

# Test Report

## for 0.5~2.0GHz Broadband Spiral Antenna



Model: HXATBDBS520

**Chengdu HAIXIN MICROWAVE Technology Co., Ltd**

Add: Chengdu 610091, China

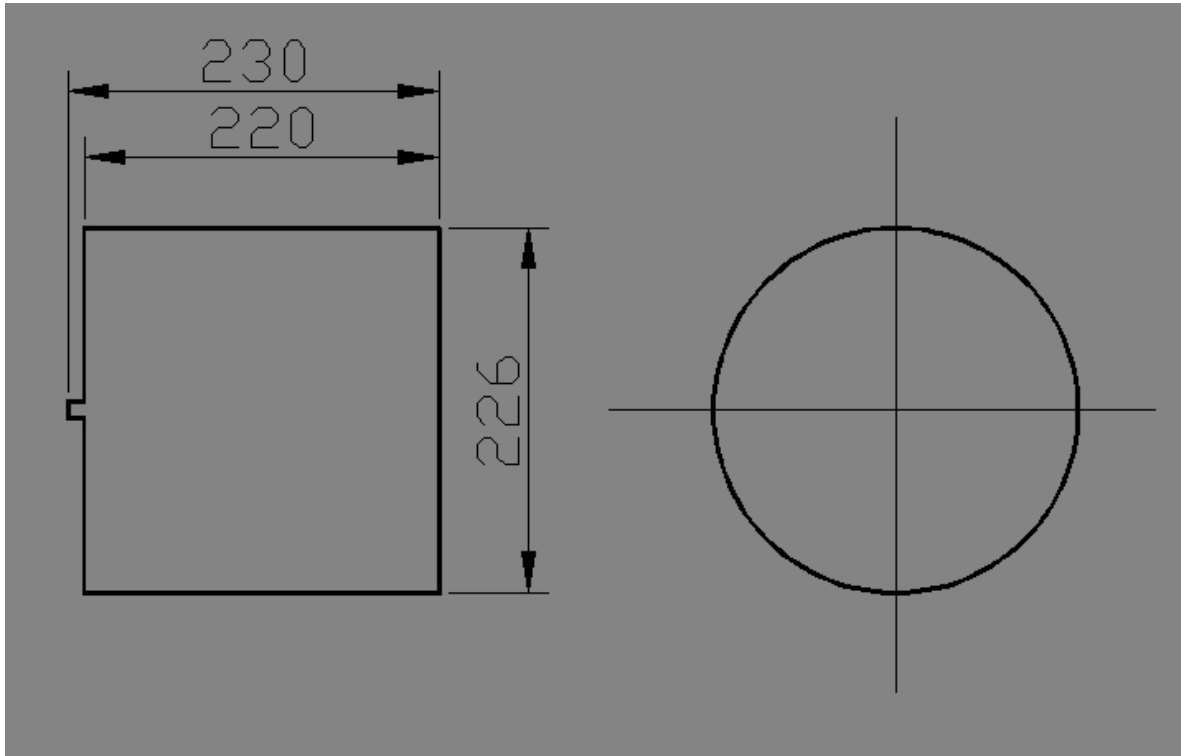
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### Outline Drawing (Size: mm)



### Technical Specification

Frequency Rang	VSWR	Gain	Connector	Axial Ration	Beam width	Size
0.5~2GHz	2:1	$\geq -5$ dBic	N-Female	$\leq 6$ dB	55° ~120	$\Phi 226$ mm x230mm

### Test Instruments

Agilent 83630B  
HP8563E  
HP8720D

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## Test Results

### 1. Gain

<b>Frequency (GHz)</b>	<b>0.5</b>	<b>0.8</b>	<b>1.2</b>	<b>1.6</b>	<b>2.0</b>
<b>Gain (dBic)</b>	<b>-3.6</b>	<b>3.5</b>	<b>5.2</b>	<b>5.5</b>	<b>6.1</b>

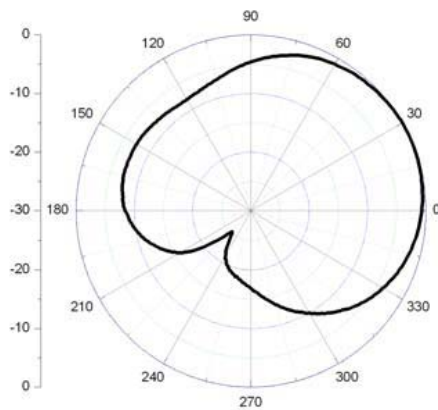
### 2. Axial Ration

<b>Frequency (GHz)</b>	<b>0.5</b>	<b>0.8</b>	<b>1.2</b>	<b>1.6</b>	<b>2.0</b>
<b>Axial Ration (dB)</b>	<b>1.2</b>	<b>3.5</b>	<b>1.4</b>	<b>2.1</b>	<b>1.5</b>

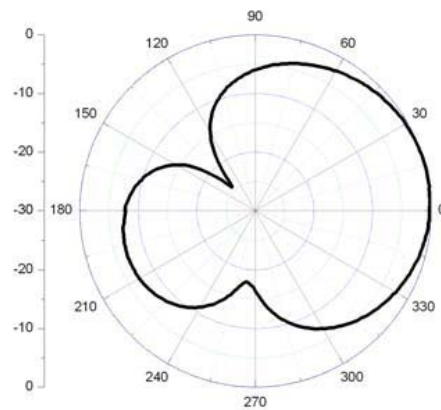
### 3. Pattern

500MHz

E Plane(103° )

