

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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Email: sales@kswavelink.com

Wavelink Certifications:



Wavelink Partners:

Skyworth **NARI**

flex

 **HUAWEI**

 **VVDN**
TECHNOLOGIES

Tenda **Infinova**

dji

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 GPS L1&BD B1.

2 Product Features

Easy to install
High efficiency
Removable



3 Product Specifications

Passive Electrical Specifications

Frequency Range	1561.098MHz/1575.42MHz
Input Impedance	50 Ω
VSWR	≤ 2

Gain ≤ 2 dBi

Polarization Type Linear

Mechanical Specifications

Antenna Size 200 mm $\times$ 20 mm

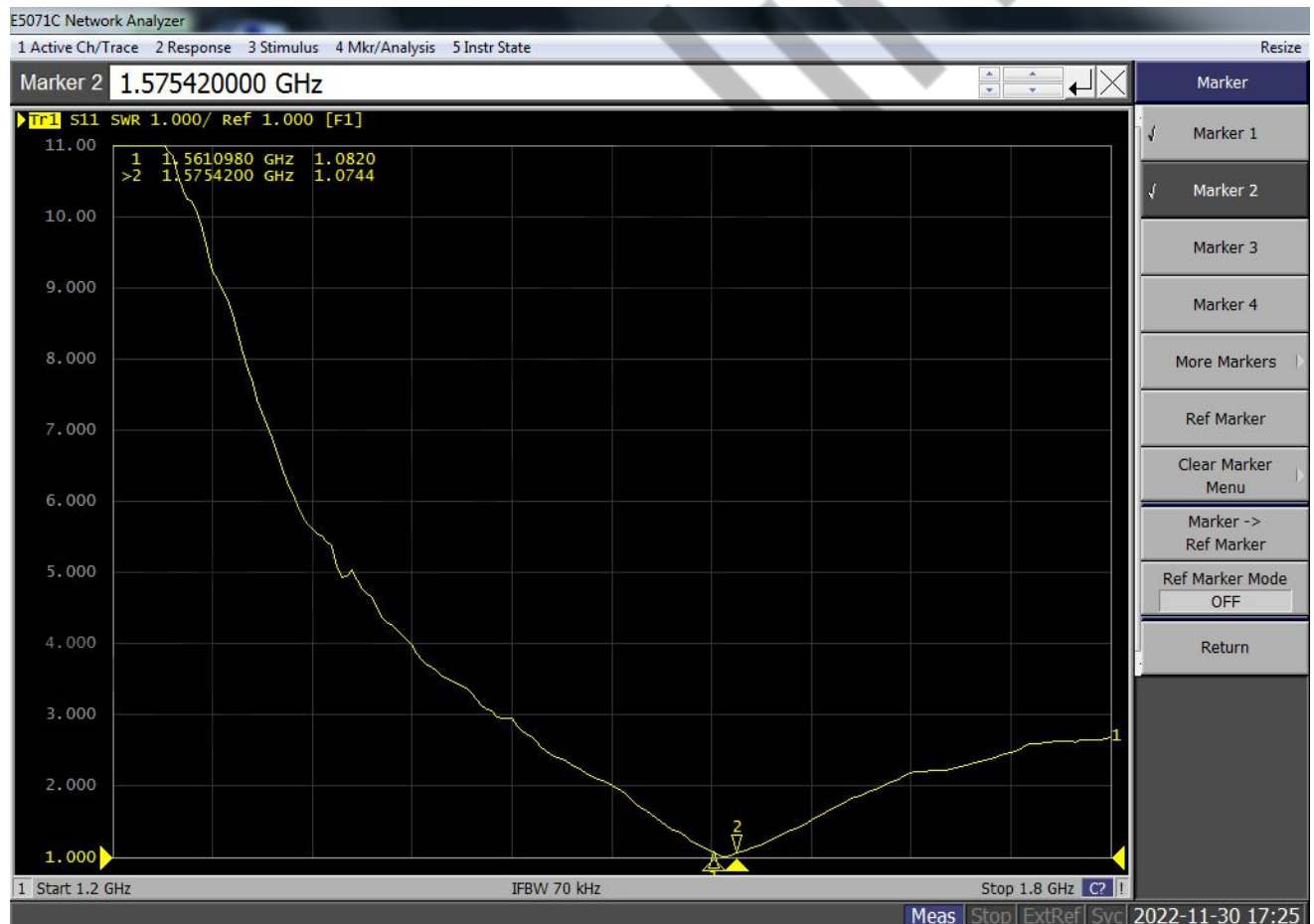
Connector Type N Male

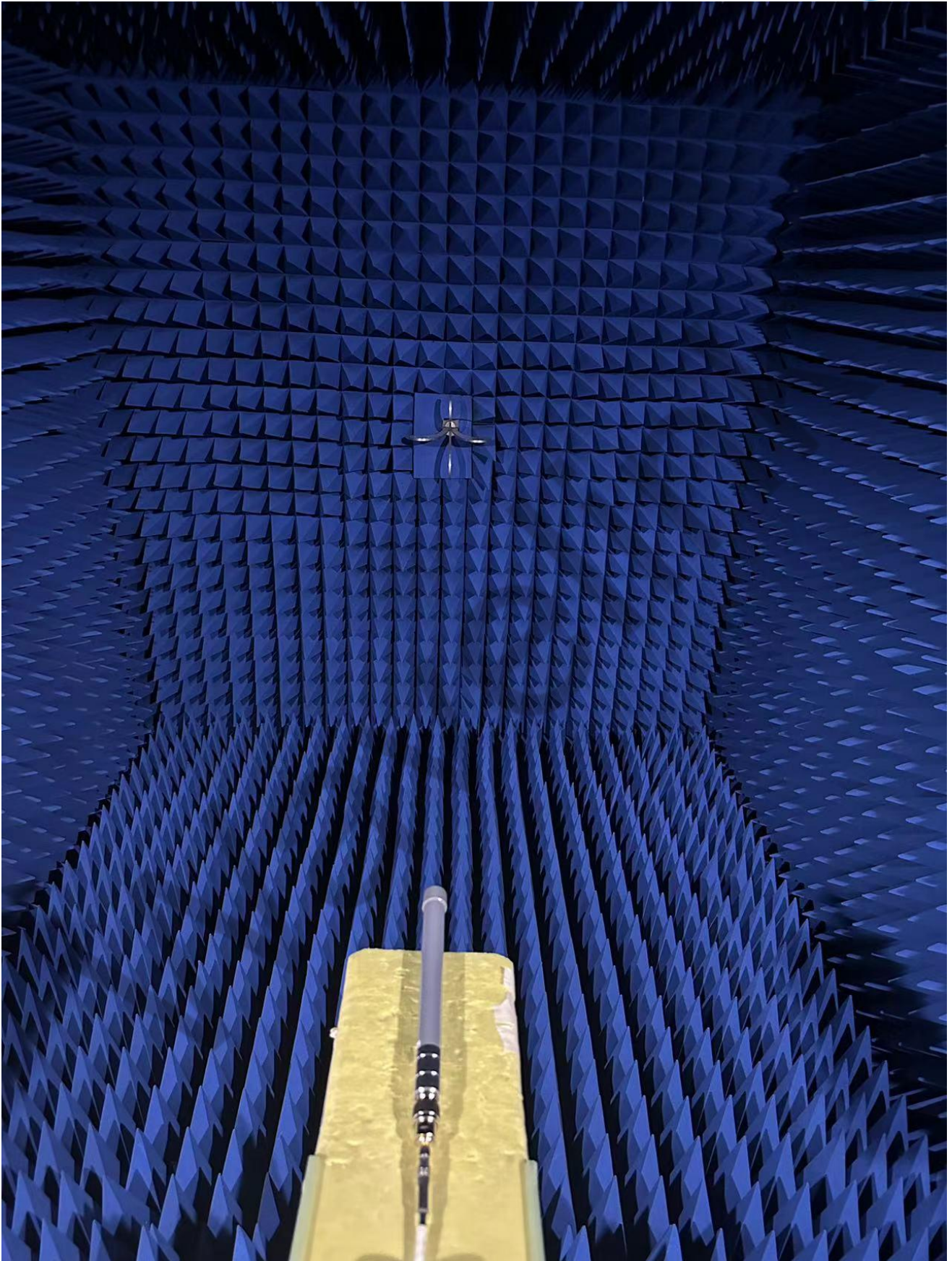
Working Temperature -40 $^{\circ}\text{C}$ to $+85$ $^{\circ}\text{C}$

