

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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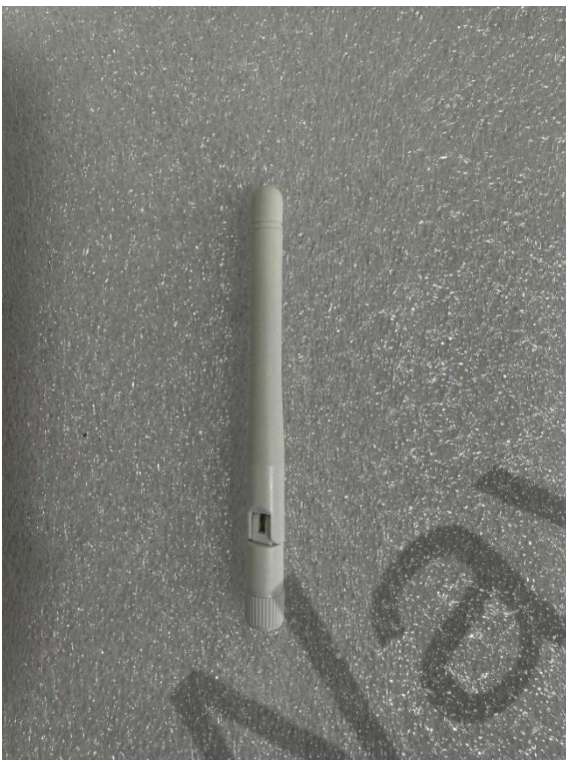
Wavelink

