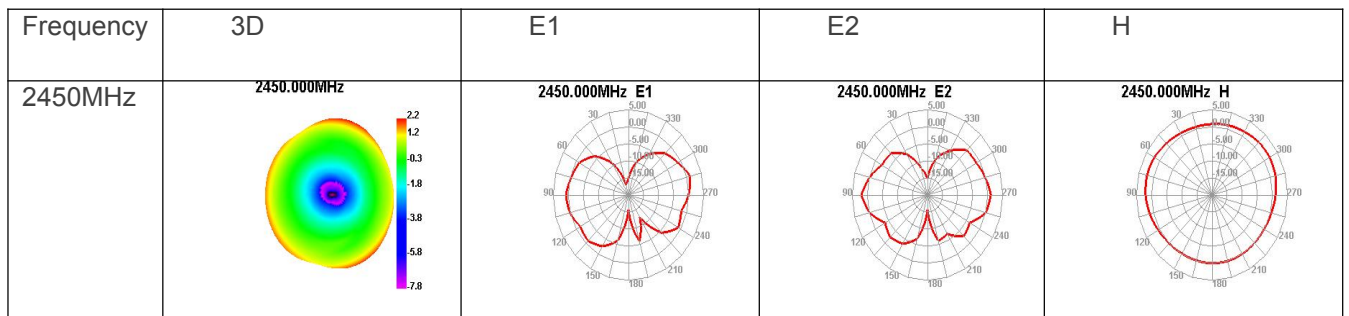
## 4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz

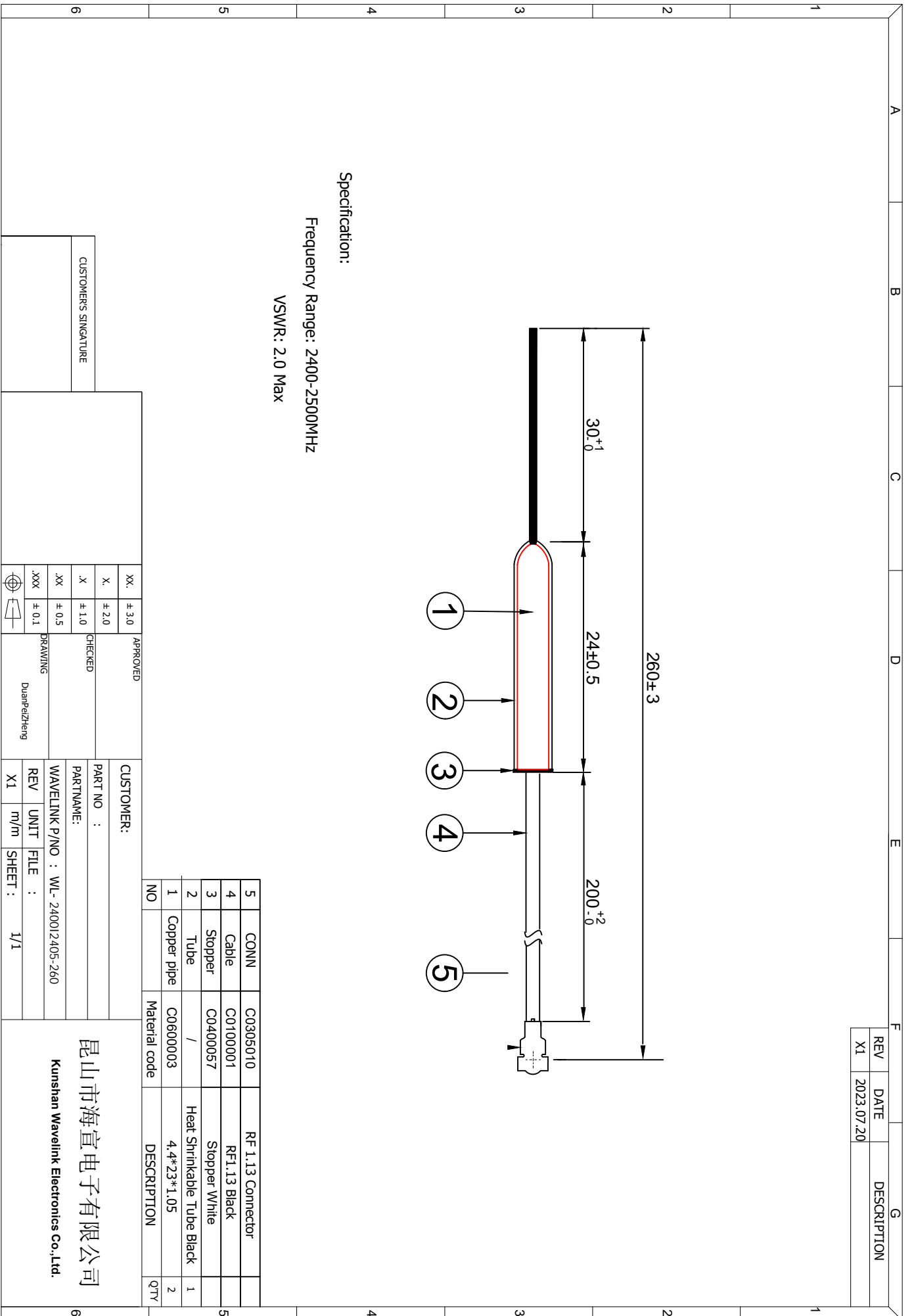




Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
2400	66.18	-1.79	1.76	-0.39	1.76	-15.19	3.55	46.35	46.49
2410	65.78	-1.82	1.79	-0.36	1.79	-15.5	3.61	46.44	46.63
2420	63.27	-1.99	1.65	-0.5	1.65	-17.7	3.64	46.12	46.29
2430	66.96	-1.74	1.89	-0.26	1.89	-17.87	3.63	46.47	46.6
2440	67.94	-1.68	2.03	-0.12	2.03	-17.15	3.71	46.57	46.61
2450	71.15	-1.48	2.25	0.1	2.25	-16.93	3.72	46.91	47.07
2460	74.72	-1.27	2.37	0.22	2.37	-17.89	3.63	47.02	47.09
2470	67.88	-1.68	1.81	-0.34	1.81	-18.2	3.49	46.72	46.83
2480	74.89	-1.26	2.11	-0.04	2.11	-17.74	3.37	47.29	47.47
2490	72.32	-1.41	1.93	-0.22	1.93	-16.29	3.33	46.86	46.93
2500	70.85	-1.5	1.84	-0.31	1.84	-16.04	3.34	47.15	47.32



# 5 Product Size



Specification:

Frequency Range: 2400-2500MHz

VSWR: 2.0 Max

REV	DATE	DESCRIPTION
X1	2023.07.20	

5	CONN	C0305010	RF 1.13 Connector	
4	Cable	C0100001	RF1.13 Black	
3	Stopper	C0400057	Stopper White	
2	Tube	/	Heat Shrinkable Tube Black	1
1	Copper pipe	C0600003	4.4*23*1.05	2
NO		Material code	DESCRIPTION	QTY

APPROVED		CHECKED		DRAWING	
XX. ± 3.0	X. ± 2.0	XX. ± 0.5	.XXX ± 0.1	Customer Signature	
PART NO :		PARTNAME:		WAVELINK P/NO : WL- 240012405-260	
CUSTOMER:		REV		UNIT	
DuanPeiZheng		X1		m/m	
		FILE :		SHEET : 1/1	

昆山市海宣电子有限公司  
Kunshan Wavelink Electronics Co.,Ltd.

## 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>