



HuiZhou Speed Wireless Technology CO., LTD.  
Taiwan Speed Wireless Technology CO.,LTD.

# Antenna Specification Datasheet

Customer Name : CHICONY ELECTRONICS CO., LTD.

Date : 2024.10.21.

<b>OEM P/N</b>	0790A2322L-B02
<b>SPEED P/N</b>	F-0W-51-6008-001-00(S01)
<b>Version</b>	A

Prepared by	Signed by	Approved by Customer
RF Engineer	<b>Webb</b>	
ME Engineer	陳曉斌	
<b>Reviewed by</b>	<b>Signed by</b>	
RF Manager	<b>Webb</b>	
ME Manager	駱增周	
Project Manager	<b>Eison</b>	

天線製造商(中文): 惠州碩貝德無線科技股份有限公司

天線製造商地址(英文): Huizhou Speed Wireless Technology Co., Ltd.

天線製造商地址(中文): 广东省惠州市仲恺高新区东江高新科技产业园惠泽大道 138 号

天線製造商地址(英文): No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province

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Project Name : kenobi	Author : Webb	File Name : 0790A2322L-B02(F-0W-51-6008-001-00)
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# Revision History

Date	Revision	Description of changes
2024-10-21	A	First release

## Antenna Specification Datasheet List

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# 1. Test Criteria

## Test Criteria

Radiation gain measurement shall be made with the antennas installed in the intended notebook system. This specification evaluates performance of antenna at a system level with the antennas operating in a manner similar to customer use.

### 1.1 Test setup, Processes and Criteria

The gain measurement shall follow by following conditions:

- It is required that all the antenna gain to be measured spherically and computed by spatial average be computed of the resultant gain.
- During gain measurement, all other antennas not under test should be terminated by 50 Ohm load in end of cable.
- Space points of 3D gain measurement are increase by specific steps from Theta 0~180 degrees, and Phi, 0~360 degrees, as figure below. The increment steps are different steps are different by antenna functions, besides WiMAX defined in sections of WiMax antenna gain specifications, gain measurement to other function of antennas s should following steps table below.

<b>Theta Start</b>	15 degree	<b>Phi Start</b>	0 degree
<b>Theta Stop</b>	165 degree	<b>Phi Stop</b>	360 degree
<b>Theta Increment</b>	15 degree	<b>Phi Increment</b>	15 degree

### 1.2. Test Environment

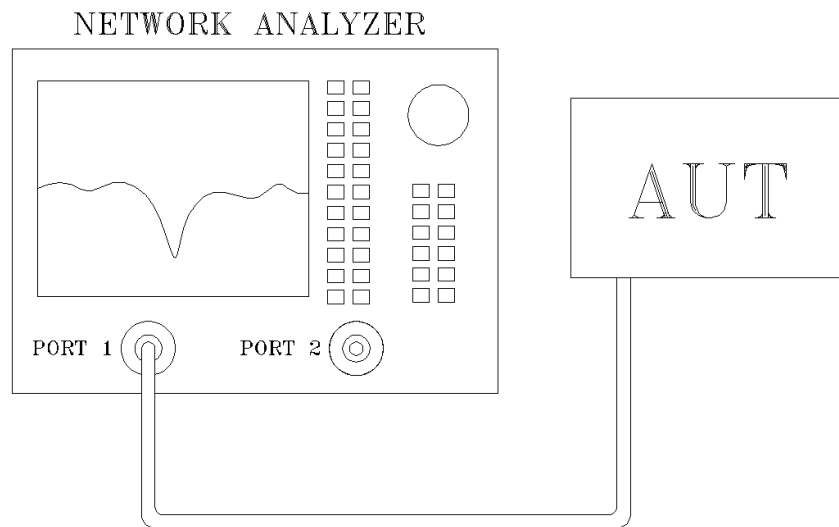
The testing of antenna gain should be made at a CTIA qualified lab with an RF anechoic chamber with at least 3-meter separation from the receive antenna to the antenna under test. The antenna gain report from unqualified lab can't be referenced a passing. Besides, all test equipment including horn antennas, adapters, cables, network analyzers, and receivers shall be calibrated per manufacturer's minimum calibration requirements.