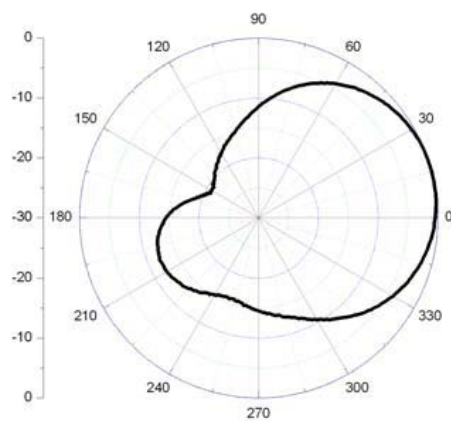


H Plane(101° )

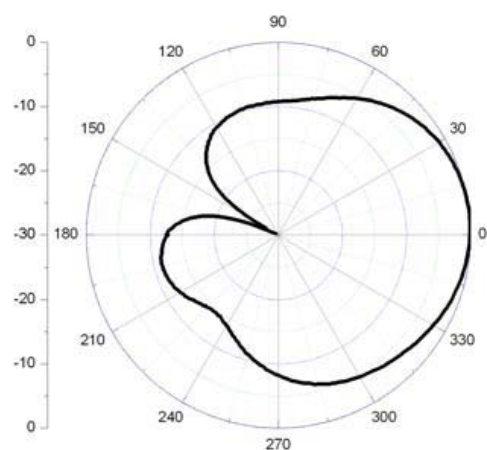


800MHz

E Plane(86° )

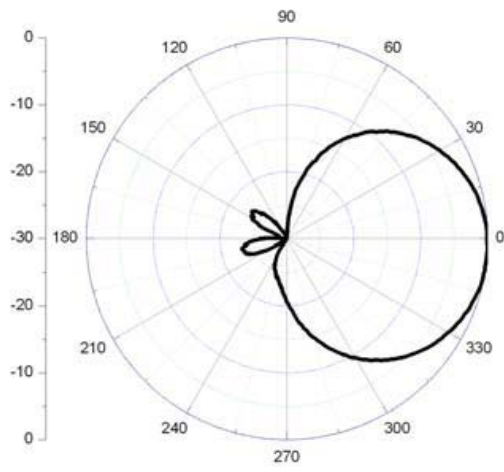


H Plane(78° )

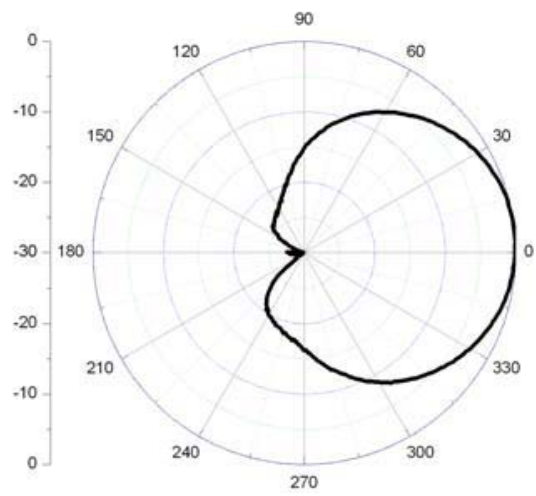


1200MHz

E Plane( $62^\circ$ )

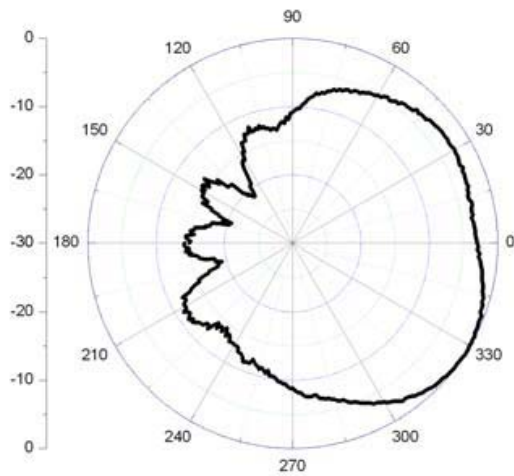


H Plane( $70^\circ$ )

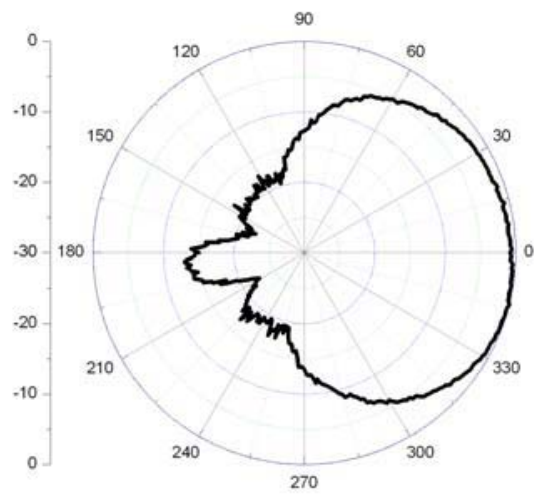


2000MHz

E Plane( $60^\circ$ )



H Plane( $93^\circ$ )



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