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

Polarization Type Linear

Mechanical Specifications

Antenna Size 108mm $\times$ 10mm

Casing Spring

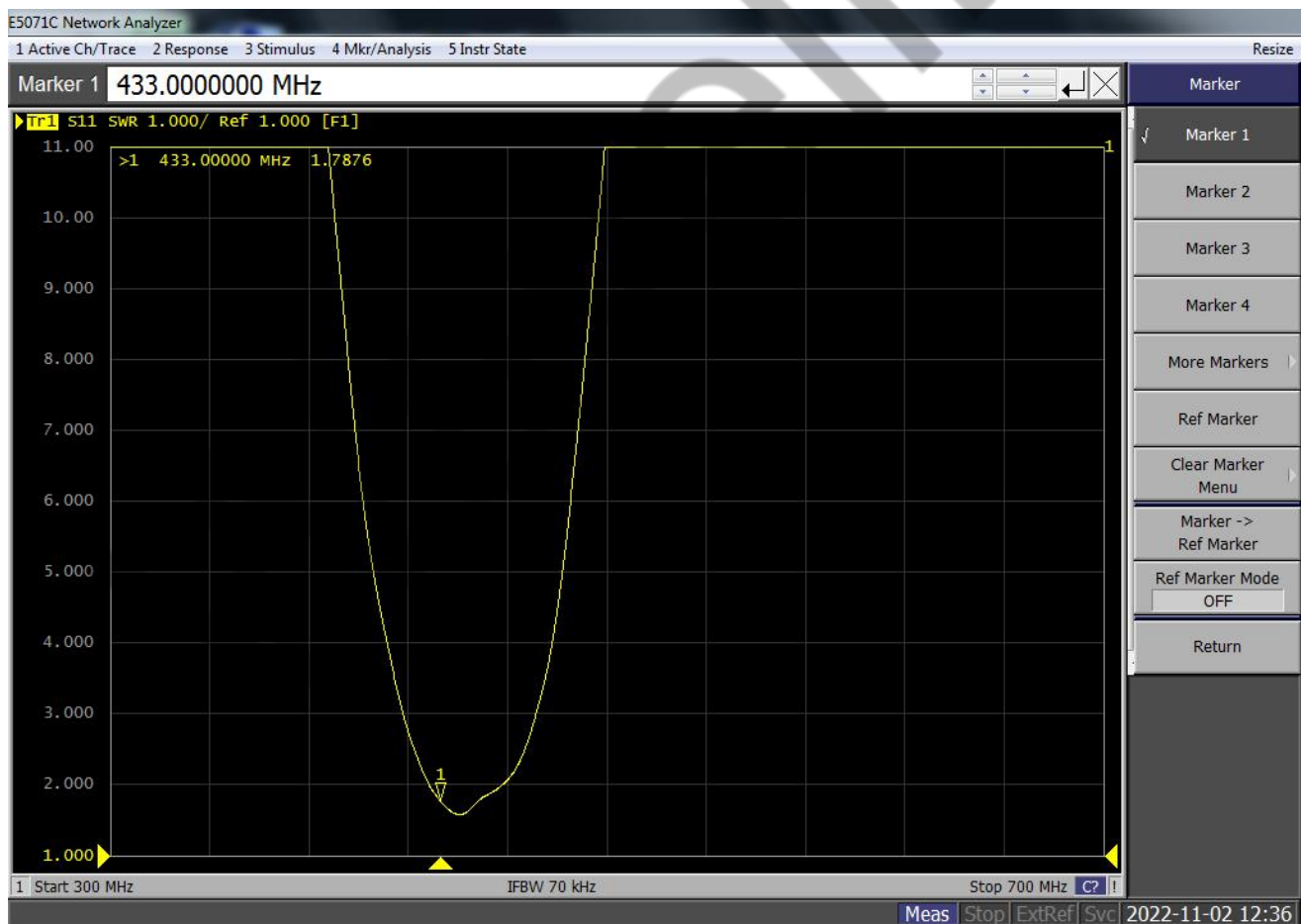
Connector Type SMA

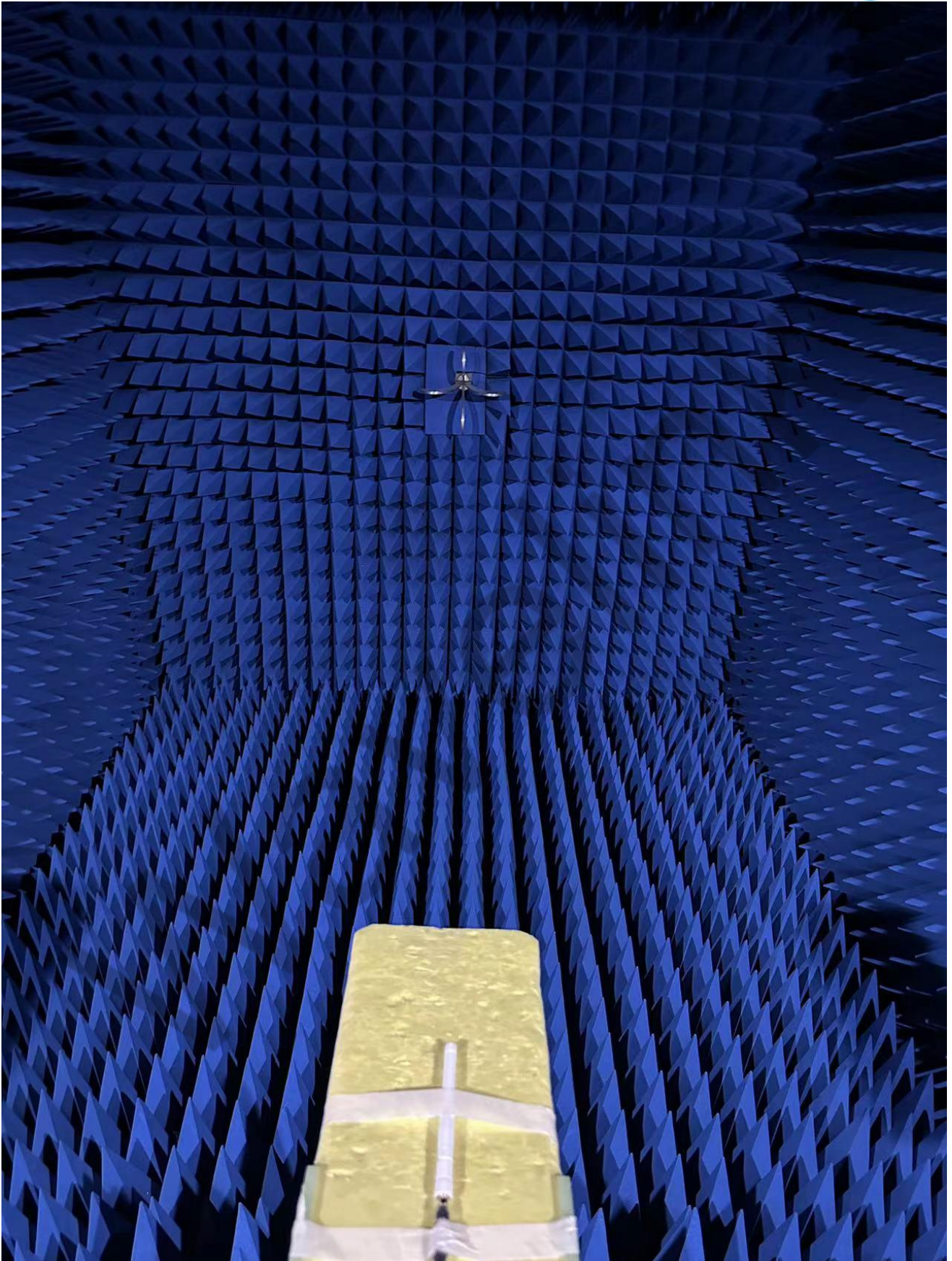
Working Temperature -40°C to $+85^{\circ}\text{C}$

