

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

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 **VVDN**
TECHNOLOGIES

Tenda **Infinova**

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Hikvision

JABIL

Catalogue

1	Product Description	3
2	Product Features	3
3	Product Specifications	3
4	Overall Performance	4
5	Product Size	7
6	Others	8

1 Product Description

This wavelink antenna covers 868MHz.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	868MHz
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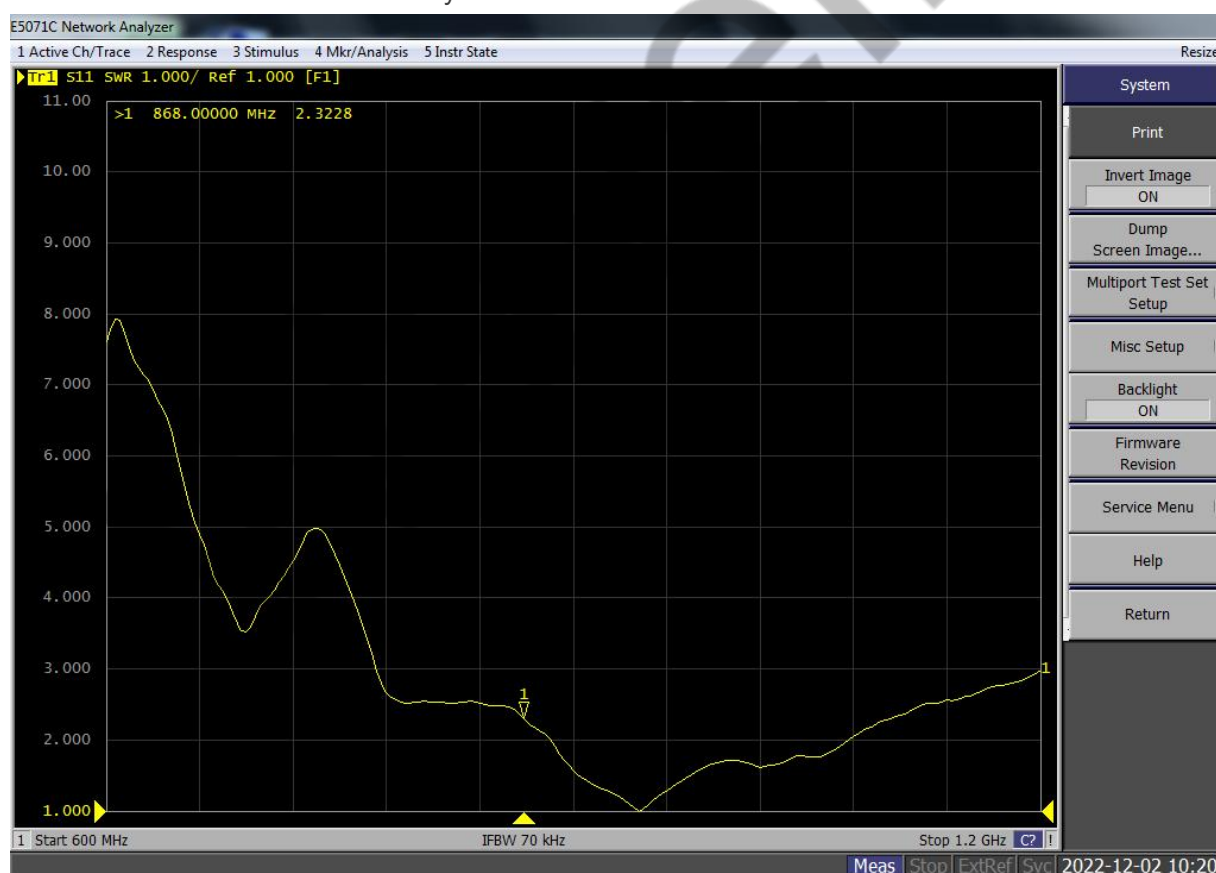
Input Impedance	50 Ω
VSWR	≤ 3
Gain	≤ 1 dBi
Polarization Type	Linear

