

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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TECHNOLOGIES

Tenda **Infinova**

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JABIL

Catalogue

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1 Product Description

This wavelink antenna covers 915MHz.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	915 MHz
Input Impedance	50 Ω
VSWR	≤ 2
Gain	≤ 1 dBi

Polarization Type Linear

Mechanical Specifications

Antenna Size 165mm × 11.5mm

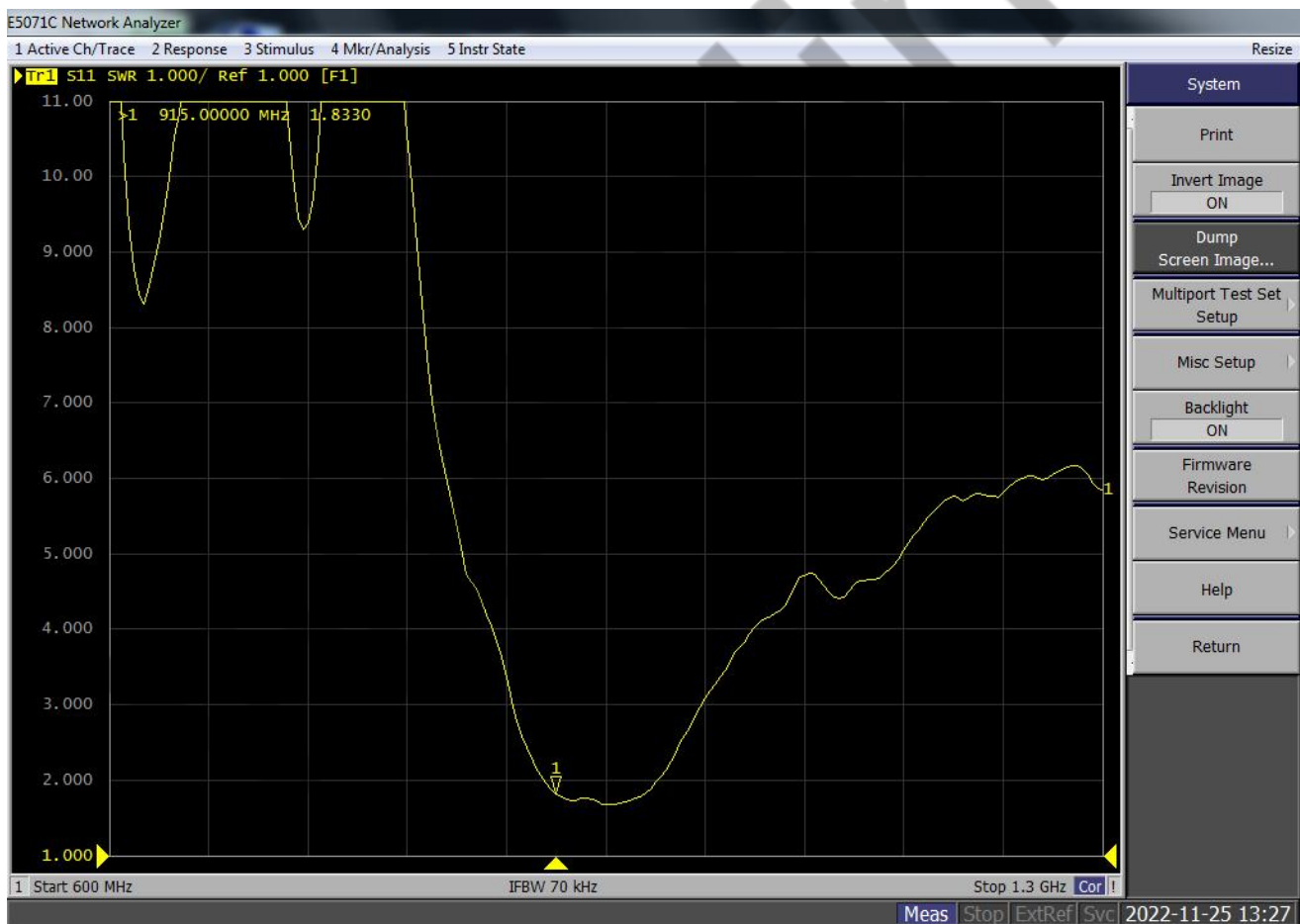
Connector Type SMA

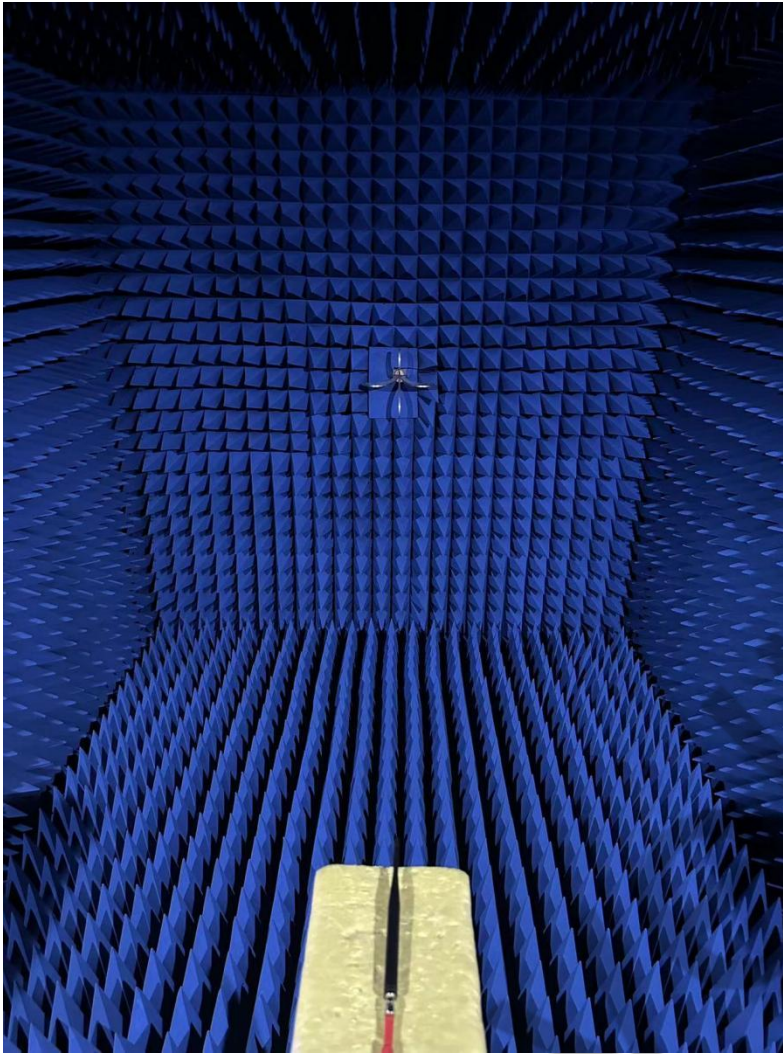
Working Temperature -40 °C to +85 °C

Radome Color Black

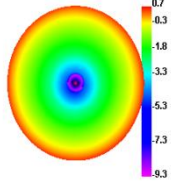
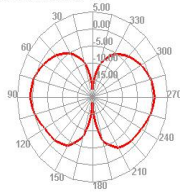
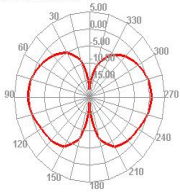
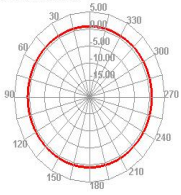
4 Overall Performance

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)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
900	66.93	-1.74	0.31	-1.84	0.31	-20.15	2.05	75	39.82	39.71
905	71.95	-1.43	0.6	-1.55	0.6	-18.66	2.03	75	39.98	39.85
910	71.79	-1.44	0.58	-1.57	0.58	-18.27	2.02	75	40.04	39.93
915	73.49	-1.34	0.72	-1.43	0.72	-18.52	2.05	75	40.14	40.04
920	74.8	-1.26	0.85	-1.3	0.85	-18.76	2.11	75	40.17	40.07

Frequency	3D	E1	E2	H
915MHz	<p>915.000MHz</p> 	<p>915.000MHz E1</p> 	<p>915.000MHz E2</p> 	<p>915.000MHz H</p> 

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5 Product Size

A		B		C		D		E		F		G	
REV		DATE		DESCRIPTION									
X1													

X		± 2.0		APPROVED		CUSTOMER:		昆山市海宣电子有限公司 Kunshan Wavelink Electronics Co., Ltd.	
X		± 1.0		CHECKED		PARTNAME: Antenna Assembly			
