

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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Catalogue

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1 Product Description

This Wavelink PCB 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

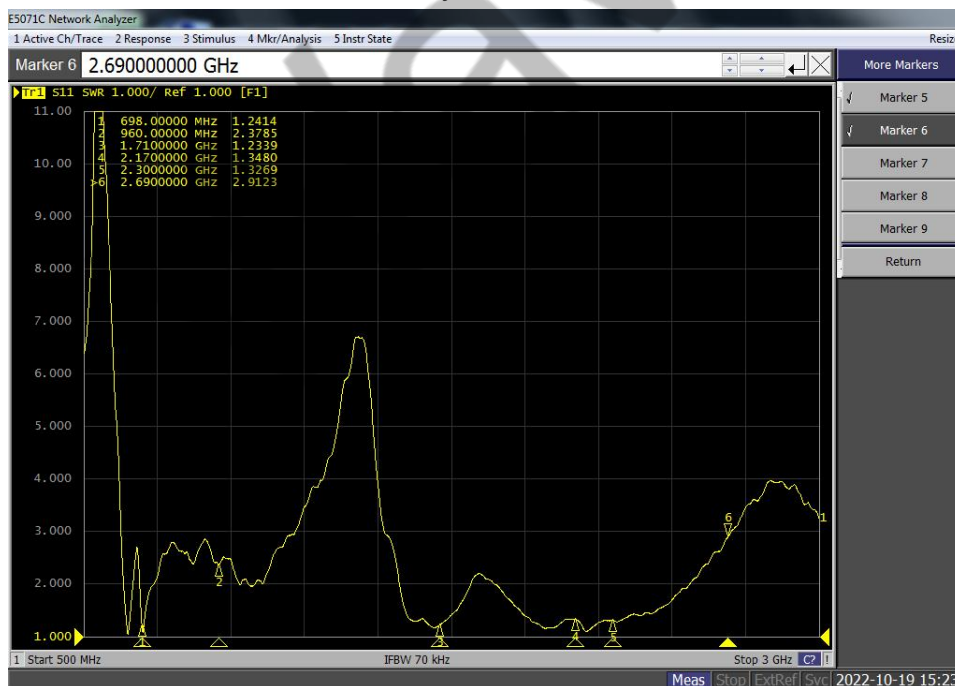
Frequency Range	698-960MHz /1710-2700MHz
Input Impedance	50 Ω
VSWR	≤ 3.0
Gain	≤ 5 dBi
Polarization Type	Linear

