

# Antenna

# YM0005AA Datasheet

## Antenna Services

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# About the Document

## Revision History

| Version | Date       | Author    | Note                                    |
|---------|------------|-----------|---|
| -       | 2020-05-27 | Kenny YIN | Creation of the document                |
| 1.0     | 2020-05-27 | Kenny YIN | Initial                                 |
| 1.1     | 2021-01-18 | Kenny YIN | Updated the antenna image in Chapter 2. |

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## 1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

## 2 Product Features

- Low loss



### 3 Product Specifications

#### 3.1. Cable Construction

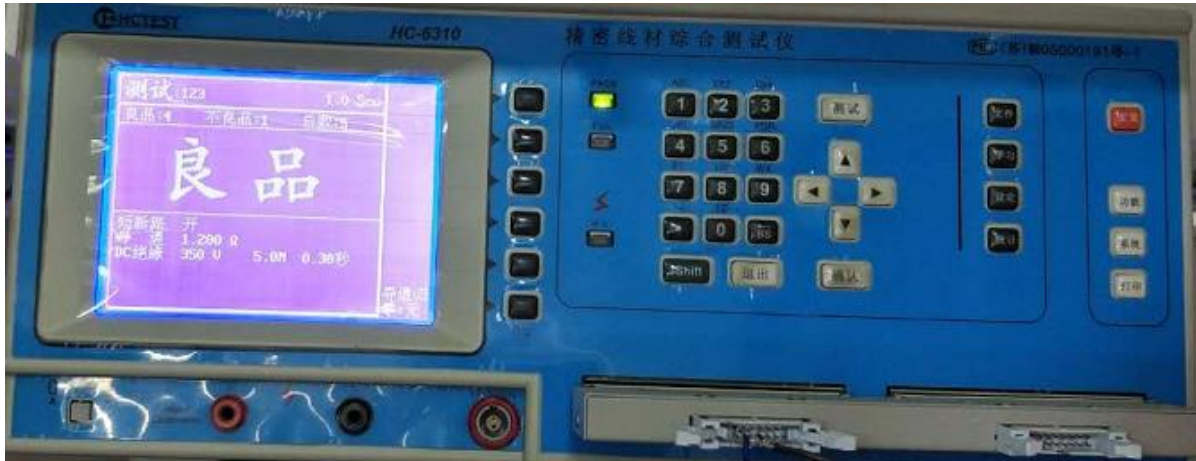
| Item      | Material                  | Diameter (mm) |
|-----------|---------------------------|---------------|
| Conductor | Silver plated copper wire | 0.24          |
| Insulator | FEP                       | 0.7           |
| Shield    | Tinned copper wire        | 0.92          |
| Jacket    | PVC                       | 1.13          |

#### 3.2. Electrical Properties and Mechanical Properties

| Item                    | Value                 | Unit |
|-------------------------|-----------------------|------|
| Impedance               | 50 ±2                 | Ω    |
| Operating Freq.         | 0 – 6000              | MHz  |
| Return Loss             | ≥ 20                  | dB   |
| Insertion loss          | 500 MHz: -0.34        | dB   |
|                         | 1000 MHz: -0.38       |      |
|                         | 1500 MHz: -0.51       |      |
|                         | 2000 MHz: -0.7        |      |
|                         | 2500 MHz: -0.78       |      |
|                         | 3000 MHz: -0.82       |      |
|                         | 3500 MHz: -0.89       |      |
|                         | 4000 MHz: -0.98       |      |
|                         | 4500 MHz: -1.1        |      |
|                         | 5000 MHz: -1.78       |      |
| 5500 MHz: -1.85         |                       |      |
| 6000 MHz: -1.87         |                       |      |
| Screening Effectiveness | 500 MHz – 1 GHz ≥ -47 | dB   |
|                         | 1–3 GHz ≥ -54         |      |
|                         | 3–6 GHz ≥ -61         |      |

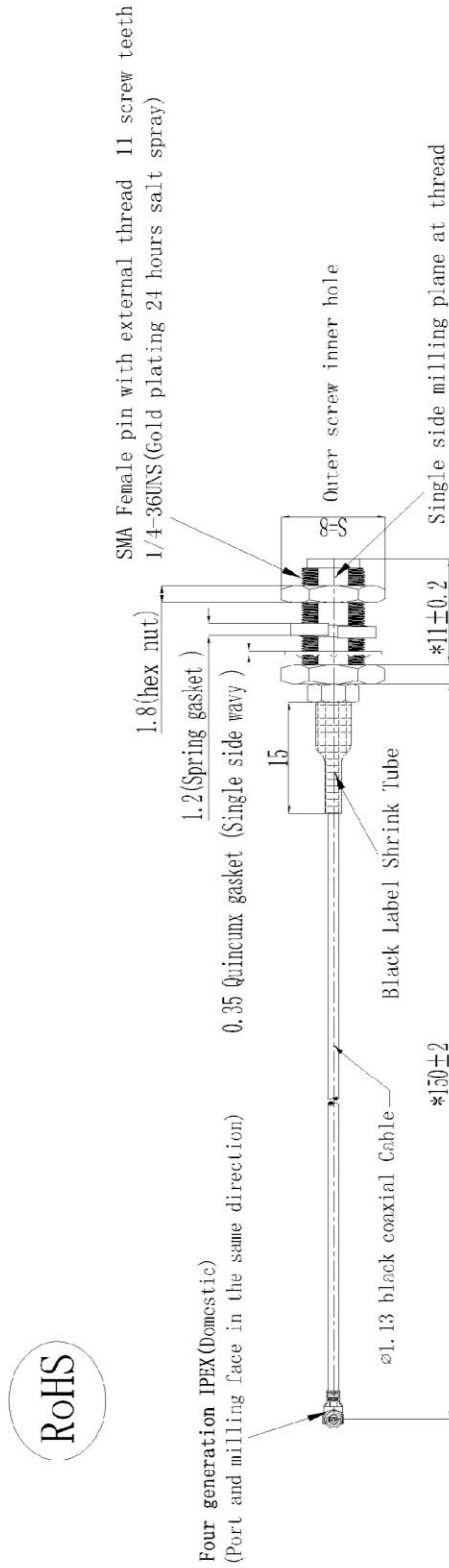
## 4 Overall Performance

- Test Environment
  - CABLE/HARNESS TESTER: WB-500 100 kHz – 6.0 GHz





## 5 Product Size



Unit : mm