

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**

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Hikvision

JABIL

Catalogue

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1 Product Description

This wavelink antenna covers WiFi2.4.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	490-750 MHz
Input Impedance	50 Ω
VSWR	≤ 2
Gain	$\leq 3\text{dBi}$

Polarization Type Linear

Mechanical Specifications

Antenna Size 212mm ×14.5mm

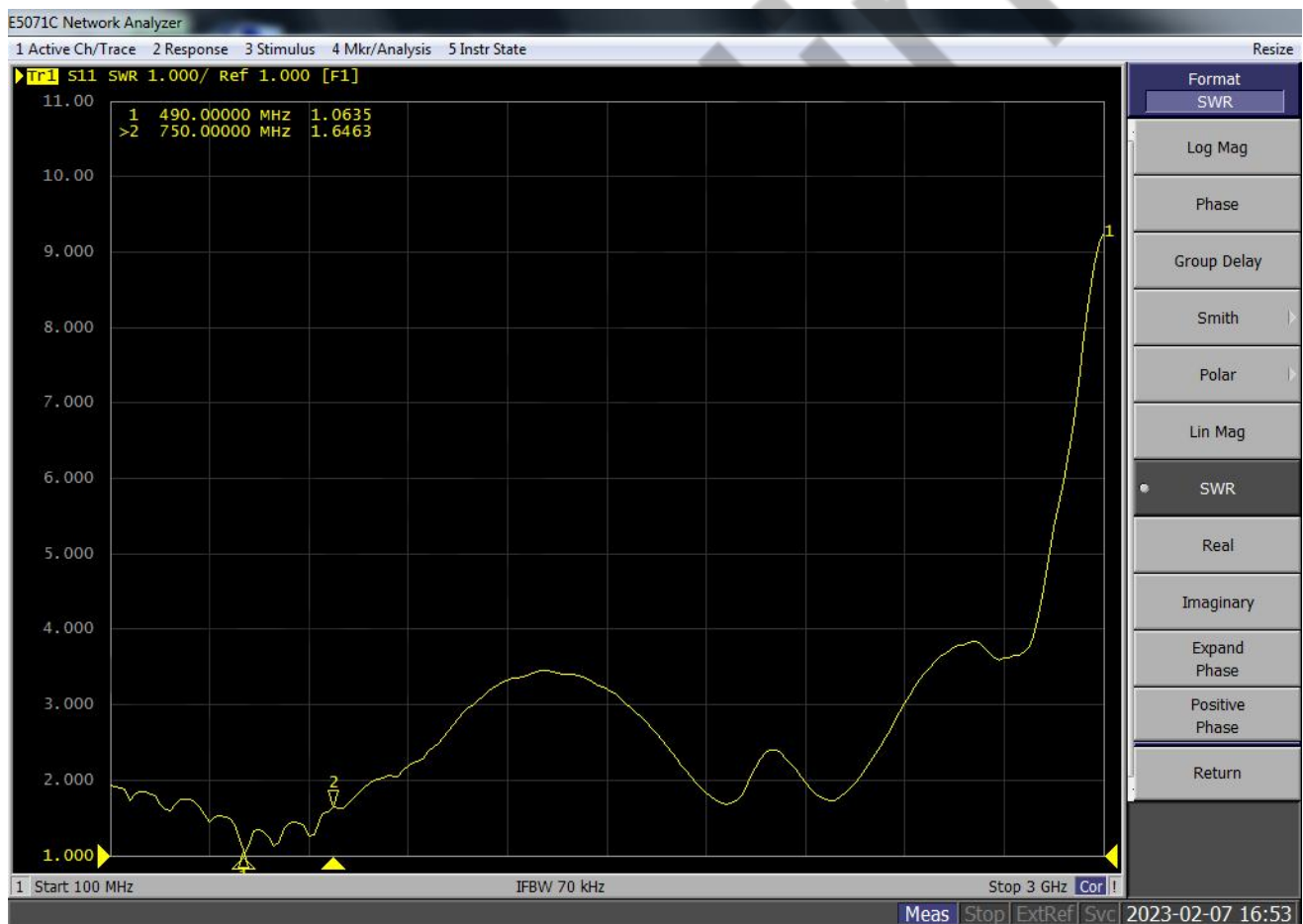
