

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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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	2400-2500 MHz
Input Impedance	50 Ω
VSWR	≤ 2
Gain	≤ 2 dBi

Polarization Type Linear

Mechanical Specifications

Antenna Size 80mm × 12mm

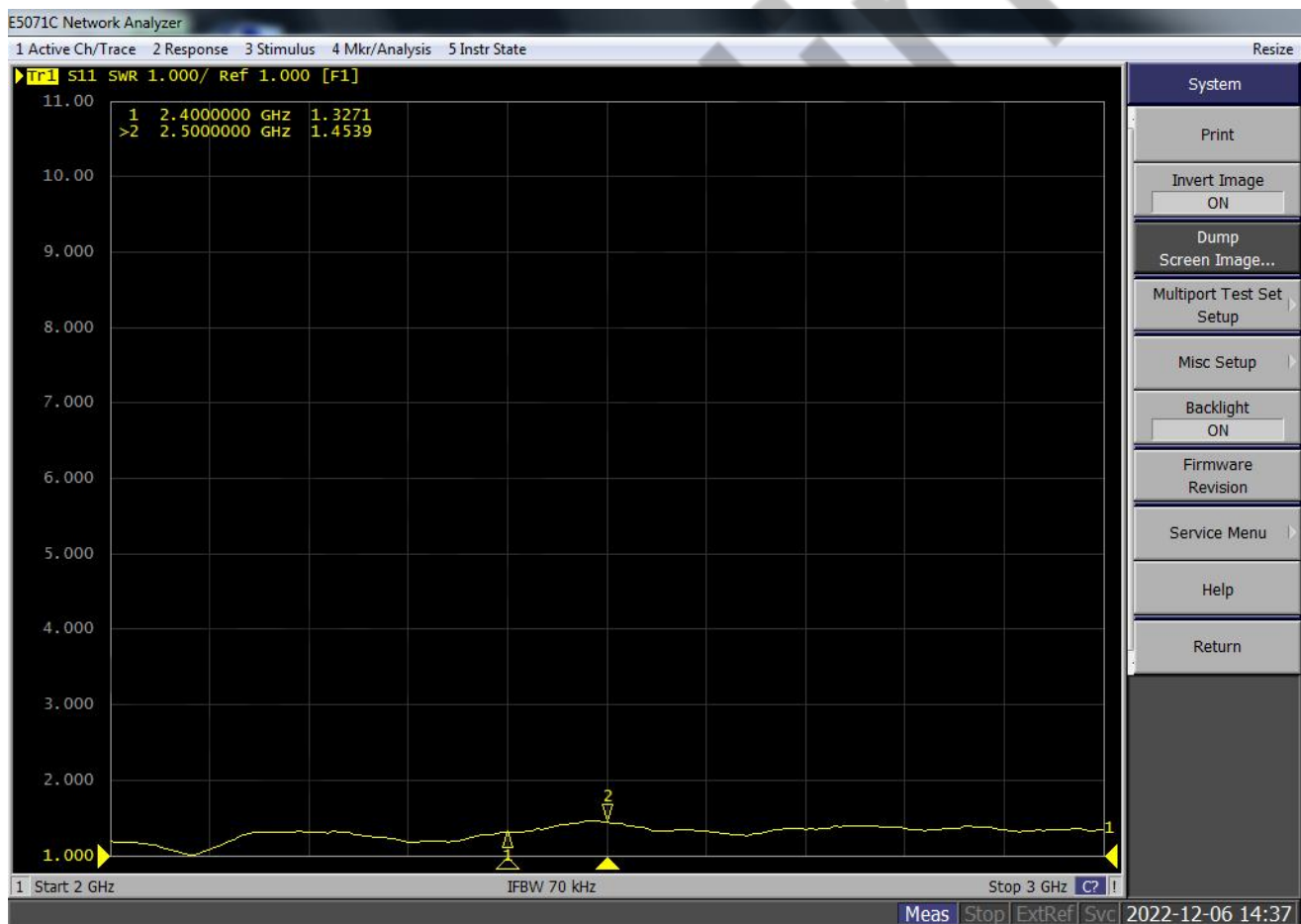
Connector Type SMA

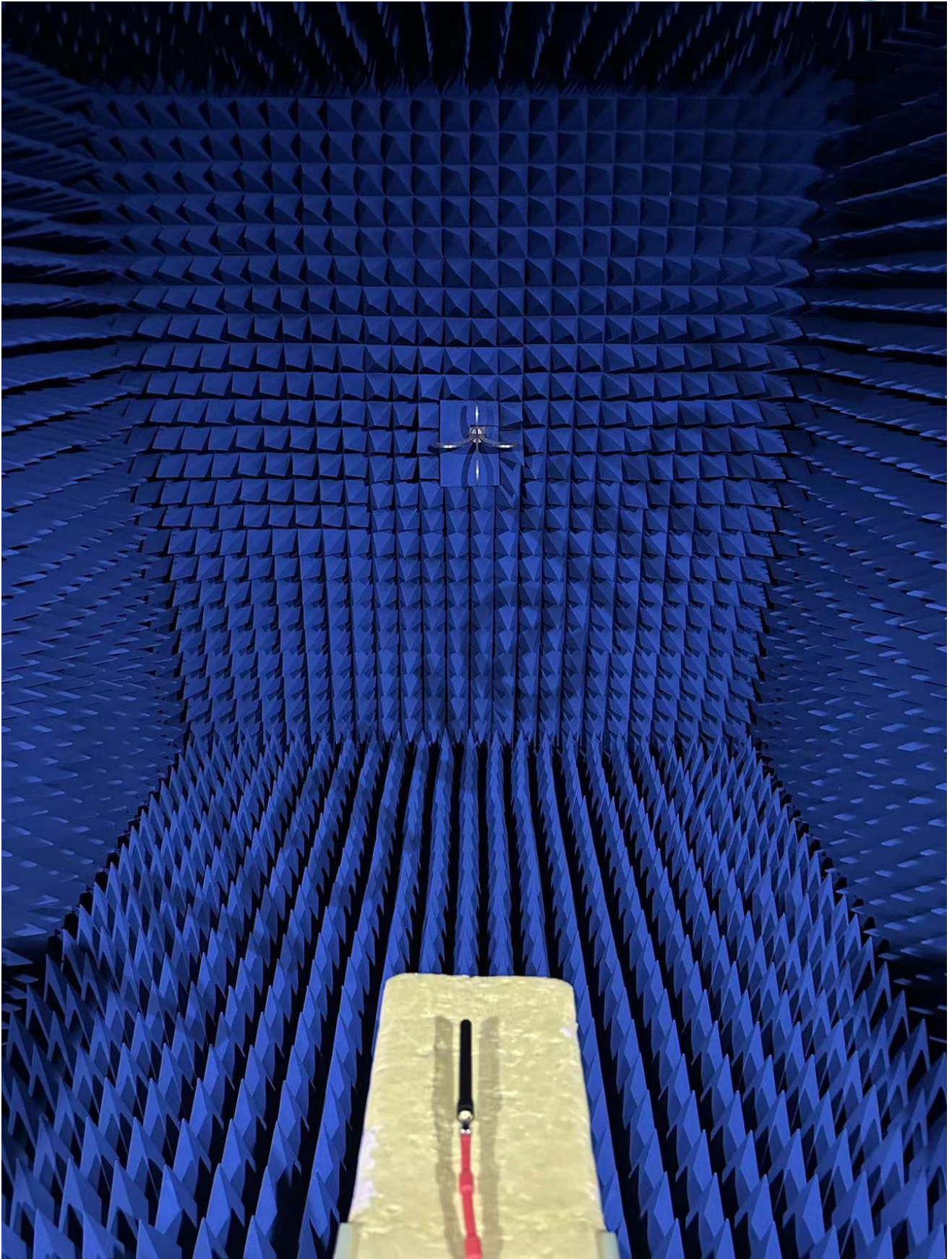
Working Temperature -40 °C to +85 °C

Radome Color Black

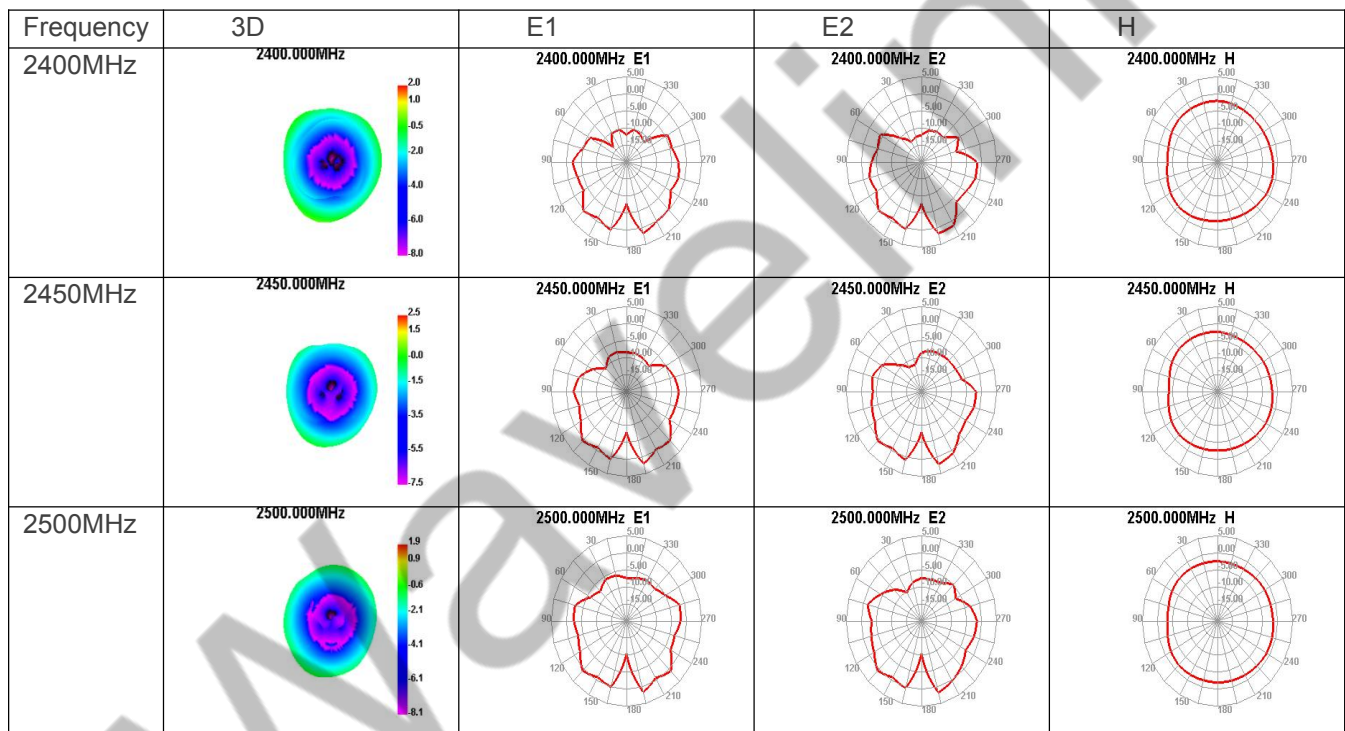
4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz





Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