Mechanical Specifications

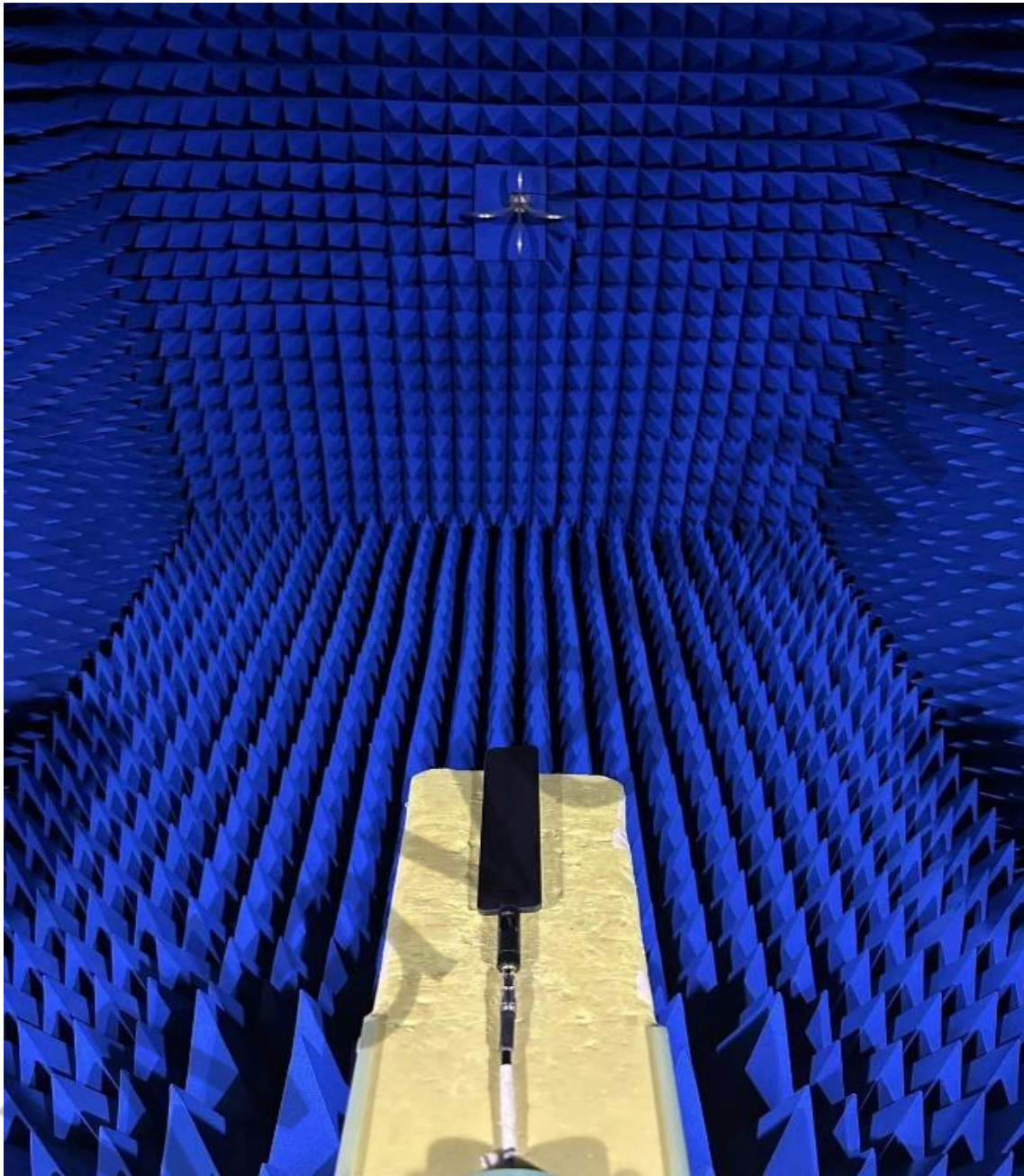
Antenna Size	196 mm $\times$ 38.5 mm $\times$ 11 mm
Casing	PCB
Connector Type	SMA
Working Temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Radome Color	Black

4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz



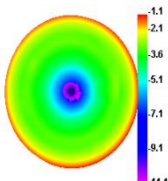
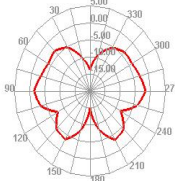
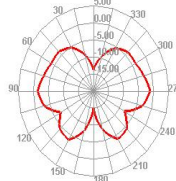
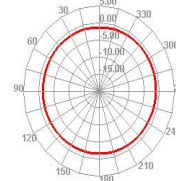
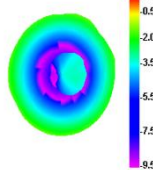
