



Milesight Antenna

868 Mhz 5.8 dbi

IoSphere 5.8 dbi fiberglass antenna is suitable for LoRa devices. It supports the 868 Mhz frequency, which is the European standard. It can work in cold and hot environments such as between -20°C~+85°C.



Mechanical Characteristics

1. Bending Test

Putting it 30cm away from the connector and load on 120g. Making bending test after fixing the connector. The swing angle is about 60 degree. Testing the characteristics after swing 1000 times.

Result: No sign of damage displayed in electrical and mechanical performance after swinging 1000 time.

2. Streng Test

Putting a 15 pounds static load on the end of the cable and last for 1 minute. No sign of damage displayed in electrical and mechanical performance.

3. Pulling Force

Measure the pulling force between connector and cable with a tensimeter. No sign of damage displayed in electrical performance under the pulling force of 7kg.

4. Vibration Test

The amplitude is 1.10mm and the vibration frequency is 33.30hz/sec. First, vibration in x direction for 120 minutes. Then vibration in y direction for 120 minutes. Last, vibration in z direction for 240 minutes. No sign of damage displayed in electrical performance.



Durability

1. Heat Test

85+2°C for 96 hours, after keep in normal condition for 30mm the to test.

2. Humidity Test

40+2°C 90-95%RH for 96 hours, after keep in normal condition for 30mm the to test.

3. Cold Test

-40+2°C for 96 hours, after keep in normal condition for 30mm the to test.

All characteristic range is 30% of the initial value.

Product Technical Specification

Frequency Range (Mhz)	868
Tape Width (Mhz)	70
Input Impedance	50
V.S.W.R	≤1.5
Gain (dBi)	5.8
Polarization Type	Vertical Polarization
Radiation Direction	Completely
Half Power Corner	H 360° / E 8°
Max Input Power	100
Antenna Size	23x800
Antenna Cover Meterial	Glass Fibre
Connect Type	N-Type
Operating Temperature	-20°C ~ +85°C
Storing Temperature	-40°C ~ +85°C
Mounting	U bracket installation
Lightning Protection	DC grounding
Wind Resistance	60m/s
Pole	φ 25 ~ φ 50 mm
Weight (g)	360