

# Test Report

## for 1.0~18.0GHz Broadband Spiral Antenna



Model: **HXATBDBS10180**

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

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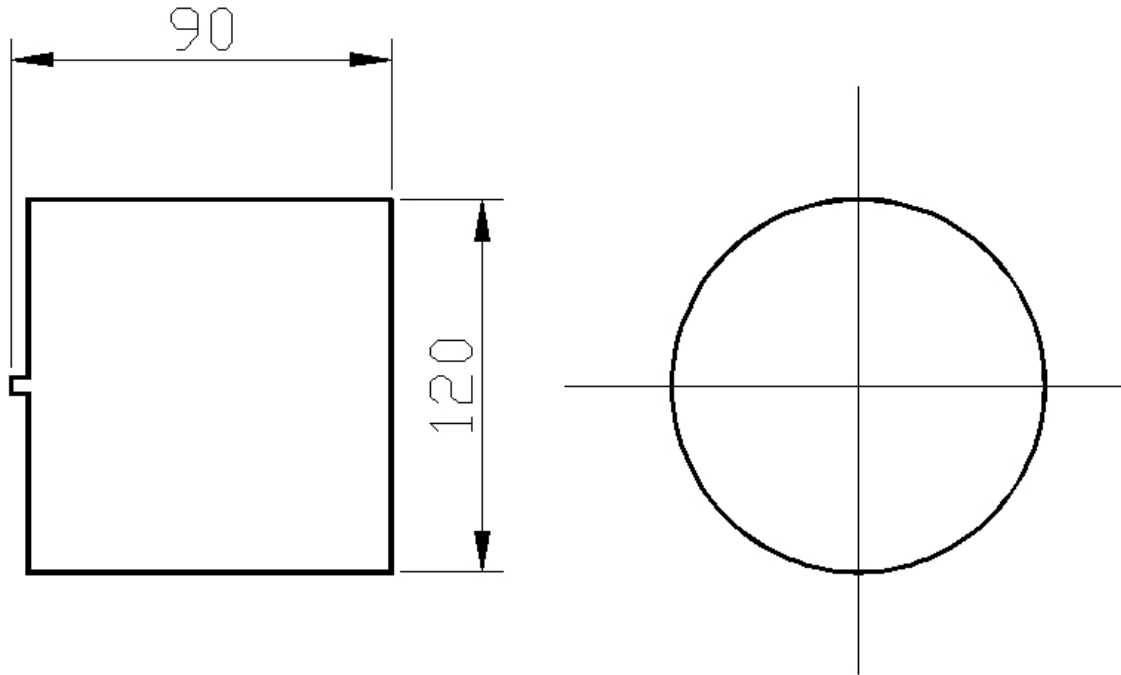
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### Outline Drawing (Size: mm)



### Technical Specification

Frequency Rang	VSWR	Gain	Connector	Axial Ration	Beam width	Size
1.0~18GHz	2:1	$\geq -7\text{dBic}$	SMA-Female	$\leq 3\text{dB}$	55~120	$\Phi 120\text{mm} \times 90\text{mm}$

### Test Instruments

Agilent 83630B  
HP8563E  
HP8720D

# Test Results



## 1. Gain

Frequency (GHz)	1.0	5.0	10.0	14.0	18.0
Gain (dBic)	-7	7	6	6	4

## 2. Axial Ration

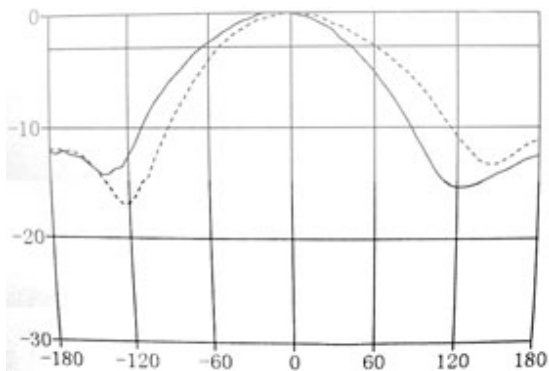
Frequency (GHz)	1.0	5.0	10.0	14.0	18.0
Axial Ration (dB)	2.6	0.9	1	2.0	2.5