XX		± 0.5							
XXX		± 0.1		DRAWING					
WSY									
X1		m/m		SHEET : 1/1					

Specification:

Frequency Range: 915MHz

Free space VSWR: <2

Impedance: 50 Ω

The drawing shows a side view of a tapered antenna. The main body is a long, thin cylinder that tapers from a wider base to a narrower tip. The total length is dimensioned as 165±2mm. The base of the antenna is dimensioned as 11.5±1mm. The antenna is shown with a small flange at the base.

6 Others

DESCRIPTION	SPECIFICATION
Temperature /Humidity cycling	<p>1, The device under test is kept for 30 mins in an environment with a temperature of -40 °C.</p> <p>2, Kept for 4 Hours in an environment with a temperature of 8cthe conditions are stabilized at room temperature.</p> <p>3, Parts should meet RF spec before and after test.</p> <p>4, No cosmetic problem(No soldering problem;No adhesion problem of glue).</p>
Temperature Shock	<p>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.</p> <p>2, Parts should meet RF spec before and after test.</p> <p>3, No cosmetic problem(No soldering problem; No adhesion problem of glue).</p>
High Temperature	<p>1, Temperature:125°C, time:1008 hours</p> <p>2, There is no substantial obstruction to air flow across and around the samples, and the samples are not touching each other</p> <p>3, Parts should meet RF spec before and after test.</p> <p>4, No cosmetic problem(No soldering problem; No adhesion problem of glue).</p>
Salt mist test	<p>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.</p> <p>2, Parts should meet RF spec before and after test.</p> <p>3, No visible corrosion. Discoloration accept.</p>