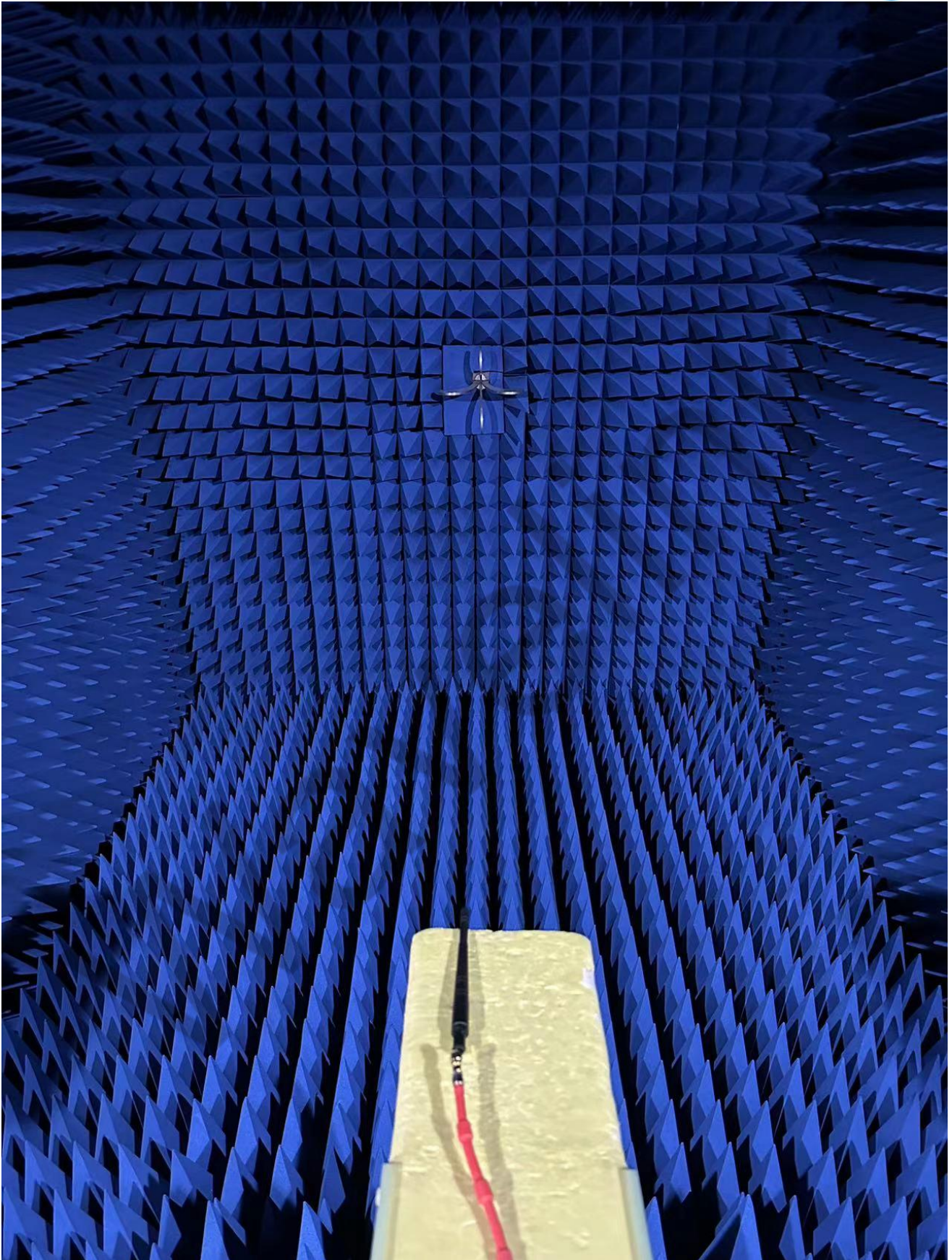
Mechanical Specifications

Antenna Size	152mm $\times$ 13mm
Connector Type	I-PEX
Working Temperature	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Radome Color	Black

