

 **Antenna specification**

Customer name:Dayton Audio Division of Parts Express

Product name:2.4G AP Antenna

Model name:HX-A03-BX180B

Manufacturer:Hengxin Technology Inc.

Address:No. 201, Yanggongzhou Lake East Road, Shatian Town,
Dongguan City

TEL:0769-81663533 Fax:0769-89361945

[Http://www.nogps.cn](http://www.nogps.cn)

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
AUDITOR BY:		
APPROVED BY:		
DATE:	2019-07-06	

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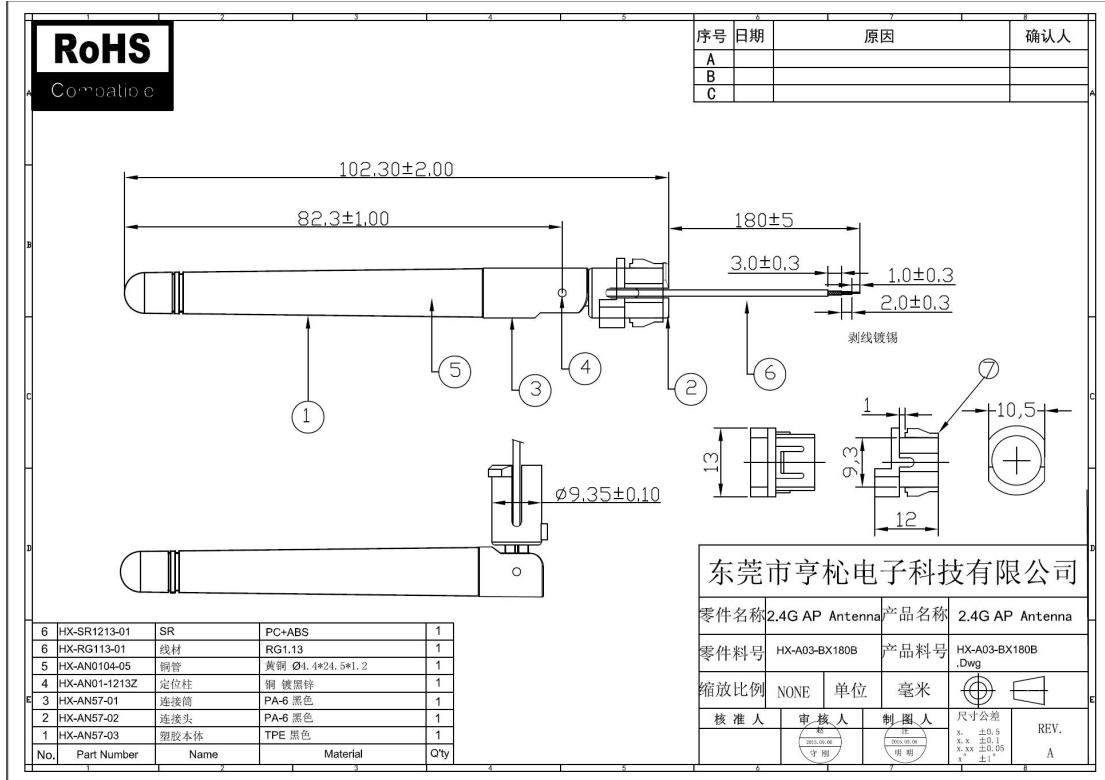
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1. Reliability Testing

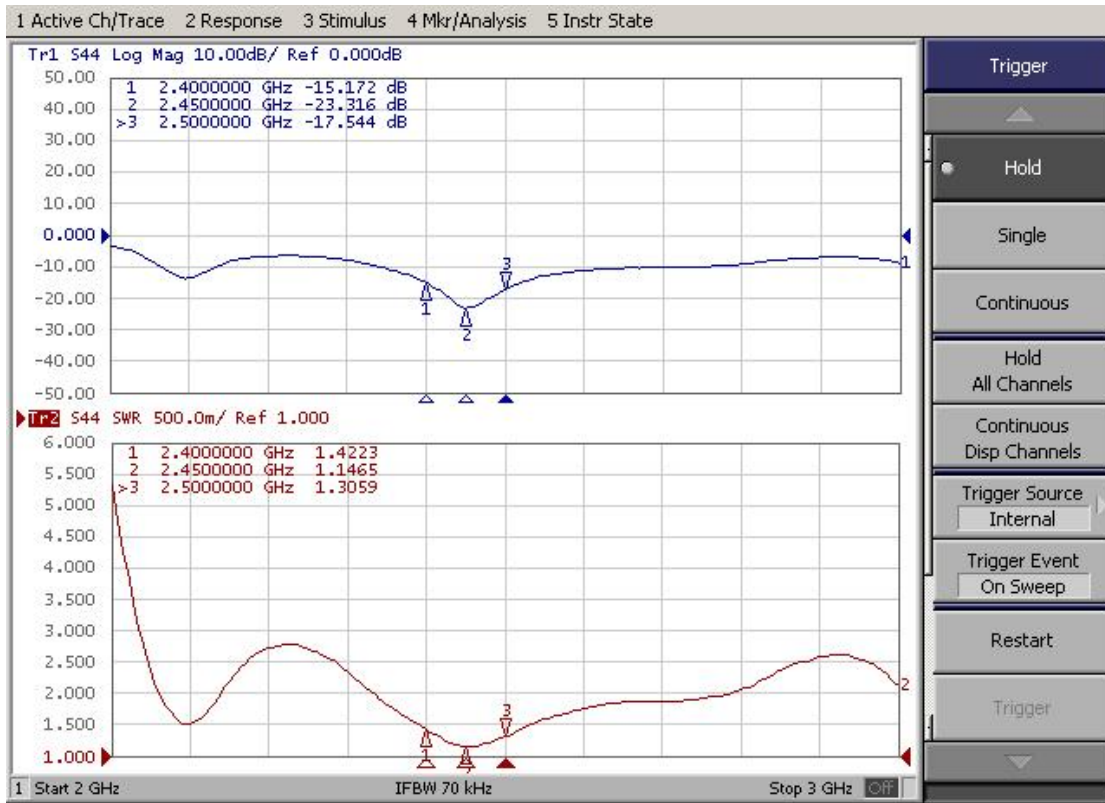
Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 80°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
4. Endurance	24 hours at 80°C	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
5. Connector Pull Strength Test	>= 1.0 Kg	Hold 2~3S: 1. no visible damage 2. bandwidth tolerance < ±5%

