

# 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

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Wavelink

## 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	915MHz
Input Impedance	50 $\Omega$

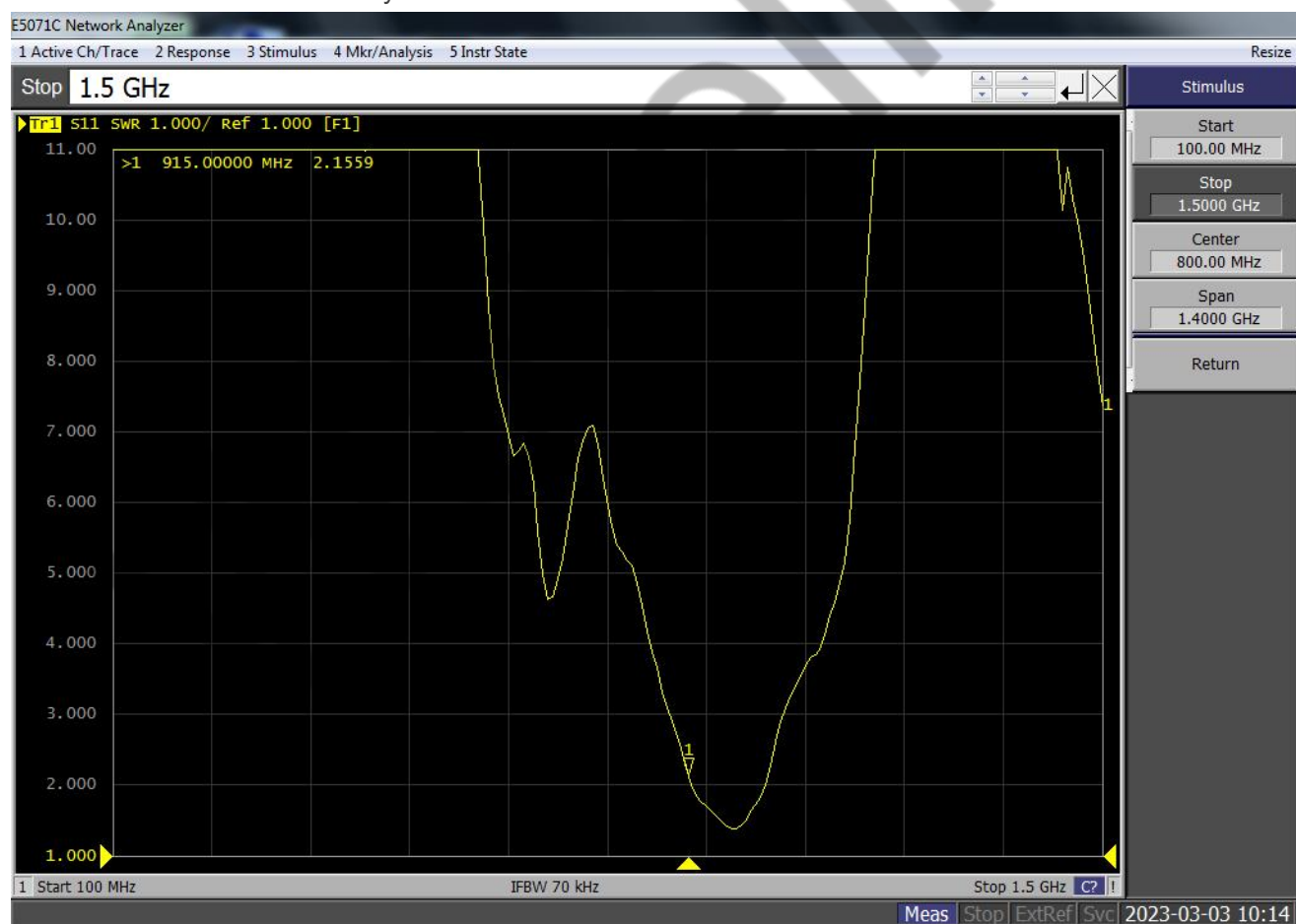
VSWR	<2.5
Gain	≤1 dBi
Polarization Type	Linear

