

## Electrical Specifications

### 1. ANTENNA

Parameters	Specification	Unit
Frequency Range	L1: 1575.42 ± 1.023 B1: 1561.098±2.046 GLONASS: 1601.02±1.15	MHz
VSWR, max	2.0	-
Bandwidth, min	20	MHz
Impedance	50	Ω
Gain (based on 70x70mm ground plane)	5	dBic
Polarization	RHCP	-
Operating Temperature Range	-40 ~ +80	°C
Storage Temperature Range	-45 ~ +85	°C

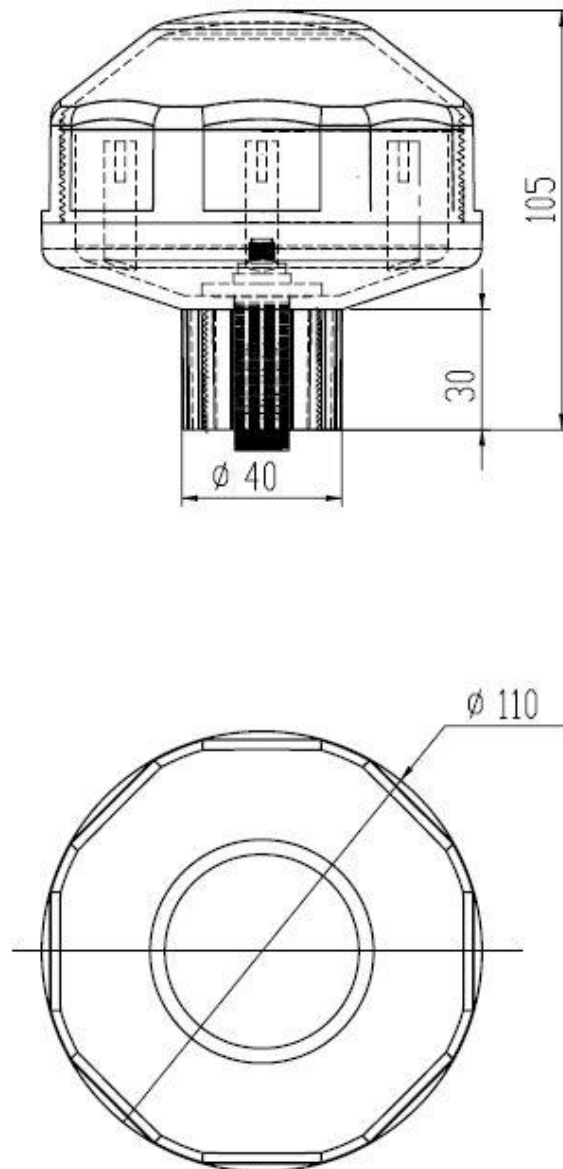
### 2. LNA

Parameters	Specification	Unit
Frequency Range	L1: 1575.42 ± 1.023 B1: 1561.098±2.046 GLONASS: 1601.02±1.15	MHz
DC Voltage	3.0 ~ 5.0	V
Gain	38 ± 3	dB
VSWR, max	1.5	-
DC Current, typ	28±3	mA