2. Specification

A. Electrical Characteristics	
S.W.R.(Tested in PC)	<= 3.5 @ 2400~2500 MHz
Antenna Gain	3.5dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	CU
Connector Type	ipex
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

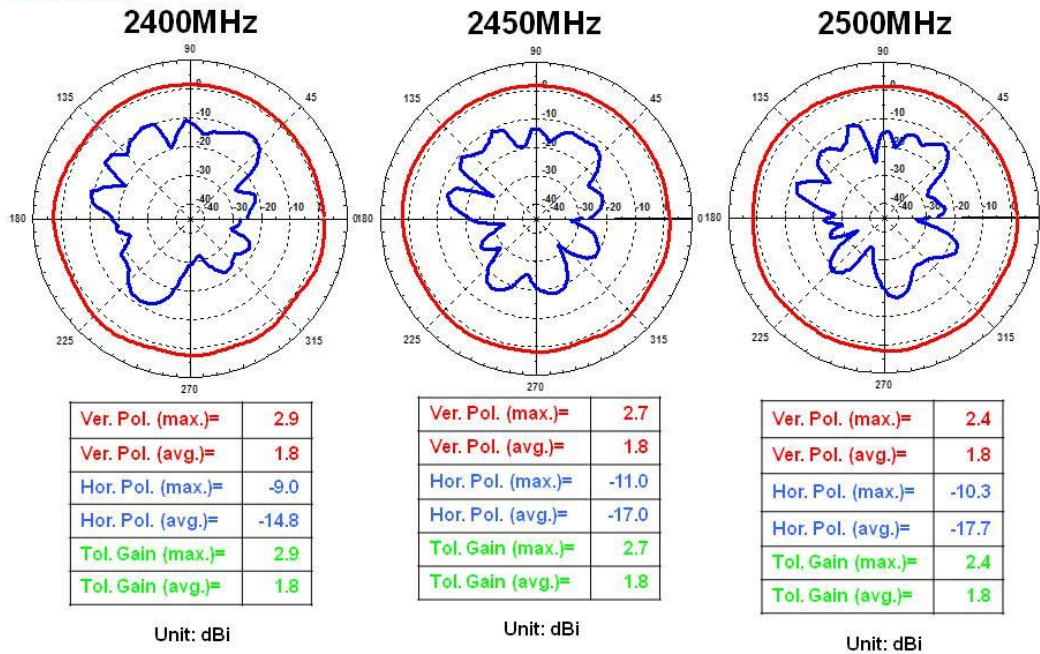


3. S.W.R. Testing Result



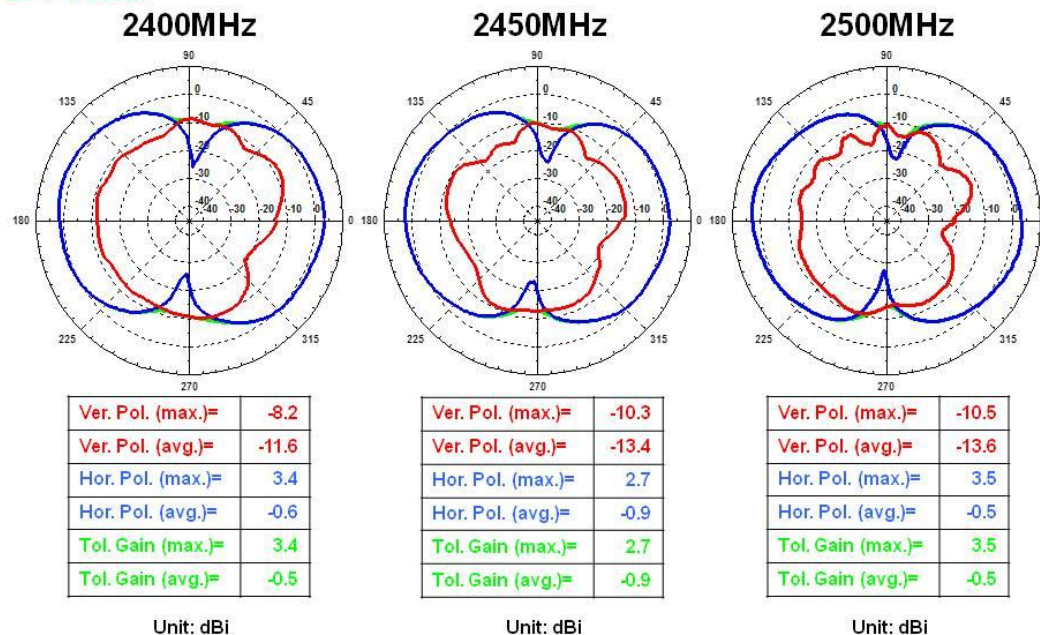
Electrical Performance-Radiation Pattern and Gain

H-Plane



Electrical Performance-Radiation Pattern and Gain

E-Plane



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