Radome Color Green

4 Overall Performance

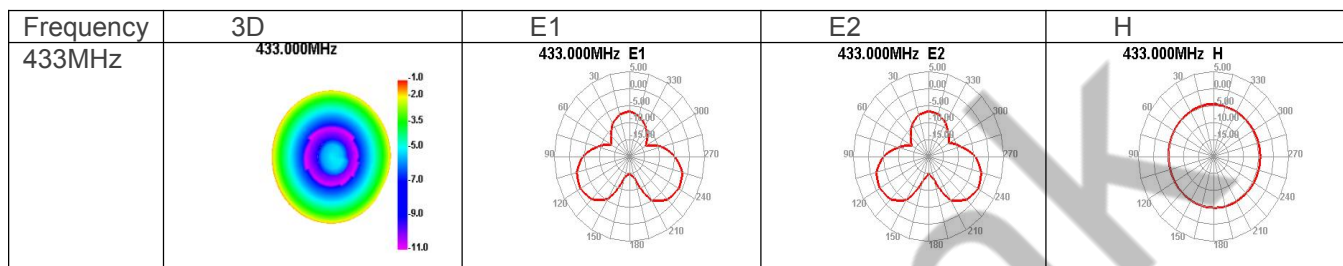
KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz





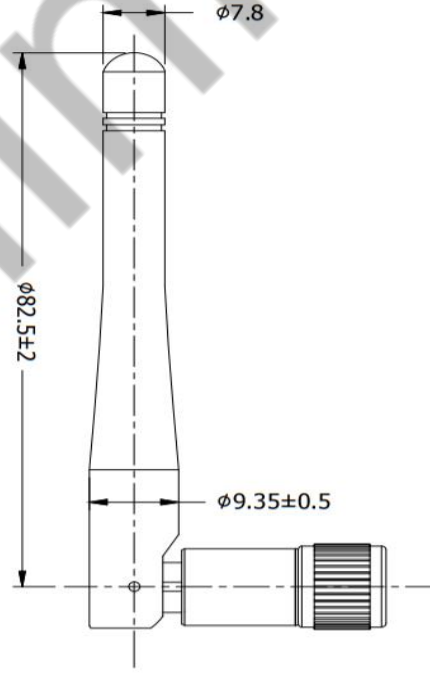
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
400	23.02	-6.38	-2.06	-4.21	-2.06	-14.93	6.38	45	37.59	37.64
401	23.19	-6.35	-2.07	-4.22	-2.07	-14.9	6.35	45	37.51	37.55
402	23.5	-6.29	-2.04	-4.19	-2.04	-14.85	6.29	45	37.42	37.46
403	23.92	-6.21	-2.01	-4.16	-2.01	-14.79	6.21	45	37.33	37.36
404	24.41	-6.12	-1.95	-4.1	-1.95	-14.73	6.12	45	37.25	37.27
405	24.94	-6.03	-1.92	-4.07	-1.92	-14.65	6.03	45	37.16	37.18
406	25.47	-5.94	-1.86	-4.01	-1.86	-14.6	5.94	45	37.08	37.08
407	25.92	-5.86	-1.83	-3.98	-1.83	-14.57	5.86	45	37	36.98
408	26.23	-5.81	-1.83	-3.98	-1.83	-14.55	5.81	45	36.92	36.88
409	26.36	-5.79	-1.85	-4	-1.85	-14.56	5.79	45	36.83	36.77
410	26.3	-5.8	-1.91	-4.06	-1.91	-14.61	5.8	45	36.75	36.67
411	27.55	-5.6	-1.72	-3.87	-1.72	-14.44	5.6	30	36.91	36.82
412	28.73	-5.42	-1.53	-3.68	-1.53	-14.32	5.42	30	37.06	36.97
413	29.92	-5.24	-1.34	-3.49	-1.34	-14.19	5.24	30	37.21	37.11
414	31.19	-5.06	-1.15	-3.3	-1.15	-14.08	5.06	30	37.36	37.26
415	32.62	-4.87	-0.95	-3.1	-0.95	-13.96	4.87	30	37.52	37.41
416	33.17	-4.79	-0.87	-3.02	-0.87	-13.96	4.79	30	37.52	37.43
417	33.89	-4.7	-0.77	-2.92	-0.77	-13.95	4.7	30	37.53	37.45
418	34.76	-4.59	-0.67	-2.82	-0.67	-13.92	4.59	30	37.54	37.48
419	35.74	-4.47	-0.55	-2.7	-0.55	-13.9	4.47	30	37.55	37.5
420	36.74	-4.35	-0.43	-2.58	-0.43	-13.83	4.35	30	37.55	37.52
421	37.12	-4.3	-0.39	-2.54	-0.39	-13.9	4.3	30	37.5	37.47
422	37.29	-4.28	-0.37	-2.52	-0.37	-13.97	4.28	30	37.45	37.42
423	37.19	-4.3	-0.39	-2.54	-0.39	-14.06	4.3	30	37.4	37.37
424	36.78	-4.34	-0.45	-2.6	-0.45	-14.18	4.34	30	37.34	37.32
425	36.13	-4.42	-0.53	-2.68	-0.53	-14.33	4.42	30	37.29	37.27
426	35.95	-4.44	-0.55	-2.7	-0.55	-14.42	4.44	30	37.31	37.32
427	35.72	-4.47	-0.59	-2.74	-0.59	-14.49	4.47	30	37.34	37.36
428	35.55	-4.49	-0.62	-2.77	-0.62	-14.57	4.49	30	37.36	37.41
429	35.55	-4.49	-0.63	-2.78	-0.63	-14.61	4.49	30	37.38	37.45
430	35.8	-4.46	-0.61	-2.76	-0.61	-14.63	4.46	30	37.41	37.5
431	34.7	-4.6	-0.75	-2.9	-0.75	-14.78	4.6	30	37.23	37.32
432	33.88	-4.7	-0.87	-3.02	-0.87	-14.91	4.7	30	37.06	37.14
433	33.24	-4.78	-0.96	-3.11	-0.96	-15	4.78	30	36.89	36.96
434	32.68	-4.86	-1.04	-3.19	-1.04	-15.06	4.86	30	36.72	36.78
435	32.09	-4.94	-1.13	-3.28	-1.13	-15.15	4.94	30	36.55	36.6
436	31.59	-5	-1.2	-3.35	-1.2	-15.19	5	30	36.41	36.47
437	30.87	-5.1	-1.3	-3.45	-1.3	-15.28	5.1	30	36.27	36.33
438	29.9	-5.24	-1.44	-3.59	-1.44	-15.4	5.24	30	36.13	36.2
439	28.71	-5.42	-1.62	-3.77	-1.62	-15.69	5.42	30	36	36.06
440	27.38	-5.63	-1.81	-3.96	-1.81	-16.06	5.63	30	35.86	35.93
441	26.55	-5.76	-1.95	-4.1	-1.95	-16.38	5.76	30	35.81	35.88
442	25.75	-5.89	-2.08	-4.23	-2.08	-16.68	5.89	30	35.76	35.84