### 3. OVERALL

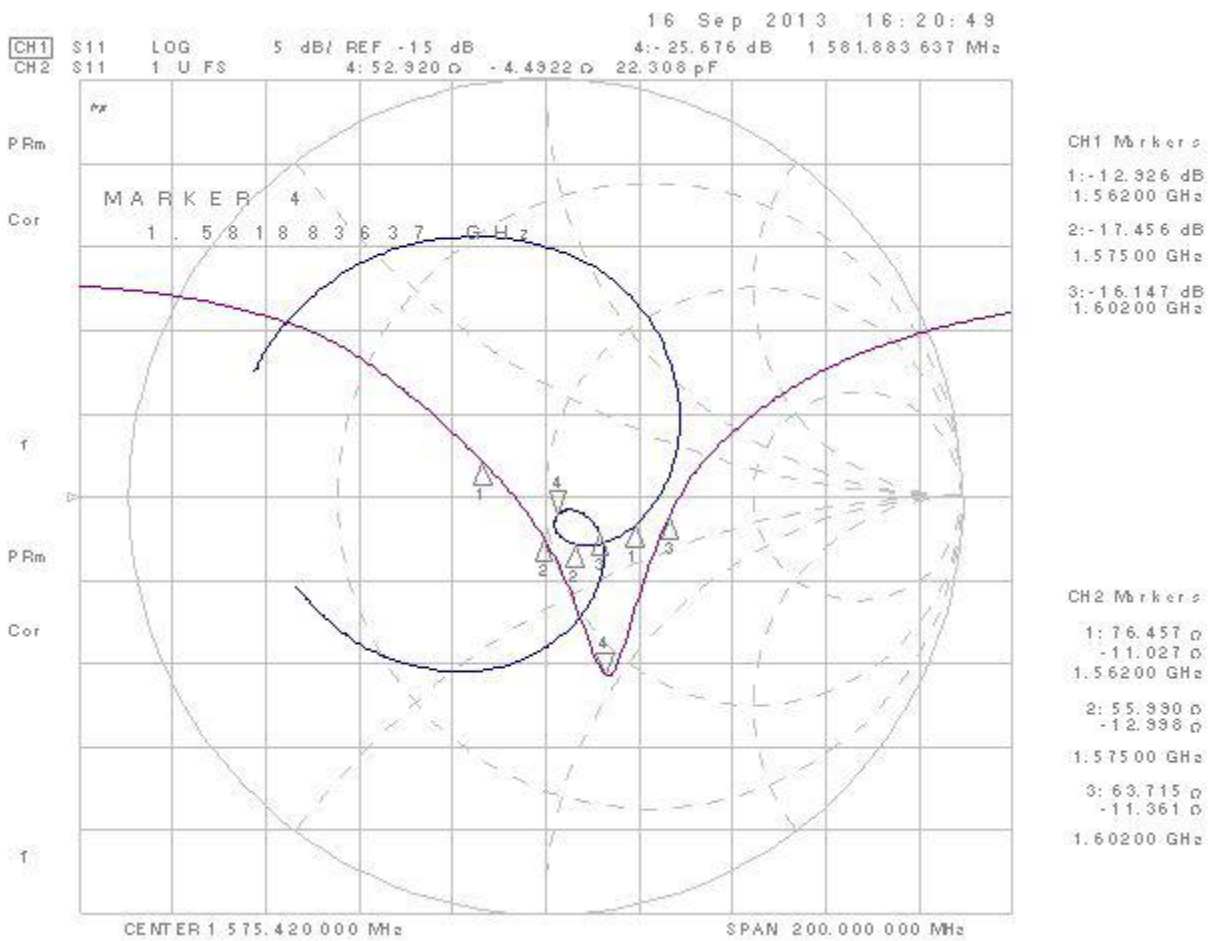
Parameters	Specification	Unit
Frequency Range	L1: 1575.42 ± 1.023 B1: 1561.098±2.046 GLONASS: 1601.02±1.15	MHz
Output VSWR, max	2	-
Gain	37 ± 3	dBic
Impedance	50	Ω
Connector	N type, Female	-