Connector Type TNC Male

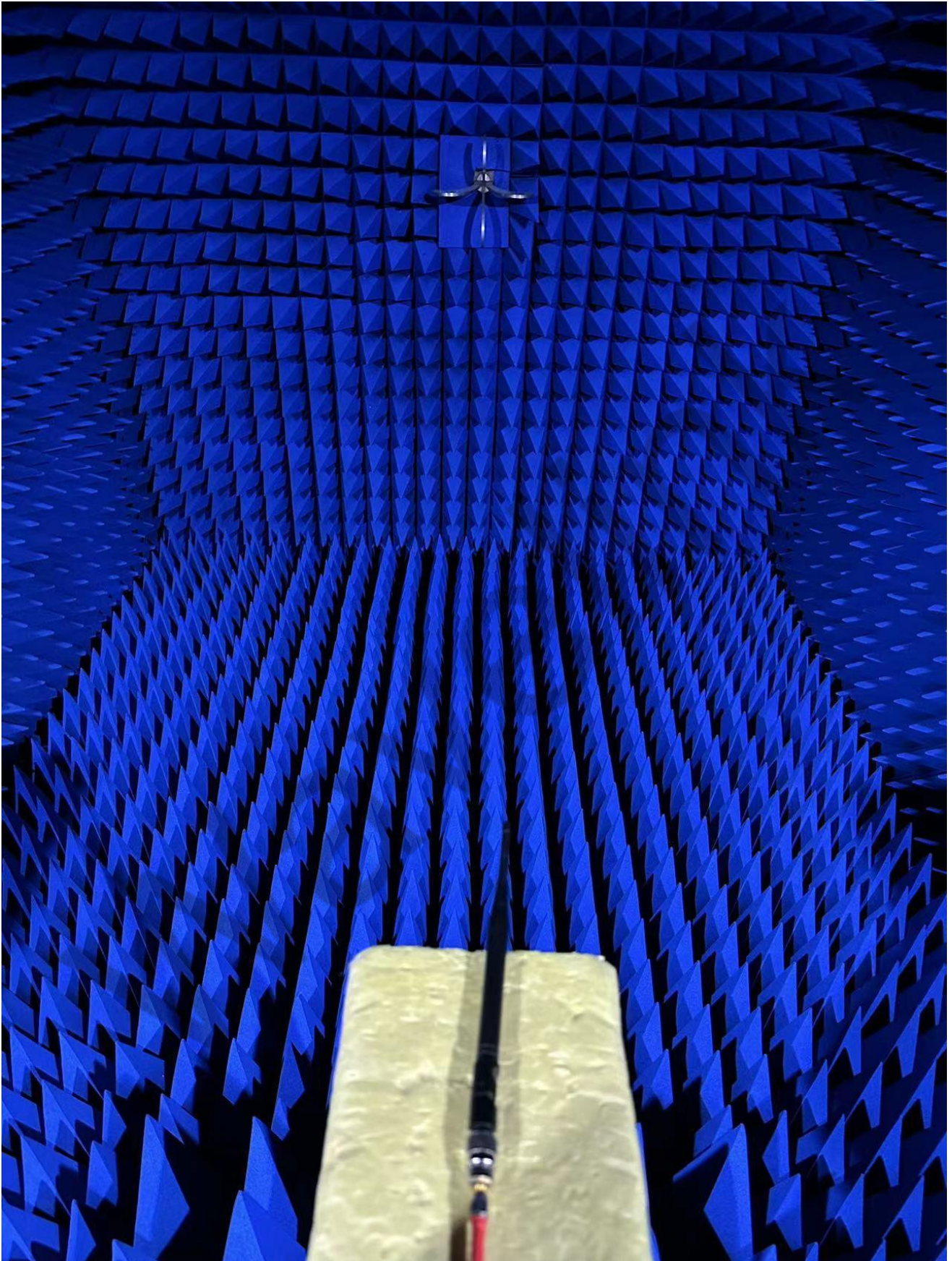
Working Temperature -40 °C to +85 °C

Radome Color Black

4 Overall Performance

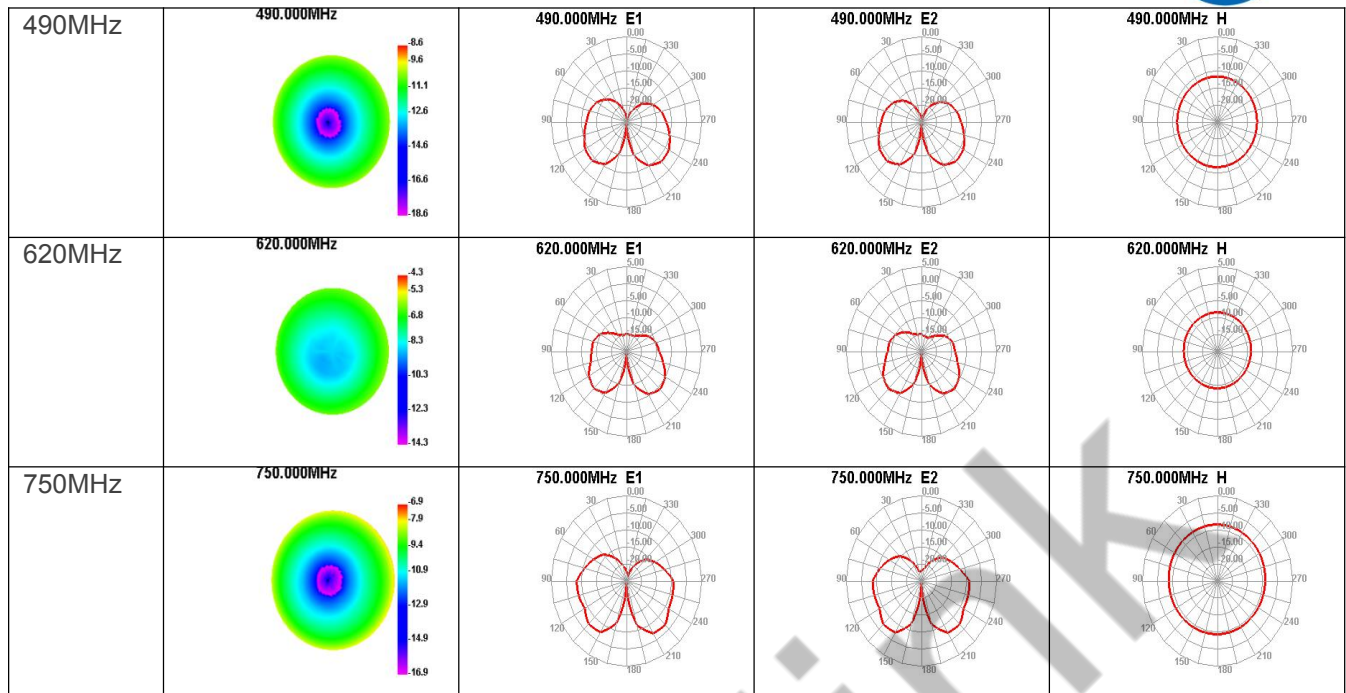
KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz



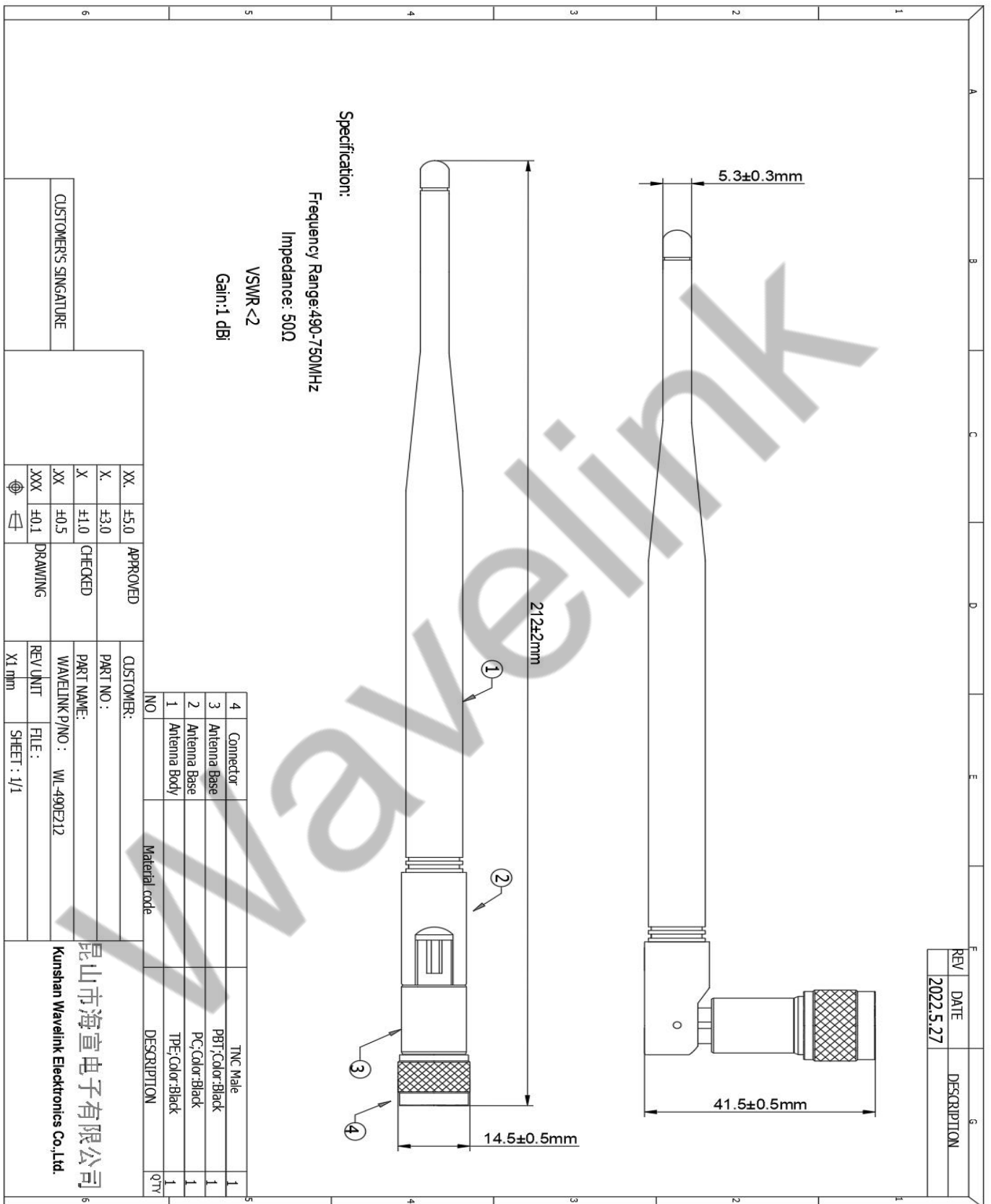


Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
490	11.8	-1.68	-2.59	-10.74	-8.59	-29.32	45	34.18	34.84
500	15.44	-1.28	-2.17	-10.32	-8.17	-28.37	45	34.83	35.2
510	17.92	-4.01	-2.05	-10.2	-8.05	-28.63	45	35.43	35.41
520	29.77	-4.1	-1.29	-9.44	-7.29	-29.34	60	35.76	35.57
530	23.22	-5.79	-2.02	-8.17	-6.02	-29.13	60	36.81	36.57
540	23.77	-5.61	1.79	-7.94	-5.79	-28.86	60	37.04	36.69
550	24.89	-5.27	1.27	-7.42	-5.27	-27.97	60	37.64	37.12
560	23.44	-5.71	1.42	-7.57	-5.42	-27.52	45	38.02	37.41
570	32.63	-4.99	1.35	-7.5	-5.35	-27.32	45	38.5	37.92
580	33.13	-4.82	1.01	-7.16	-5.01	-27.9	45	39.35	38.78
590	34.29	-4.45	2.74	-6.89	-4.74	-30.95	45	40.11	39.58
600	35.48	-4.1	2.58	-6.73	-4.58	-39.89	45	40.57	40.03
610	35.99	-4.96	2.44	-6.59	-4.44	-34.67	45	40.9	40.3
620	35.94	-4.98	2.25	-6.4	-4.25	-29.14	30	40.94	40.5
630	33.68	-4.64	2.58	-6.73	-4.58	-26.02	30	40.64	40.36
640	24.66	-5.34	2.11	-6.26	-4.11	-24.31	30	41.29	41.14
650	22.53	-6.02	2.95	-7.1	-4.95	-25.89	30	40.78	40.6
660	22.21	-6.13	2.28	-7.43	-5.28	-30.94	30	40.56	40.32
670	23.61	-6.66	2.14	-7.29	-5.14	-31.86	30	40.06	39.99
680	21.6	-6.36	2.96	-8.11	-5.96	-34.05	30	38.79	38.71
690	22.05	-6.19	2.95	-8.1	-5.95	-30.36	30	38.33	38.48
700	21.54	-6.38	1.03	-8.18	-6.03	-27.48	30	37.72	38.08
710	29.99	-8.01	1.63	-8.78	-6.63	-25.66	30	37.29	37.72
720	20.65	-6.72	1.32	-8.47	-6.32	-24.35	30	37.37	37.98
730	19.62	-7.17	-1.8	-8.95	-6.8	-24.69	60	37.02	37.55
740	21.33	-5.86	-1.59	-8.74	-6.59	-25.4	60	37.23	37.73
750	22.85	-6.06	-1.85	-9	-6.85	-27.54	60	37.04	37.47

Frequency	3D	E1	E2	H
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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.