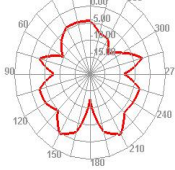
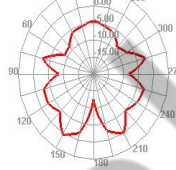
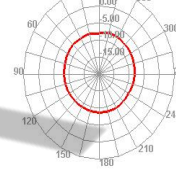
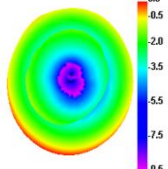
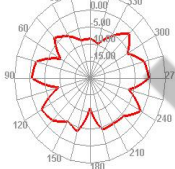
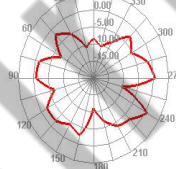
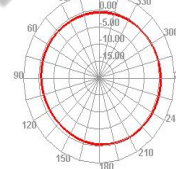
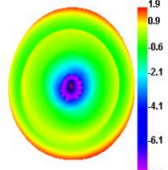
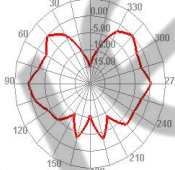
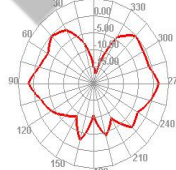
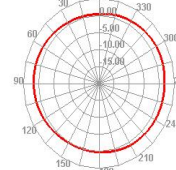
OTA Test Report



Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
690	41.35	-3.84	-1.12	-3.27	-1.12	-14.93	3.84	60	38.96	38.58
700	69.26	-1.6	1.12	-1.03	1.12	-15.23	1.6	30	38.67	38.35
710	83.52	-0.78	2.14	-0.01	2.14	-11.06	0.78	15	38.56	38.31
720	79.53	-0.99	2.23	0.08	2.23	-10.01	0.99	15	37.98	37.82
730	80.62	-0.94	2.46	0.31	2.46	-9.97	0.94	15	37.83	37.7
740	83.39	-0.79	2.62	0.47	2.62	-10.1	0.79	15	37.76	37.64
750	80.68	-0.93	2.48	0.33	2.48	-10.69	0.93	15	37.77	37.66
760	80.61	-0.94	2.37	0.22	2.37	-10.6	0.94	15	37.93	37.81
770	64.06	-1.93	1.6	-0.55	1.6	-10.39	1.93	15	37.24	37.1
780	60.09	-2.21	1.66	-0.49	1.66	-10.88	2.21	15	37.19	37.03
790	64.77	-1.89	2.19	0.04	2.19	-10.87	1.89	15	37.73	37.56
800	65.5	-1.84	2.27	0.12	2.27	-9.27	1.84	0	37.94	37.73
810	60.76	-2.16	1.9	-0.25	1.9	-8.11	2.16	0	37.96	37.73
820	54.87	-2.61	1.38	-0.77	1.38	-8.54	2.61	0	38.16	37.9
830	55.72	-2.54	1.33	-0.82	1.33	-8.7	2.54	0	38.49	38.22
840	50.08	-3	0.74	-1.41	0.74	-10.13	3	0	38.52	38.25
850	52.52	-2.8	0.76	-1.39	0.76	-11.06	2.8	0	38.8	38.54
860	52.63	-2.79	0.51	-1.64	0.51	-11.87	2.79	15	39.07	38.78
870	50.53	-2.96	0.06	-2.09	0.06	-12.11	2.96	15	39.12	38.77
880	47.17	-3.26	-0.41	-2.56	-0.41	-12.62	3.26	15	39.36	38.96
890	49.9	-3.02	-0.34	-2.49	-0.34	-13.33	3.02	60	39.65	39.24
900	45.41	-3.43	-0.6	-2.75	-0.6	-15.21	3.43	60	39.83	39.42
910	40.51	-3.92	-0.92	-3.07	-0.92	-16.89	3.92	60	40.07	39.66
920	38.62	-4.13	-0.88	-3.03	-0.88	-17.16	4.13	15	40.27	39.84
930	34.88	-4.57	-0.91	-3.06	-0.91	-16.14	4.57	0	40.25	39.72
940	34.25	-4.65	-0.54	-2.69	-0.54	-14.53	4.65	0	40.32	39.64
950	36.68	-4.36	0.05	-2.1	0.05	-13.11	4.36	15	40.43	39.66
960	39.01	-4.09	0.47	-1.68	0.47	-12.52	4.09	15	40.19	39.43
1700	52.17	-2.83	0.8	-1.35	0.8	-12.74	2.83	15	42.91	42.83
1710	50.32	-2.98	0.47	-1.68	0.47	-13.04	2.98	15	42.93	42.83
1720	44.61	-3.51	0.15	-2	0.15	-13.2	3.51	0	42.39	42.21
1730	45.07	-3.46	0.38	-1.77	0.38	-14.54	3.46	0	42.54	42.32
1740	50.26	-2.99	0.97	-1.18	0.97	-13.49	2.99	0	43.04	42.83
1750	51.97	-2.84	1.18	-0.97	1.18	-13.8	2.84	0	43.34	43.13
1760	51.57	-2.88	1.16	-0.99	1.16	-16.36	2.88	0	43.47	43.24
1770	49.05	-3.09	0.92	-1.23	0.92	-19.19	3.09	0	43.46	43.23
1780	47.09	-3.27	0.65	-1.5	0.65	-20.82	3.27	15	43.43	43.19
1790	43.84	-3.58	0.16	-1.99	0.16	-18.69	3.58	15	43.24	42.93
1800	44.37	-3.53	0.51	-1.64	0.51	-18.92	3.53	15	43.22	42.83
1810	49.6	-3.05	1.09	-1.06	1.09	-18.59	3.05	15	43.51	43.1
1820	51.69	-2.87	1.26	-0.89	1.26	-18.33	2.87	15	43.48	43.11
1830	51.89	-2.85	1.15	-1	1.15	-18.64	2.85	15	43.51	43.14