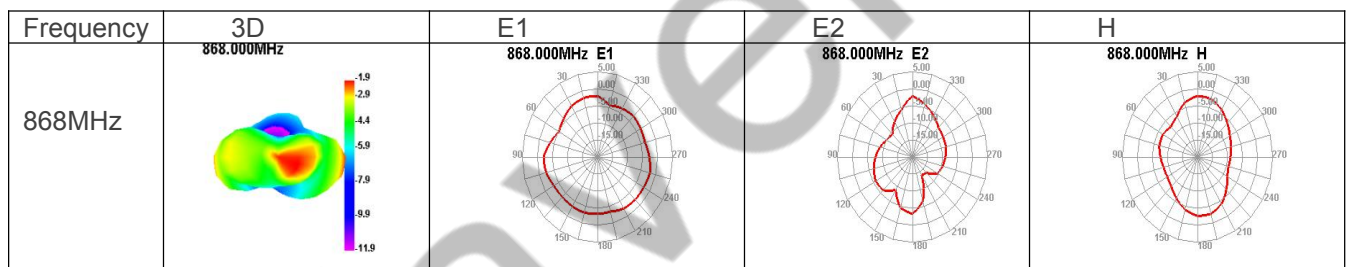
4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz





Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
850	22.6	-6.46	-2.59	-4.74	-2.59	-14.26	3.86	37.95	37.95
852	23.67	-6.26	-2.39	-4.54	-2.39	-14.04	3.87	38.06	38.07
854	25.1	-6	-2.13	-4.28	-2.13	-13.78	3.87	38.17	38.18
856	26.64	-5.74	-1.88	-4.03	-1.88	-13.47	3.86	38.27	38.3
858	27.87	-5.55	-1.72	-3.87	-1.72	-13.28	3.83	38.37	38.4
860	28.44	-5.46	-1.72	-3.87	-1.72	-13.21	3.74	38.46	38.51
862	27.92	-5.54	-1.87	-4.02	-1.87	-13.29	3.67	38.48	38.52
864	27.44	-5.62	-1.95	-4.1	-1.95	-13.42	3.67	38.5	38.53
866	27.19	-5.66	-1.94	-4.09	-1.94	-13.68	3.71	38.52	38.54
868	27.24	-5.65	-1.94	-4.09	-1.94	-13.89	3.71	38.54	38.56
870	27.59	-5.59	-1.91	-4.06	-1.91	-14.04	3.69	38.56	38.57
872	28.44	-5.46	-1.79	-3.94	-1.79	-14.14	3.67	38.64	38.65
874	29.03	-5.37	-1.71	-3.86	-1.71	-14.26	3.66	38.72	38.74
876	29.22	-5.34	-1.69	-3.84	-1.69	-14.43	3.65	38.84	38.85
878	28.96	-5.38	-1.68	-3.83	-1.68	-14.52	3.7	38.98	38.99
880	28.43	-5.46	-1.62	-3.77	-1.62	-14.61	3.84	39.13	39.13



5 Product Size

REV	DATE	DESCRIPTION
X1		

Specification:

Frequency Range: 868MHz

Impedance: 50Ω

VSWR: < 3

CUSTOMER'S SIGNATURE		APPROVED		CUSTOMER:		PART NO. :		DESCRIPTION		QTY		REMARK	
XX ± 3.0		X ± 2.0		CHECKED		PARTNAME:		WAVELINK P/NO. : WL-868E152-20		REV		UNIT	
XX ± 1.0		X ± 1.0		DRAWING		XI		m/m		SHEET : 1/1			
XX ± 0.5		XX ± 0.1											
XX ± 0.1		XX ± 0.1											

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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.