Radome Color Gray

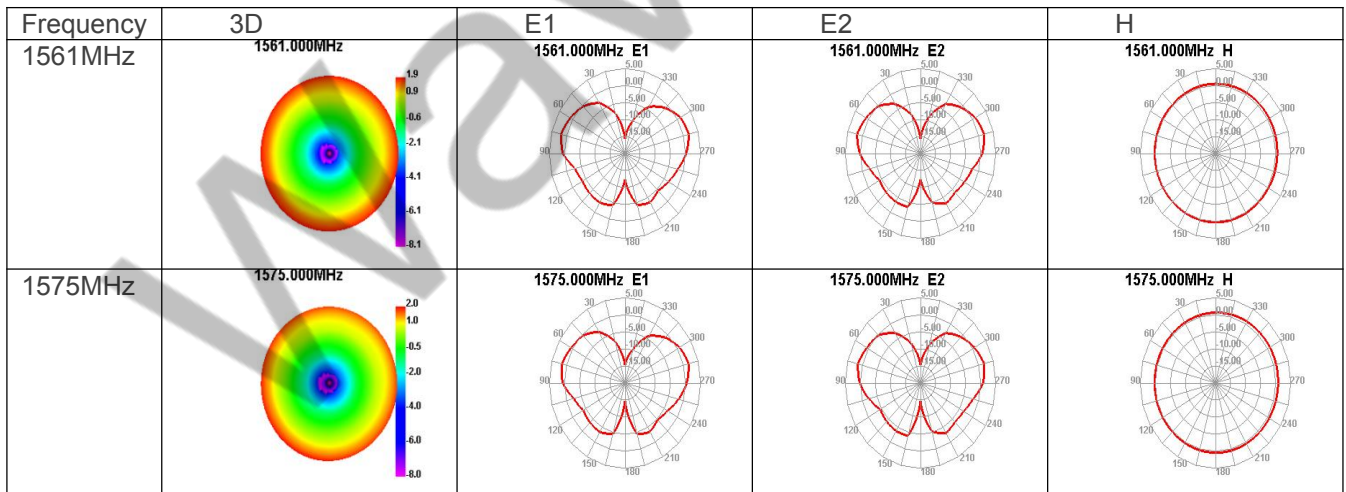
4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz

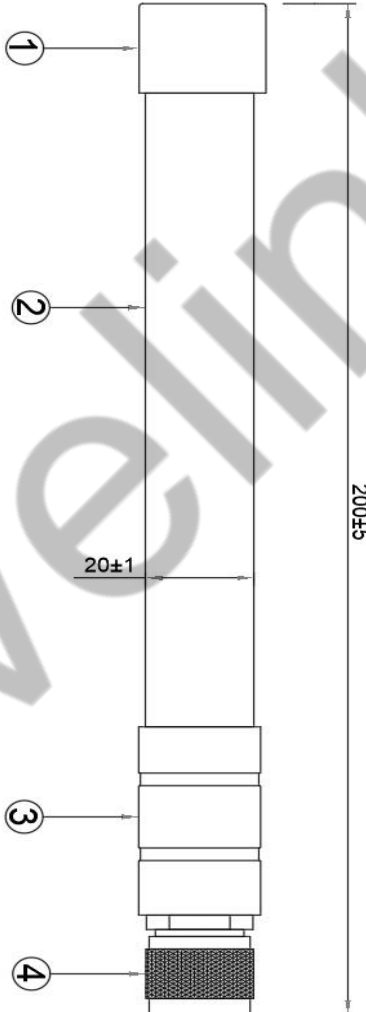




Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Directivity (dBi)	AttH (dB)	AttV (dB)
1560	79.51	-1	1.92	-0.23	1.92	-15.65	2.91	42.04	42.19
1561	79.48	-1	1.93	-0.22	1.93	-15.6	2.92	42.03	42.18
1562	79.43	-1	1.94	-0.21	1.94	-15.55	2.94	42.03	42.17
1563	79.37	-1	1.94	-0.21	1.94	-15.51	2.95	42.02	42.17
1564	79.32	-1.01	1.95	-0.2	1.95	-15.46	2.96	42.02	42.16
1565	79.29	-1.01	1.95	-0.2	1.95	-15.45	2.96	42.01	42.15
1566	79.16	-1.02	1.96	-0.19	1.96	-15.36	2.97	42	42.14
1567	79.04	-1.02	1.96	-0.19	1.96	-15.31	2.98	41.99	42.13
1568	78.91	-1.03	1.97	-0.18	1.97	-15.29	2.99	41.98	42.12
1569	78.8	-1.03	1.96	-0.19	1.96	-15.27	2.99	41.96	42.1
1570	78.66	-1.04	1.96	-0.19	1.96	-15.22	3	41.95	42.09
1571	78.77	-1.04	1.97	-0.18	1.97	-15.09	3.01	41.96	42.1
1572	78.82	-1.03	1.97	-0.18	1.97	-14.98	3.01	41.96	42.11
1573	78.78	-1.04	1.97	-0.18	1.97	-14.86	3.01	41.97	42.13
1574	78.65	-1.04	1.96	-0.19	1.96	-14.77	3.01	41.97	42.14
1575	78.43	-1.05	1.96	-0.19	1.96	-14.71	3.02	41.98	42.15
1576	78.44	-1.05	1.95	-0.2	1.95	-15.01	3.01	42	42.16
1577	78.42	-1.06	1.96	-0.19	1.96	-15.21	3.01	42.02	42.18
1578	78.4	-1.06	1.95	-0.2	1.95	-15.32	3.01	42.05	42.19
1579	78.39	-1.06	1.94	-0.21	1.94	-15.4	3	42.07	42.21
1580	78.38	-1.06	1.95	-0.2	1.95	-15.61	3	42.09	42.22



5 Product Size

		A		B		C		D		E		F		G																										
												REV		DATE																										
														DESCRIPTION																										
												X1		2021.11.27																										
																																								
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CUSTOMER'S SIGNATURE		APPROVED										CUSTOMER:																												
CHECKED		DRAWING										PART NO. :																												
XXX ± 3.0		XX ± 2.0										PARTNAME:																												
X ± 1.0		XX ± 0.5										WAVELINK P/NO. : WL-GPSBDE20200																												
XXX ± 0.1		DRAWING										REV UNIT FILE:																												
1/1		1/1										SHEET:																												
昆山市海宜电子有限公司 Kunshan Wavelink Electronics Co., Ltd.																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO</th> <th>Material code</th> <th>DESCRIPTION</th> <th>QTY</th> <th>REMARK</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>CONN</td> <td>C1700001</td> <td>N Male</td> <td>1</td> </tr> <tr> <td>3</td> <td>Antenna Base</td> <td>C1600001</td> <td>Aluminium sleeve</td> <td>1</td> </tr> <tr> <td>2</td> <td>Antenna Body</td> <td>C1300009</td> <td>Fiberglass tube</td> <td>1</td> </tr> <tr> <td>1</td> <td>Hat</td> <td>C1800001</td> <td>Fiberglass hat</td> <td>1</td> </tr> </tbody> </table>																NO	Material code	DESCRIPTION	QTY	REMARK	4	CONN	C1700001	N Male	1	3	Antenna Base	C1600001	Aluminium sleeve	1	2	Antenna Body	C1300009	Fiberglass tube	1	1	Hat	C1800001	Fiberglass hat	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 8the 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.