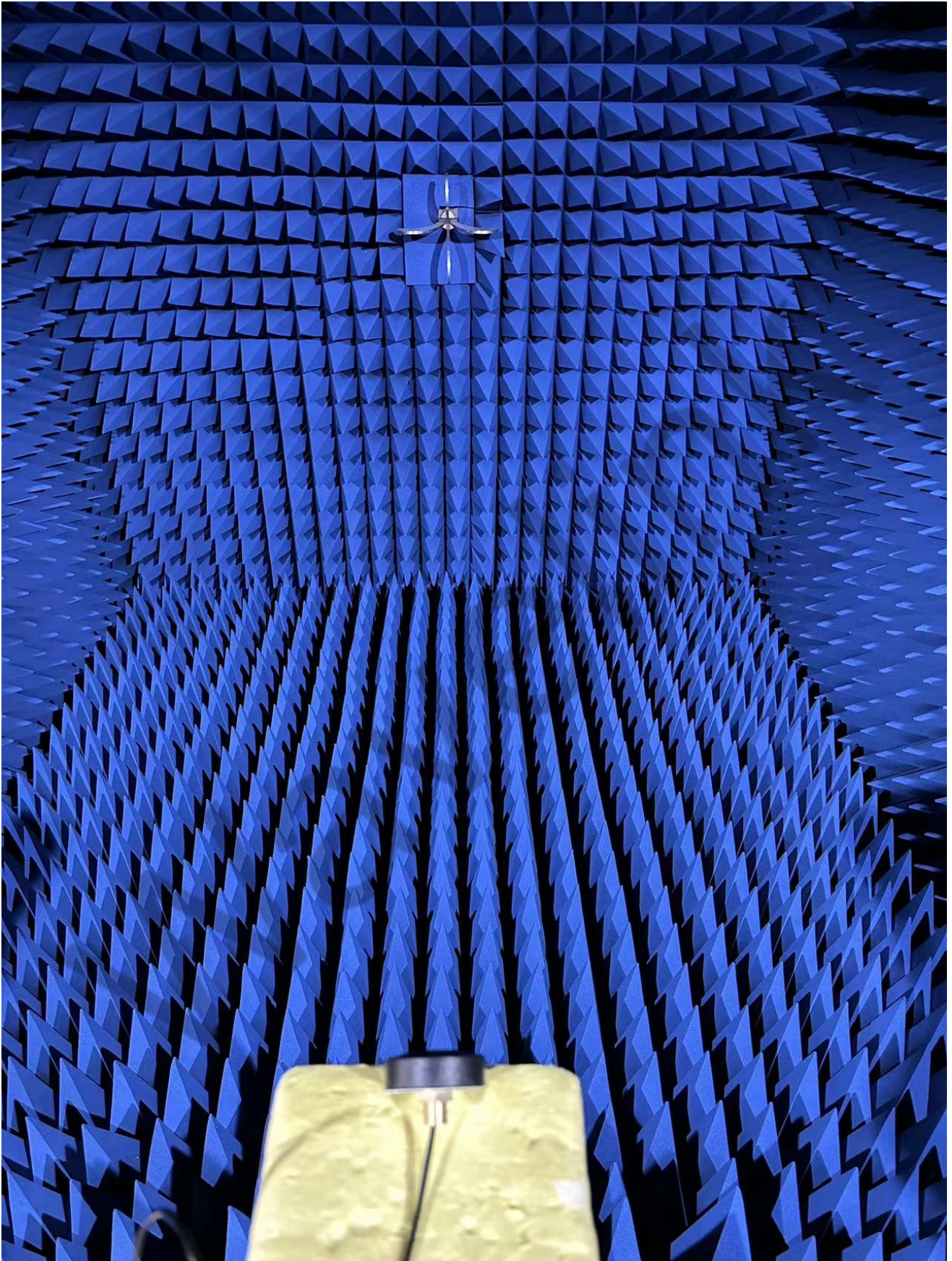
### Mechanical Specifications

Antenna Size	46mm ×15mm
Connector Type	SMA
Working Temperature	-40 °C to +85 °C
Radome Color	Black

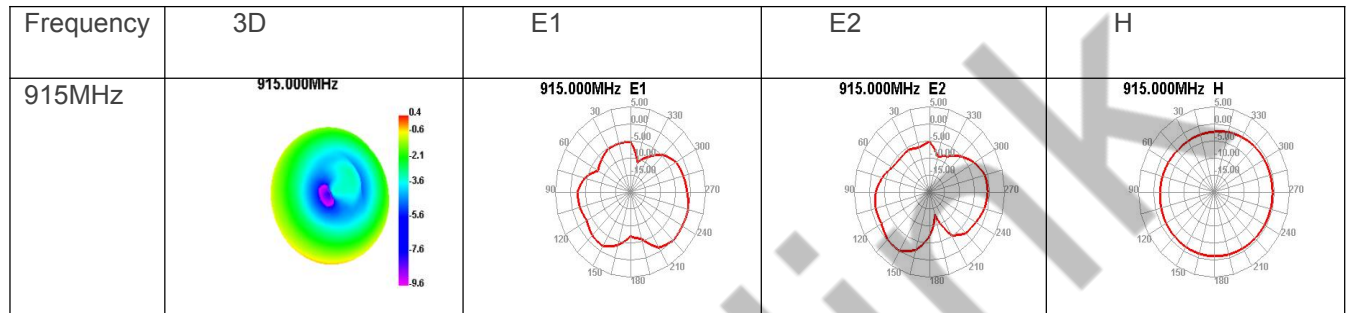
## 4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz

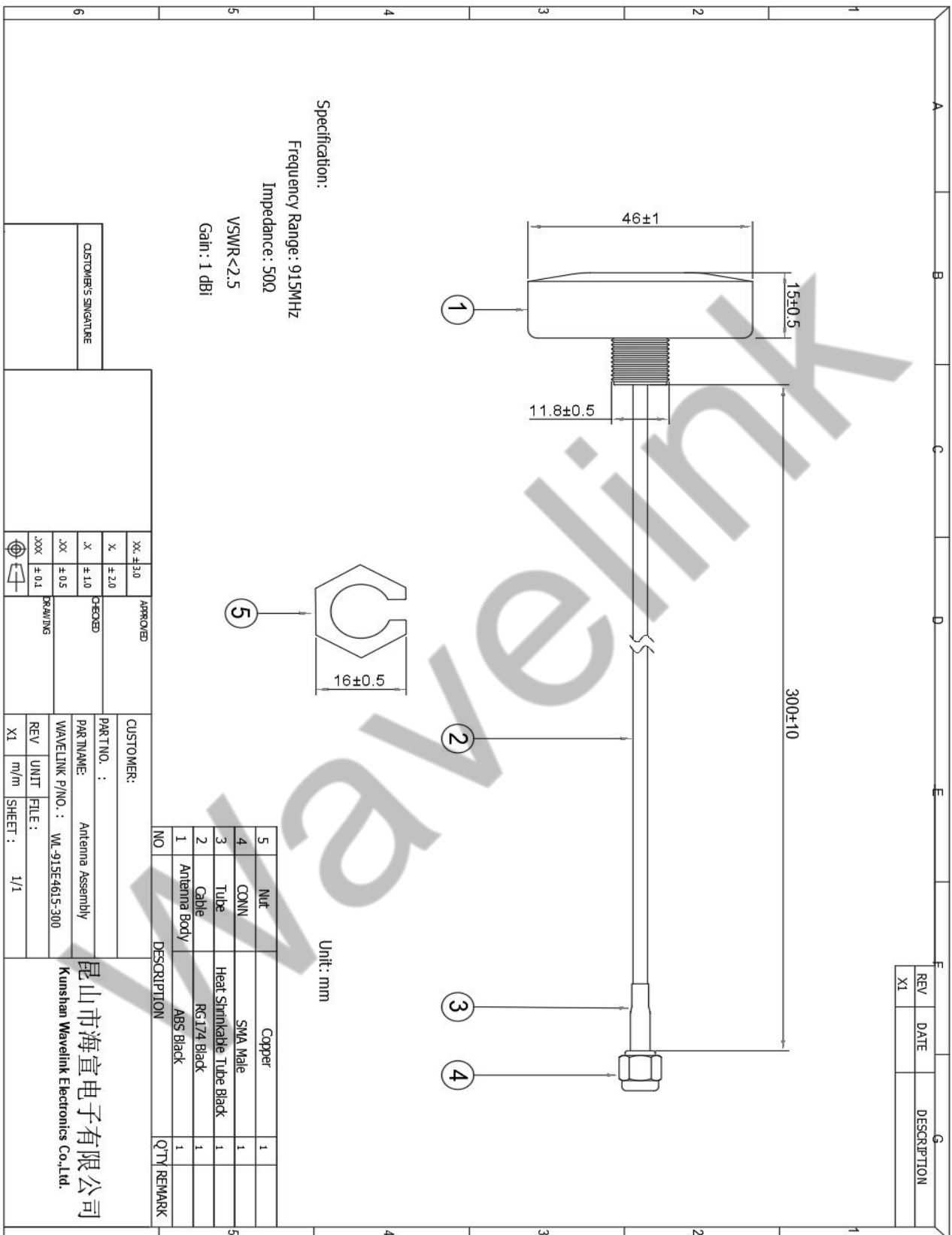




Passive Test For 915										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
900	53.9	-2.68	0.21	-1.94	0.21	-13.41	2.9	90	39.79	39.68
905	54.97	-2.6	0.3	-1.85	0.3	-13.82	2.9	90	40	39.87
910	55.42	-2.56	0.35	-1.8	0.35	-14.48	2.91	90	40.06	39.95
915	55.12	-2.59	0.38	-1.77	0.38	-14.69	2.96	90	40.13	40.03
920	54.16	-2.66	0.36	-1.79	0.36	-14.7	3.02	90	40.18	40.08



## 5 Product Size



## 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>