1840	55.49	-2.56	1.31	-0.84	1.31	-19.89	2.56	60	43.51	43.17
1850	57.87	-2.38	1.33	-0.82	1.33	-16.66	2.38	45	43.63	43.35
1860	58.49	-2.33	1.2	-0.95	1.2	-19.62	2.33	45	43.69	43.39
1880	66.37	-1.78	1.42	-0.73	1.42	-17.35	1.78	60	43.65	43.38
1890	67.09	-1.73	1.4	-0.75	1.4	-18.7	1.73	60	43.67	43.34
1900	67.56	-1.7	1.4	-0.75	1.4	-19.28	1.7	60	43.64	43.41
1910	66.75	-1.76	1.37	-0.78	1.37	-19.44	1.76	60	43.69	43.44
1920	66.17	-1.79	1.42	-0.73	1.42	-19.6	1.79	60	43.79	43.57
1930	65.56	-1.83	1.48	-0.67	1.48	-20.08	1.83	60	43.89	43.65
1940	67.08	-1.73	1.66	-0.49	1.66	-20.83	1.73	60	43.87	43.66
1950	68.34	-1.65	1.83	-0.32	1.83	-22	1.65	60	43.95	43.7
1960	67.39	-1.71	1.83	-0.32	1.83	-22.62	1.71	60	43.94	43.69
1970	74.81	-1.26	2.32	0.17	2.32	-21.78	1.26	60	44.09	43.96
1980	72.74	-1.38	2.27	0.12	2.27	-23.37	1.38	60	44.17	43.95
1990	73.84	-1.32	2.48	0.33	2.48	-23.81	1.32	60	44.2	44.06
2000	76.6	-1.16	2.87	0.72	2.87	-21.91	1.16	45	44.57	44.42
2010	75.86	-1.2	3.08	0.93	3.08	-22.16	1.2	30	44.69	44.52
2020	78.13	-1.07	3.39	1.24	3.39	-22.47	1.07	30	44.86	44.78
2030	80	-0.97	3.62	1.47	3.62	-20.65	0.97	30	45.04	44.98
2040	81.94	-0.87	3.79	1.64	3.79	-21.18	0.87	30	45.12	45.07
2050	80.96	-0.92	3.79	1.64	3.79	-24.78	0.92	30	45.01	44.95
2060	86.09	-0.65	4.13	1.98	4.13	-26.67	0.65	30	45.26	45.2
2070	82.58	-0.83	4.01	1.86	4.01	-19.48	0.83	30	45.22	45.06
2080	84.25	-0.74	4.13	1.98	4.13	-19.03	0.74	30	45.28	45.12
2090	86.59	-0.63	4.25	2.1	4.25	-18.21	0.63	30	45.5	45.36
2100	90.79	-0.42	4.41	2.26	4.41	-17.03	0.42	30	45.71	45.51
2110	67.67	-1.7	3.02	0.87	3.02	-17.51	1.7	30	44.31	44.12
2120	67.05	-1.74	2.82	0.67	2.82	-16.99	1.74	30	44.53	44.39
2130	67.44	-1.71	2.7	0.55	2.7	-16.69	1.71	30	44.47	44.28
2140	65.99	-1.81	2.51	0.36	2.51	-17.01	1.81	30	44.41	44.26
2150	62.81	-2.02	2.23	0.08	2.23	-17.91	2.02	30	44.38	44.31
2160	65.21	-1.86	2.28	0.13	2.28	-18.57	1.86	30	44.5	44.39
2170	64.13	-1.93	2	-0.15	2	-18.83	1.93	30	44.74	44.7
2180	65.63	-1.83	1.78	-0.37	1.78	-17.27	1.83	45	44.71	44.69
2190	68.53	-1.64	1.59	-0.56	1.59	-15.05	1.64	45	45	44.95
2200	71.4	-1.46	1.43	-0.72	1.43	-13.28	1.46	45	45.09	45.01
2210	74.1	-1.3	1.87	-0.28	1.87	-12.89	1.3	30	45.12	45.08
2220	77.42	-1.11	2.39	0.24	2.39	-13.03	1.11	30	45.26	45.2
2230	79.74	-0.98	2.76	0.61	2.76	-13.04	0.98	30	45.26	45.17
2240	80.63	-0.93	3.01	0.86	3.01	-13.55	0.93	30	45.48	45.44
2250	79.02	-1.02	3.04	0.89	3.04	-14.85	1.02	30	45.26	45.18
2260	77.66	-1.1	3.03	0.88	3.03	-16.33	1.1	30	45.38	45.33
2270	79.25	-1.01	3.11	0.96	3.11	-17.31	1.01	30	45.65	45.67
2280	74.45	-1.28	2.74	0.59	2.74	-18.19	1.28	30	45.53	45.52