443	25.06	-6.01	-2.19	-4.34	-2.19	-16.95	6.01	30	35.71	35.79
444	24.53	-6.1	-2.28	-4.43	-2.28	-17.2	6.1	30	35.66	35.75
445	24.21	-6.16	-2.33	-4.48	-2.33	-17.39	6.16	30	35.62	35.71
446	23.45	-6.3	-2.46	-4.61	-2.46	-17.66	6.3	30	35.45	35.54
447	22.88	-6.41	-2.56	-4.71	-2.56	-17.88	6.41	30	35.29	35.37
448	22.43	-6.49	-2.64	-4.79	-2.64	-18.08	6.49	30	35.12	35.21
449	22.02	-6.57	-2.7	-4.85	-2.7	-18.2	6.57	30	34.96	35.04
450	21.59	-6.66	-2.78	-4.93	-2.78	-18.37	6.66	30	34.79	34.87



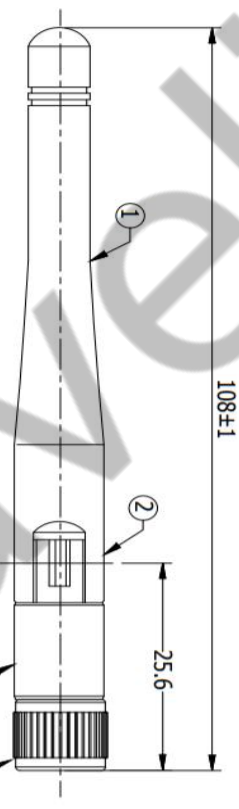
5 Product Size

A		B		C		D		E		F		G	
REV		DATE		DESCRIPTION									
2022.5.20													



Top View Dimensions:

- Total Length: 108 ± 1
- Base Diameter: $\phi 7.8$
- Mounting Hole Diameter: $\phi 9.35 \pm 0.5$



Side View Dimensions:

- Total Length: 108 ± 1
- Base Diameter: $\phi 7.8$
- Mounting Hole Diameter: $\phi 9.35 \pm 0.5$

Specification:

Frequency Range: 433MHz
Impedance: 50Ω
VSWR: 2.0 max
Gain: 3 dbi

XX.	±5.0	APPROVED	CUSTOMER:
X.	±3.0 <td>CHECKED <td>PART NO. :</td> </td>	CHECKED <td>PART NO. :</td>	PART NO. :
.XX	±1.0 <td></td> <td>PART NAME:</td>		PART NAME:
.XXX	±0.5 <td></td> <td>WAVELINK P/NO. : WL-433E108W</td>		WAVELINK P/NO. : WL-433E108W
	±0.1 <td>DRAWING</td> <td>REV</td>	DRAWING	REV
		XuXiaoXiao	UNIT
			mm
			SHEET : 1/1

NO	DESCRIPTION	QTY
4	Connector	1
3	Antenna Base	1
2	Antenna Base	1
1	Antenna Body	1

NO	DESCRIPTION	QTY
4	Connector	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.