2400	49.58	-3.05	2.03	-0.12	2.03	-13.72	5.08	46.16	46.3
2410	46.66	-3.31	1.78	-0.37	1.78	-12.92	5.09	46.26	46.45
2420	46.65	-3.31	1.83	-0.32	1.83	-12.24	5.15	46.15	46.32
2430	46.5	-3.33	1.98	-0.17	1.98	-12.44	5.3	46.31	46.44
2440	46.73	-3.3	2.07	-0.08	2.07	-12.8	5.37	46.52	46.56
2450	51.63	-2.87	2.47	0.32	2.47	-12.46	5.34	46.77	46.93
2460	50.24	-2.99	2.24	0.09	2.24	-12.56	5.23	46.82	46.89
2470	52.81	-2.77	2.24	0.09	2.24	-12.27	5.01	46.54	46.65
2480	53.53	-2.71	2.08	-0.07	2.08	-11.77	4.79	47.04	47.22
2490	54.91	-2.6	1.93	-0.22	1.93	-10.83	4.53	46.75	46.82
2500	56.55	-2.48	1.9	-0.25	1.9	-10.48	4.38	46.91	47.08



5 Product Size

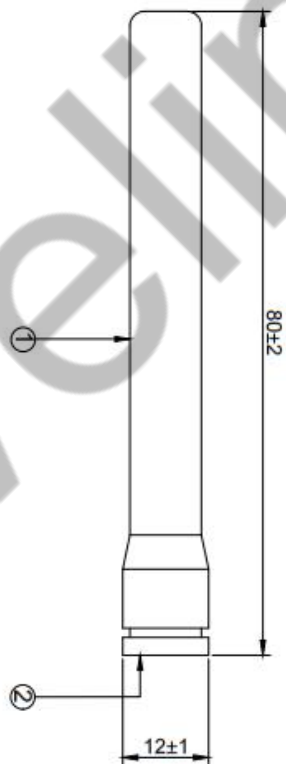
				F		G	
				REV	DATE	DESCRIPTION	
				X1	2023.3.13		

Specification:

Frequency Range: 2400-2500MHz

VSWR: <2.0

Gain: 2dBi



CUSTOMER'S SIGNATURE		APPROVED		CHECKED		DRAWING	
				X		X	
				X		X	
				.XX		.XX	
				.XXX		.XXX	
				.XXX		.XXX	

CUSTOMER:			
PART NO. :			
PART NAME: Antenna Assembly			
WAVELINK P/NO. : WL-240DE 80			
REV	UNIT	FILE	
X1	m/m	SHEET :	1/1

2	CONN	C0100001	SMA MALE	1
1	Antenna Body	C0400067	ABS BLACK	1
	Material code		DESCRIPTION	QTY

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.