

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 Partners:

Skyworth **NARI**

flex

 **HUAWEI**

 **VVDN**
TECHNOLOGIES

Tenda **Infinova**

dji

Hikvision

JABIL

Catalogue

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1 Product Description

This wavelink antenna covers 433MHz.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	433 MHz
Input Impedance	50 Ω
VSWR	≤ 2

Gain	≤1 dBi
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Polarization Type	Linear
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Mechanical Specifications

Antenna Size	168mm × 29mm
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Casing	Spring
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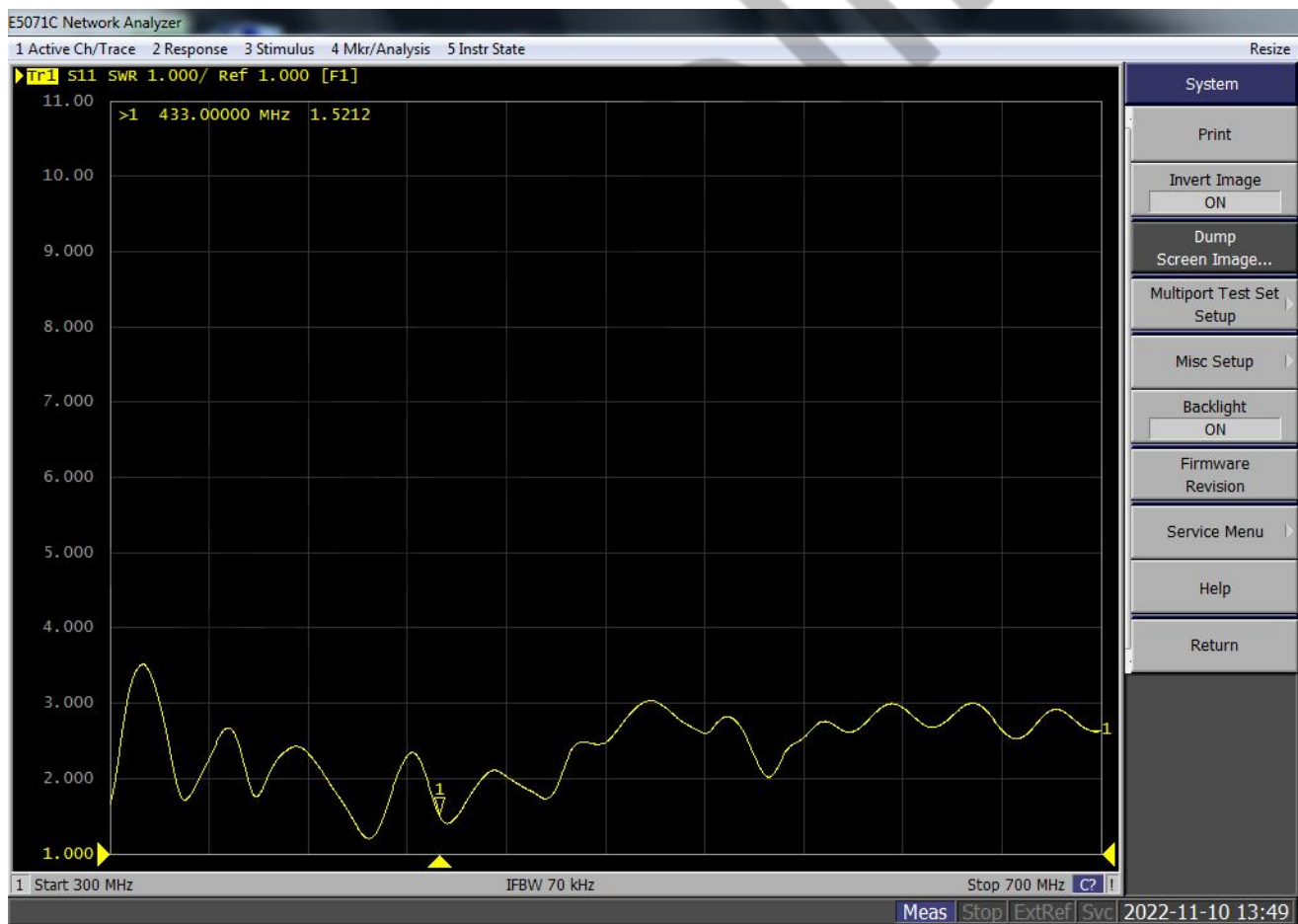
Connector Type	SMA
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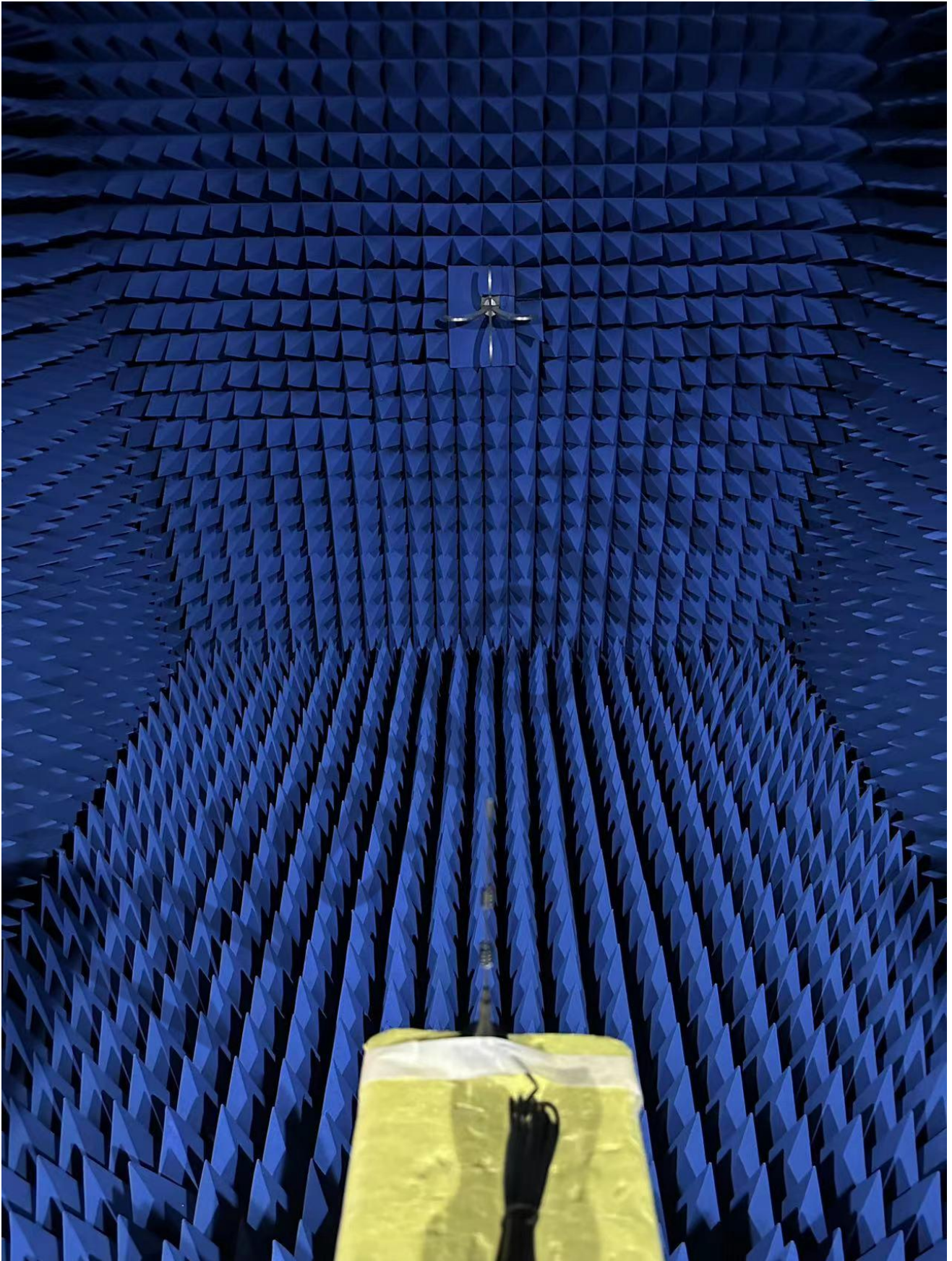
Working Temperature	-40 °C to +85 °C
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Radome Color	Black
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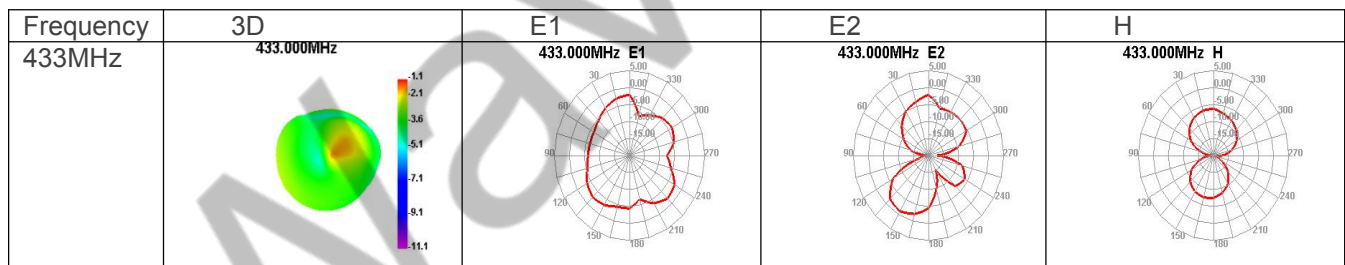
4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz

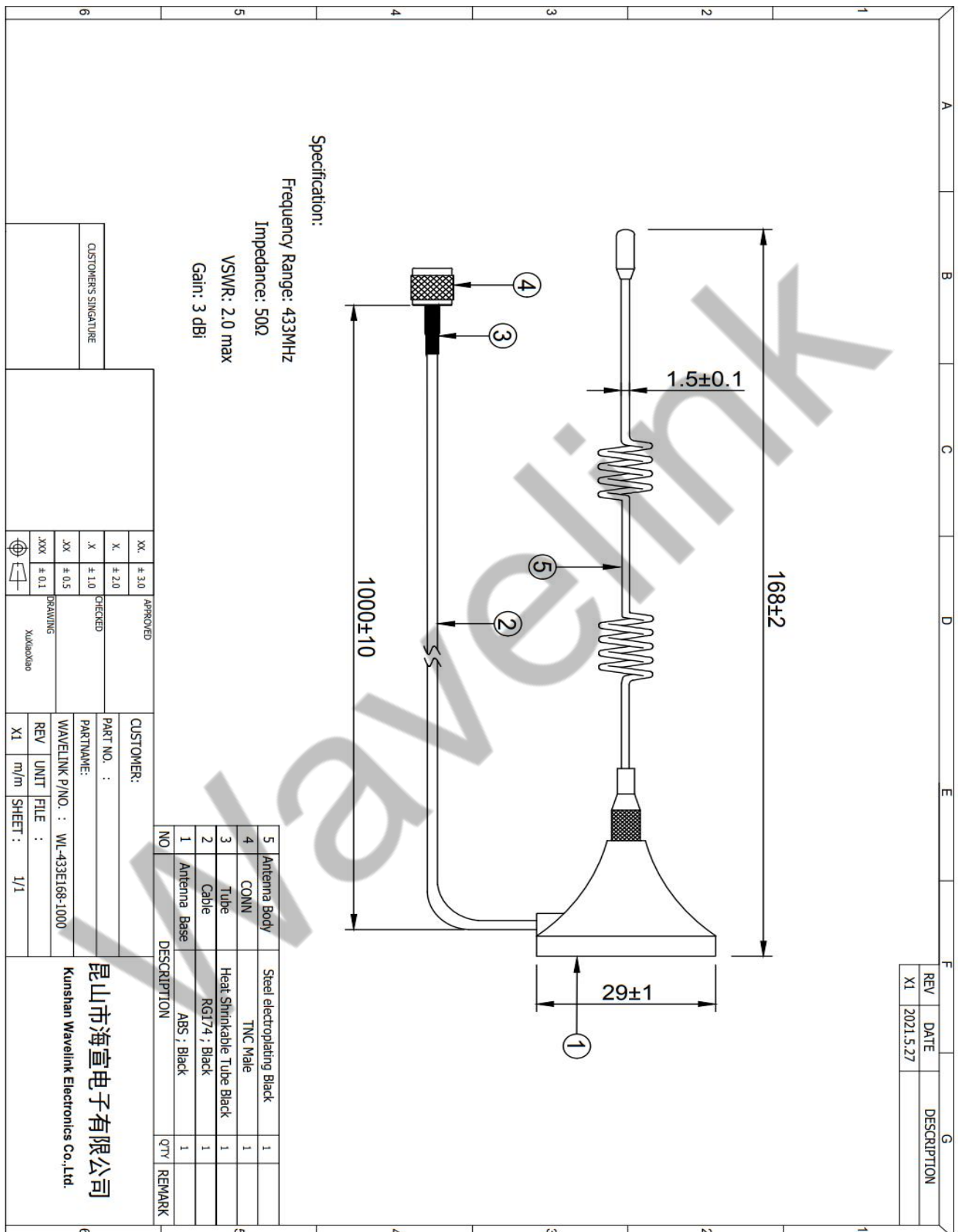




Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
420	9.21	-10.36	-5.17	-7.32	-5.17	-19.04	10.36	45	37.55	37.52
421	10.66	-9.72	-4.68	-6.83	-4.68	-19.7	9.72	45	37.5	37.47
422	12.32	-9.09	-4.24	-6.39	-4.24	-20.81	9.09	45	37.45	37.42
423	14.07	-8.52	-3.89	-6.04	-3.89	-22.62	8.52	45	37.4	37.37
424	15.83	-8	-3.57	-5.72	-3.57	-25.03	8	45	37.34	37.32
425	17.53	-7.56	-3.18	-5.33	-3.18	-28.05	7.56	30	37.29	37.27
426	19.49	-7.1	-2.8	-4.95	-2.8	-31.47	7.1	30	37.31	37.32
427	21.37	-6.7	-2.52	-4.67	-2.52	-32.41	6.7	30	37.34	37.36
428	23.14	-6.36	-2.29	-4.44	-2.29	-29.55	6.36	30	37.36	37.41
429	24.81	-6.05	-2.04	-4.19	-2.04	-26.48	6.05	30	37.38	37.45
430	26.41	-5.78	-1.56	-3.71	-1.56	-23.98	5.78	30	37.41	37.5
431	26.67	-5.74	-1.34	-3.49	-1.34	-22.29	5.74	30	37.23	37.32
432	26.84	-5.71	-1.18	-3.33	-1.18	-20.95	5.71	30	37.06	37.14
433	26.91	-5.7	-1.06	-3.21	-1.06	-19.92	5.7	30	36.89	36.96
434	26.82	-5.72	-0.95	-3.1	-0.95	-19.25	5.72	30	36.72	36.78
435	26.52	-5.76	-0.89	-3.04	-0.89	-18.82	5.76	30	36.55	36.6
436	26.18	-5.82	-0.85	-3	-0.85	-18.43	5.82	30	36.41	36.47
437	25.54	-5.93	-0.88	-3.03	-0.88	-18.09	5.93	30	36.27	36.33
438	24.64	-6.08	-0.97	-3.12	-0.97	-18.46	6.08	30	36.13	36.2
439	23.54	-6.28	-1.13	-3.28	-1.13	-18.9	6.28	30	36	36.06
440	22.33	-6.51	-1.32	-3.47	-1.32	-19.4	6.51	30	35.86	35.93



5 Product Size



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.