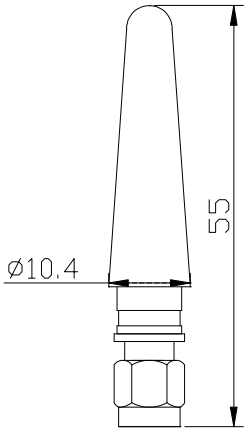
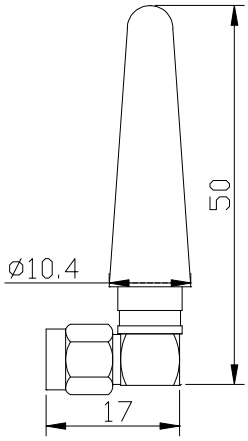
GSM Antenna

1. Model：　　AGM015DS　　AGM015D

Pictures not to Scale

2　Dimension（Unit：mm）





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3 Electrical Characteristics

3.1 Dielectric Antenna

Form 1

No.	Item	Specifications	Post Environmental Tolerance
1	Frequency（MHz）	824～960MHz/1710～1990MHz	±3 MHz
2	V.S.W.R（in BW ）	≤2.0：1	—
3	Gain（Zenith）	2dBi max	±0.5dB
4	Polarization	Vertical	—
5	Impedance	50Ω	—

3.2 Mechanical

Form 2

No.	Item	Specification
1	Cable	N/A
2	Connector	SMA- Male
3	Plastic Housing	Black or others
5	Size	Φ9×55mm orΦ9×50mm

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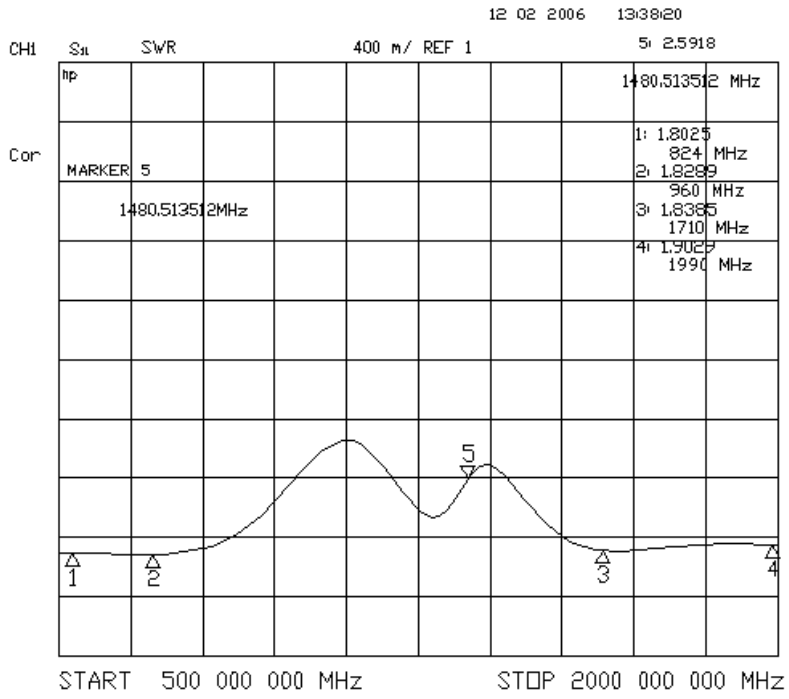
4. **Characteristic Curve**

4.1 Frequency Characteristic Curve



5. Reliability

Condition：

Temperature: 40±5℃

Load: DC=5V±0.5 V

Quantity: 2000pcs

Sustained Time: 480h

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6. Environmental Specifications

Condition：

Post Environmental Tolerance (Refer to the table 1)

Temperature range 25±3℃

Relative Humidity range 55~75%RH

Operating Temperature range -40℃~+85℃

Storage Temperature range -40℃~+100℃

6.1 Moisture Proof

The device should satisfy the electrical characteristics specified in paragraph 3.1~ after exposed to the temperature 40±2℃and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.

6.2 Vibration Resist

The device should satisfy the electrical characteristics specified in paragraph 3.1~ after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X , Y and Z directions.

6.3 Drop Shock

The device should satisfy the electrical characteristics specified in paragraph 3.1~ after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

6.4 High Temperature Endurance

The device should satisfy the electrical characteristics specified in paragraph 3.1 after exposed to temperature 80±5℃for 24±2 hours and 1~2 hours recovery time under normal temperature.

6.5 Low Temperature Endurance

The device should also satisfy the electrical characteristics specified in paragraph 3.1 after exposed to the temperature -40℃±5℃for 24±2 hours and to 2 hours recovery time under normal temperature.

6.6 Temperature Cycle Test

The device should also satisfy the electrical characteristics specified in paragraph 3.1 after exposed to the low temperature -25℃ and high temperature +85℃ for 30±2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

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