

SPECIFICATION

APPLICATION FOR APPROVAL

CUSTOMER :

CS P/N :

PART NAME :

433MHz ANTENNA

DEVE NO. :

B-104R

AUDEN NO. :

220413-09

CUSTOMER APPROVED

Auden Techno Corp.

RF ENGINEER CHECKED	MECHANICAL ENGINEER CHECKED	R&D MANAGER CHECKED	PRODUCT MANAGER CHECKED
Wesley Chang	Danny Huang	Rox Lin	Kent Chang



No Perfect Status, Always Seek for Better

Auden Techno Corp.

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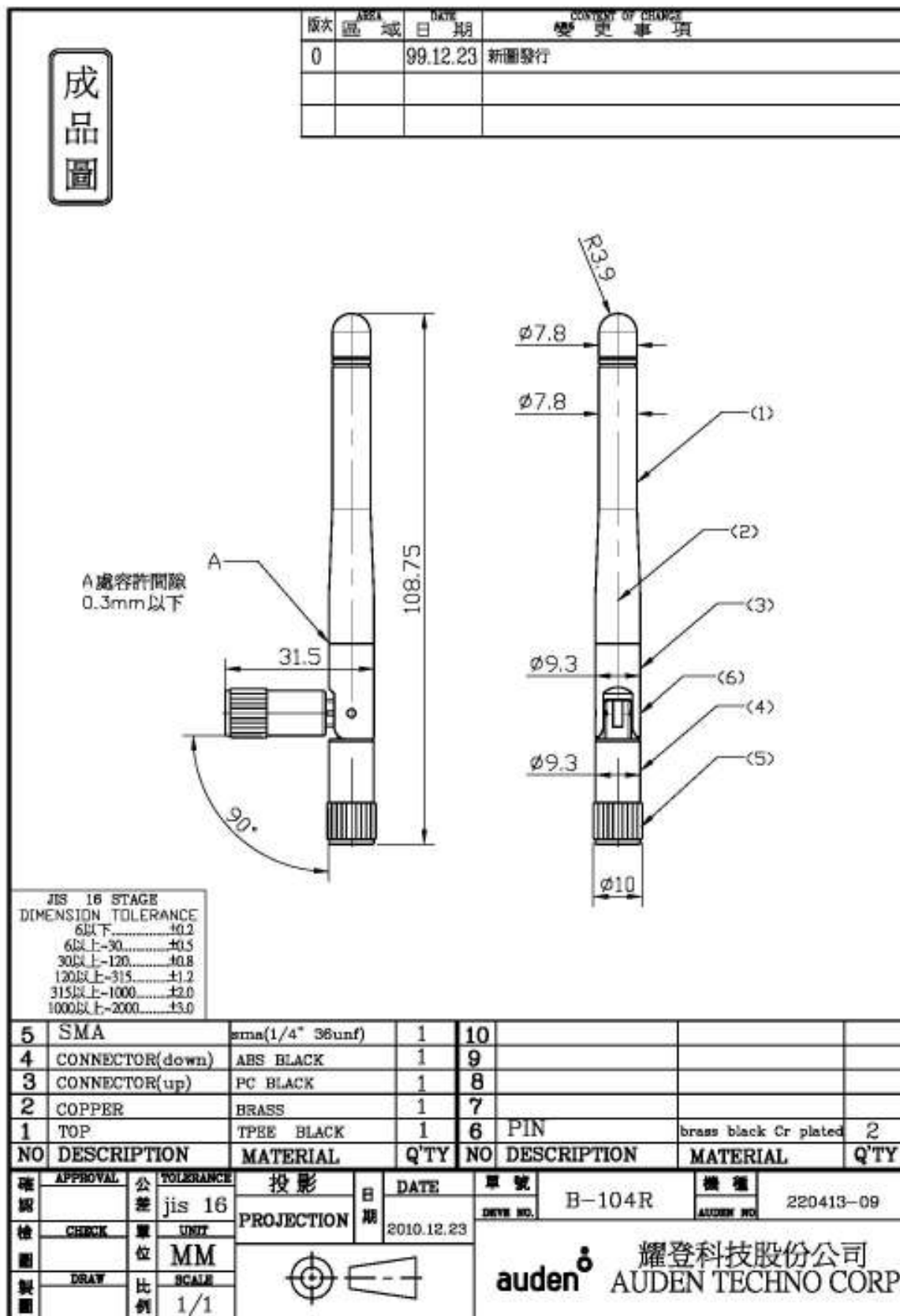
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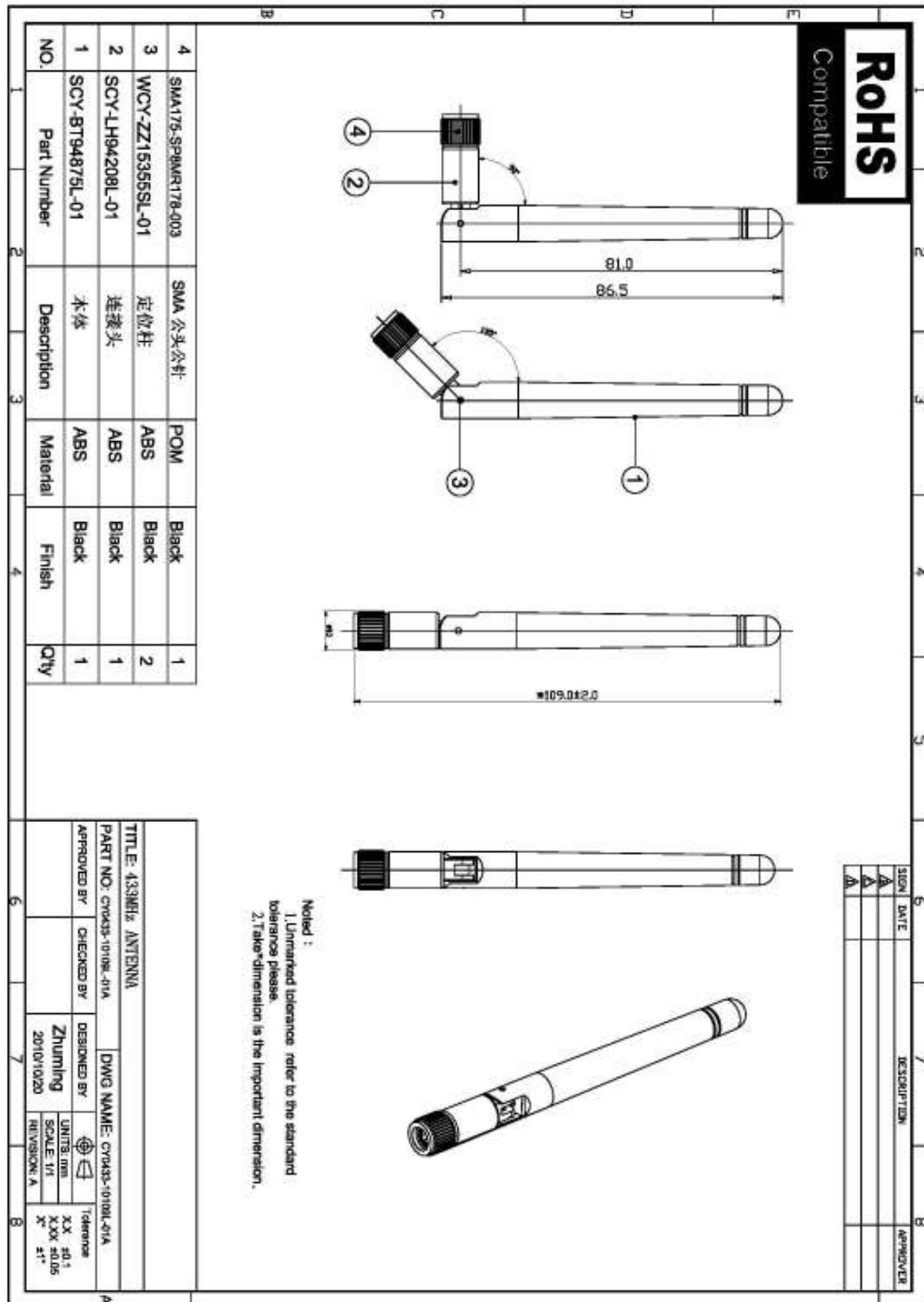
REVISION

REV.NO.	DATE	DESCRIPTION
0	Dec. 23, 2010	APPROVAL

DRAWING-1



DRAWING-2





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SPECIFICATION FOR 433MHz ANTENNA