**Mechanical Characteristics**

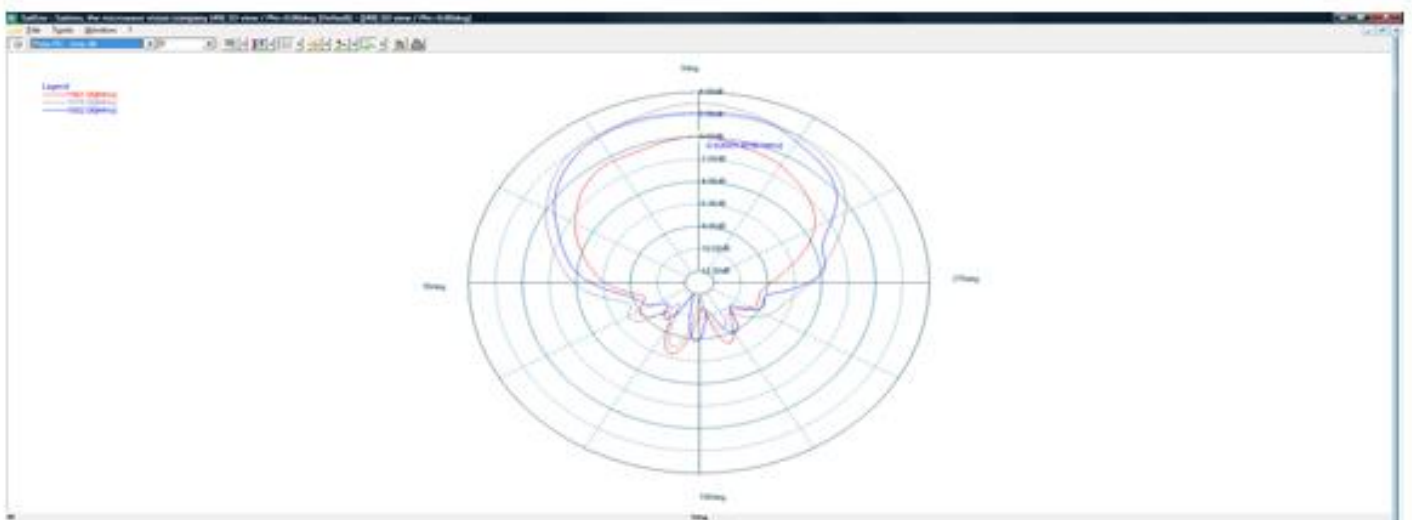


**Frequency Characteristics**

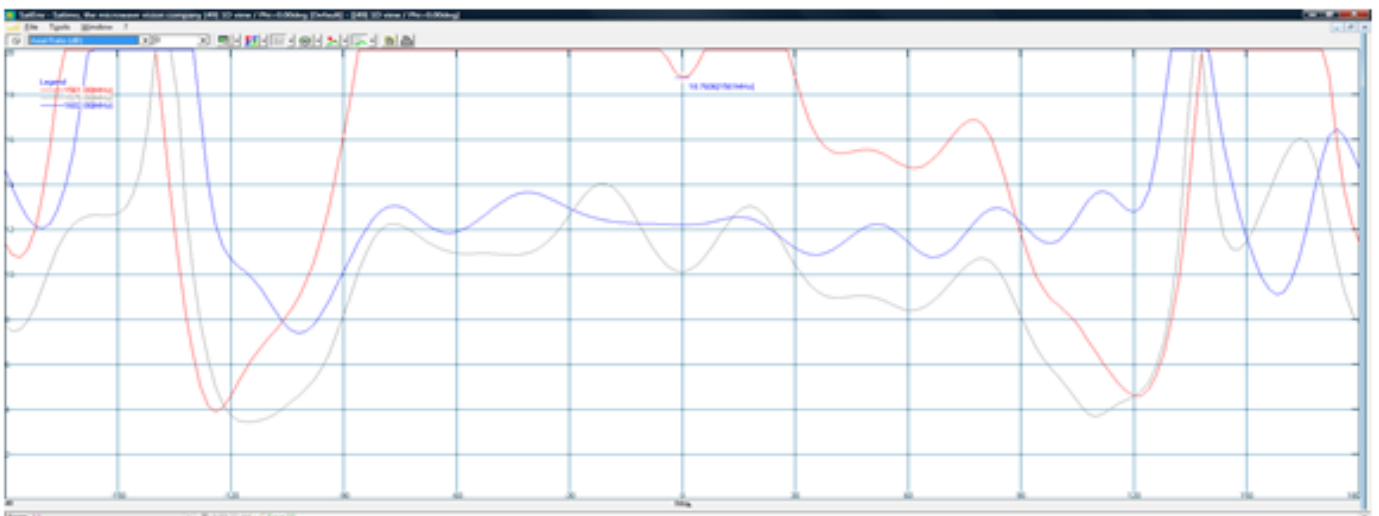
**ANTENNA TEST CURVE**



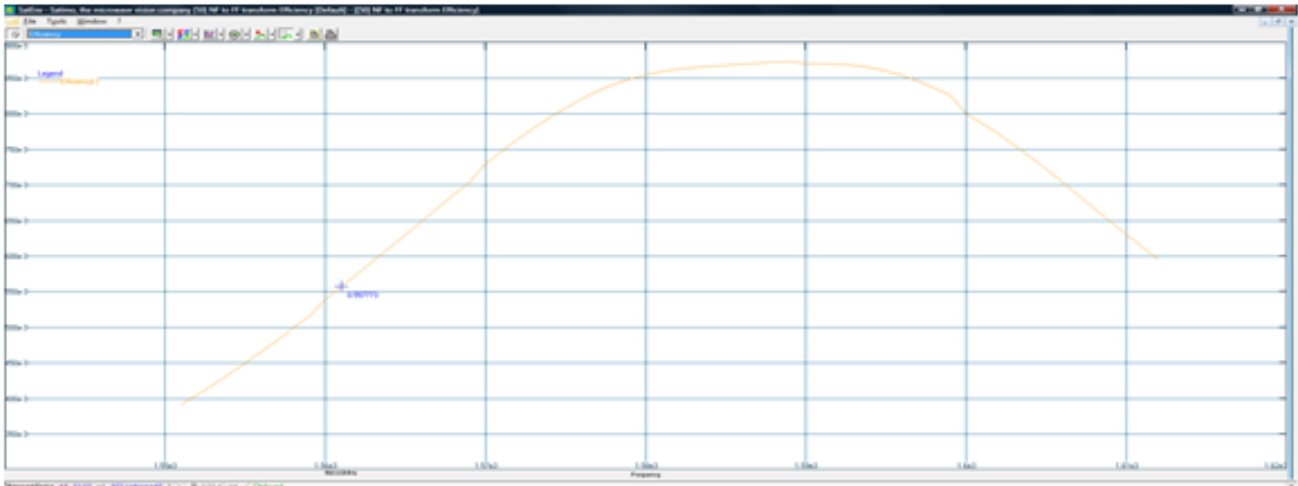
**GAIN**



**AXIAL RATIO**



**EFFICIENCY**



**TEST RESULTS**

Antenna	Frequency (MHz)	Gain (db)	Axial ratio (db)	Efficiency
1	1575	2.9	10.11	80%
2	1561	0	18.7	55%
3	1602	2.0	12.2	77%

**APPROVAL**

DRAWN BY	CP, February 01, 2016
APPROVED BY	CP, February 01, 2016
REVISION	A, Initial Release
	B, CP September 01, 2016 Added Gain, Axial Ratio, Efficiency, Test results

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