## 3. Pattern

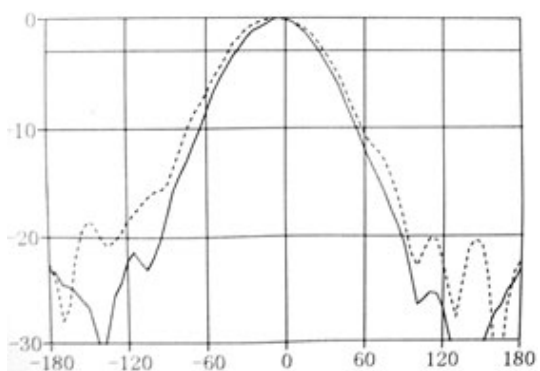
E Plane- - - -

H Plane-----

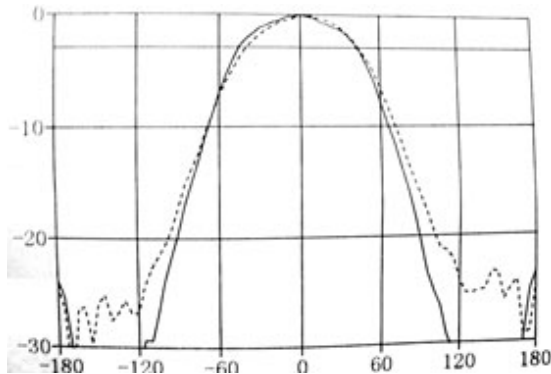
1000MHz(113° /108° )



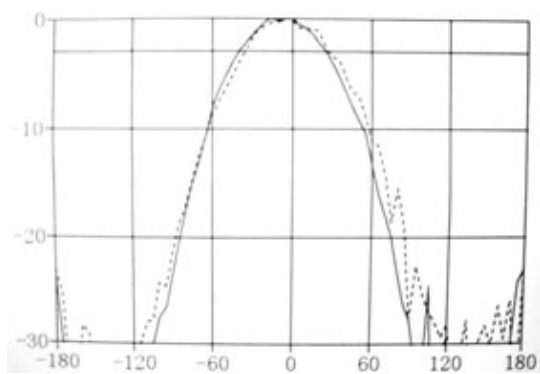
4000MHz(72° /62° )



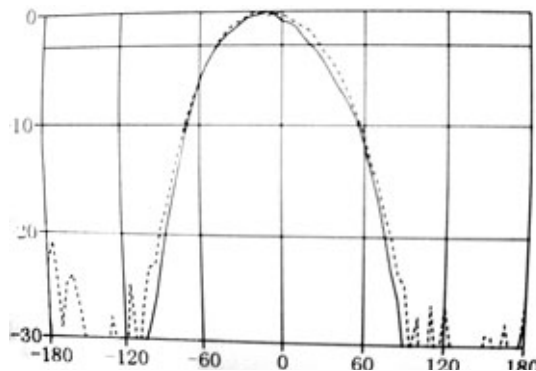
8000MHz(84° /87° )



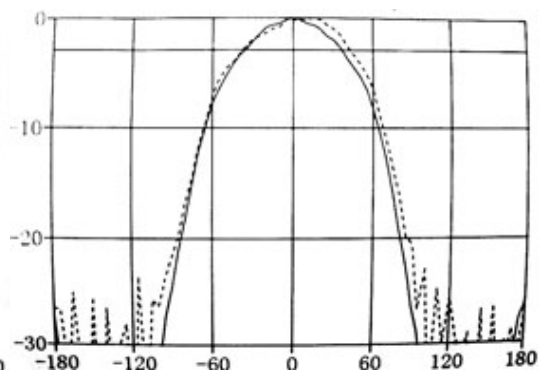
12000MHz(63° /65° )



16000MHz(75° /68° )



18000MHz(81° /73° )



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