DEVE NO.: B-104R

Rev: 0

CUS.P/N:

Auden P/N : 220413-09

Application Date: Dec. 23, 2010

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RF TEST REPORT-1

Product Number: CY0433-10109L-01A

Product Name: 433MHz Antenna

Index:

1. Reliability Testing
2. Specification
3. SParameter Test Data
4. Antenna Radiation Pattern
5. Mechanical Drawing
6. SGS Report

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1. Reliability Testing

Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40° C (30minutes) to 90° C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60° C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90° C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

RF TEST REPORT-2

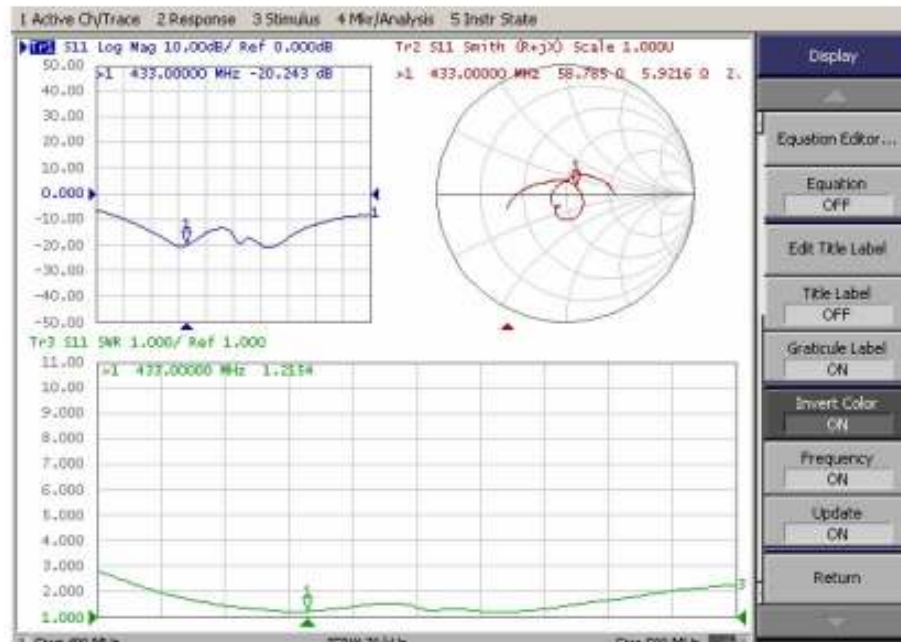
Product Number: CY0433-10109L-01A

Product Name: 433MHz Antenna

2. Specification

A. Electrical Characteristics	
S.W.R.	433 MHz: ≤ 2.0
Antenna Gain	2.0 ± 0.7 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	SMA Male Reverse
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S Parameter Test data



RF TEST REPORT-3

Product Number: CY0433-10109L-01A

Product Name: 433MHz Antenna

4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

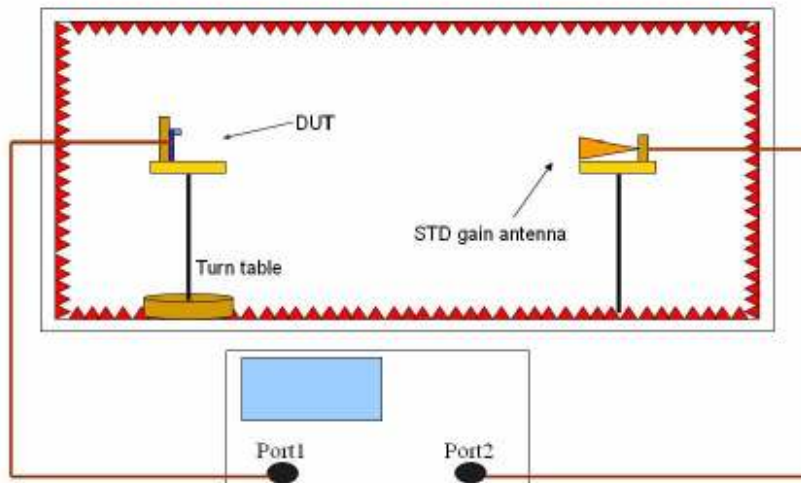
Quiet Zone: 600mm @ 1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna





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