2290	76.55	-1.16	2.72	0.57	2.72	-18.1	1.16	30	45.9	45.86
2300	75.37	-1.23	2.79	0.64	2.79	-17.99	1.23	15	45.79	45.81
2310	76.66	-1.15	3.09	0.94	3.09	-18.15	1.15	30	45.95	45.82
2320	78.28	-1.06	3.37	1.22	3.37	-19.14	1.06	30	45.96	45.9
2330	79.55	-0.99	3.56	1.41	3.56	-21.11	0.99	15	46.17	46.12
2340	80.7	-0.93	3.62	1.47	3.62	-20.67	0.93	15	46.36	46.27
2350	76.44	-1.17	3.28	1.13	3.28	-20.96	1.17	15	46.31	46.27
2360	73.99	-1.31	2.99	0.84	2.99	-20.25	1.31	30	46.38	46.32
2370	68.02	-1.67	2.5	0.35	2.5	-19.39	1.67	45	46.32	46.3
2380	69	-1.61	2.54	0.39	2.54	-18.12	1.61	60	46.45	46.33
2390	67.25	-1.72	2.48	0.33	2.48	-18.36	1.72	60	46.66	46.66
2400	67.2	-1.73	2.58	0.43	2.58	-19.14	1.73	45	46.78	46.66
2410	64.63	-1.9	2.52	0.37	2.52	-16.84	1.9	45	46.54	46.47
2420	60.06	-2.21	2.21	0.06	2.21	-14.76	2.21	45	46.78	46.77
2430	58.92	-2.3	1.97	-0.18	1.97	-13.23	2.3	45	46.65	46.52
2440	56.97	-2.44	1.59	-0.56	1.59	-12.31	2.44	45	46.79	46.73
2450	55.6	-2.55	1.26	-0.89	1.26	-11.94	2.55	60	46.92	46.83
2460	54.52	-2.63	1.06	-1.09	1.06	-11.92	2.63	60	47.02	46.93
2470	54.43	-2.64	0.92	-1.23	0.92	-12.14	2.64	60	46.82	46.7
2480	54.2	-2.66	0.83	-1.32	0.83	-12.39	2.66	60	47.15	47.03
2490	57.04	-2.44	1.03	-1.12	1.03	-11.84	2.44	60	47.25	47.04
2500	55.26	-2.58	0.95	-1.2	0.95	-11.38	2.58	60	47.08	46.9
2510	51.18	-2.91	0.7	-1.45	0.7	-11.22	2.91	45	47.12	46.99
2520	52.71	-2.78	0.81	-1.34	0.81	-11.17	2.78	60	46.86	46.73
2530	50.09	-3	0.47	-1.68	0.47	-11.93	3	60	46.86	46.77
2540	48.68	-3.13	0.09	-2.06	0.09	-12.49	3.13	60	46.67	46.65
2550	50.29	-2.99	-0.04	-2.19	-0.04	-12.45	2.99	60	46.89	46.85
2560	53.87	-2.69	0.07	-2.08	0.07	-11.73	2.69	60	46.64	46.58
2570	54.4	-2.64	0.14	-2.01	0.14	-11.53	2.64	60	46.93	46.95
2580	50.57	-2.96	-0.11	-2.26	-0.11	-11.51	2.96	60	46.92	46.77
2590	53.59	-2.71	0.17	-1.98	0.17	-11.29	2.71	60	46.68	46.61
2600	50.13	-3	-0.04	-2.19	-0.04	-11.46	3	60	47.08	46.99
2610	51.24	-2.9	0.06	-2.09	0.06	-11.66	2.9	75	46.94	46.85
2620	54.92	-2.6	0.33	-1.82	0.33	-12.11	2.6	75	46.88	46.79
2630	51.65	-2.87	0	-2.15	0	-13.17	2.87	75	47.1	47.01
2640	63.83	-1.95	0.94	-1.21	0.94	-13.64	1.95	75	47.49	47.35
2650	62.54	-2.04	0.95	-1.2	0.95	-14.79	2.04	75	47.39	47.27
2660	63.8	-1.95	1.2	-0.95	1.2	-14.77	1.95	60	47.66	47.54
2670	69.91	-1.55	1.82	-0.33	1.82	-14.71	1.55	60	47.76	47.6
2680	63.65	-1.96	1.63	-0.52	1.63	-16.19	1.96	30	47.81	47.7
2690	64.73	-1.89	1.89	-0.26	1.89	-17.13	1.89	30	47.82	47.71
2700	52.64	-2.79	1.15	-1	1.15	-16.74	2.79	15	48.01	47.89

Frequency	3D	E1	E2	H
690MHz	690.000MHz 	690.000MHz E1 	690.000MHz E2 	690.000MHz 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 
2170MHz	2690.000MHz 	2690.000MHz E1 	2690.000MHz E2 	2690.000MHz H 

Technical drawing of a lamp. The main view shows a rectangular body with a tapered top and bottom. The width is dimensioned as 28 ± 2 and the height as 136 ± 2 . A detail view of the base is shown below, with numbered callouts 1, 2, 3, and 4. The base has a diameter of 13 ± 0.5 . The detail view shows a cross-section of the base with a central opening and a textured area.

[illegible]

NO	DESCRIPTION	QTY	REMARK
4	Conn	1	
3	Antenna Base	1	
2	Antenna Base	1	
1	Antenna Body	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.