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## 1.2.1 Antenna Test Environment

The RF anechoic chamber must be lined with absorptive material rated at a minimum frequency range from 600 MHz to 7.125 GHz.

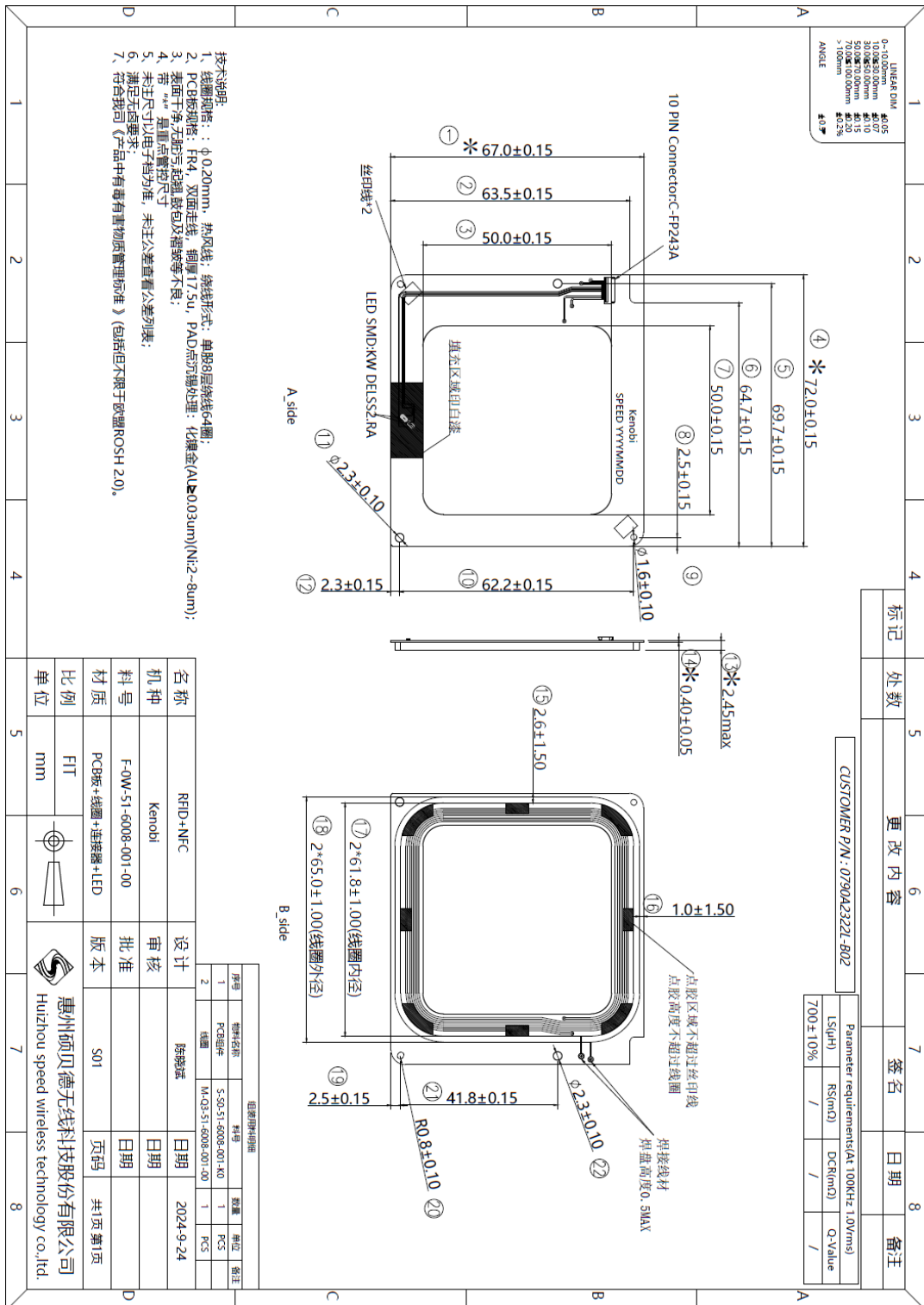
## 1.2.2 Test Conditions



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### 1.3 Antenna Drawing

RFID Antenna Type :	Loop
NFC Antenna Type :	Loop



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