



Hengxin Technology Inc.

Specifications

customer:

name:

2.4G spring antenna

model:

HX-B75

customer type:

sample date:

2017.06.11

Addr: No. 201, Hudong Road, Yanggongzhou, Shatian
Town, Dongguan, Guangdong, China

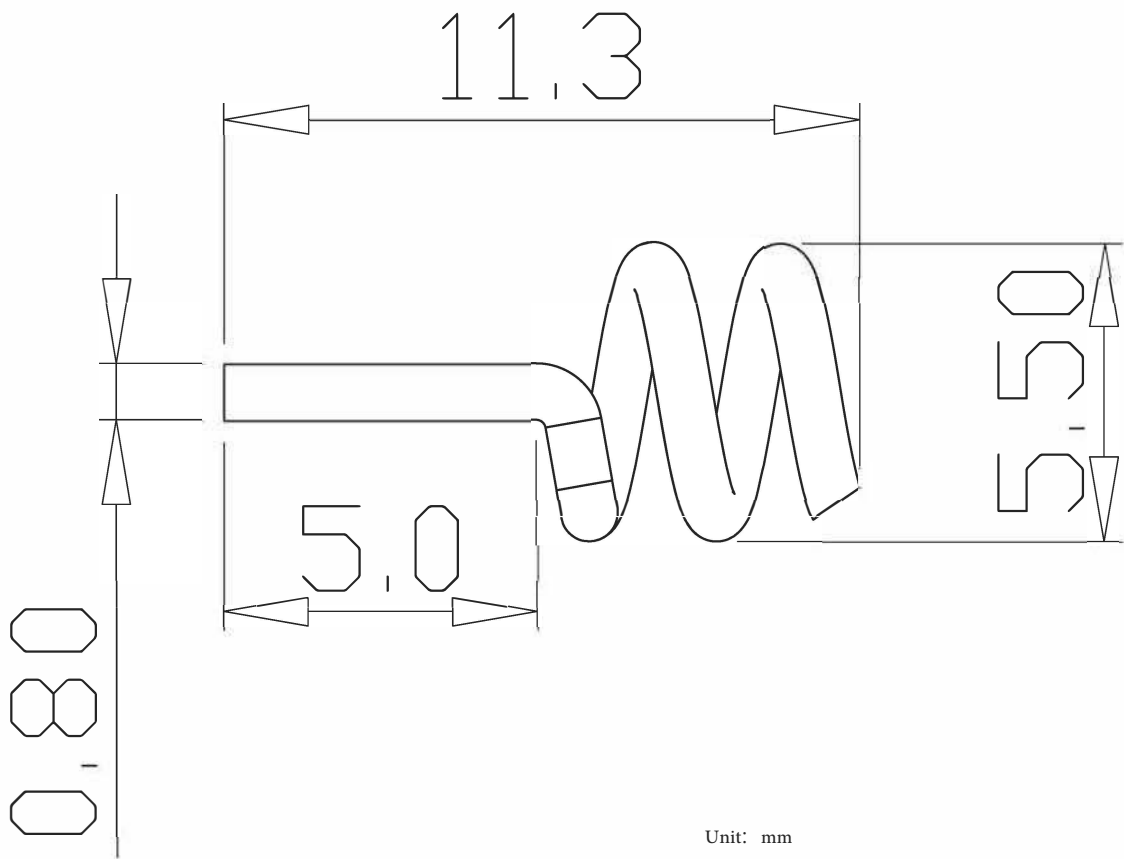
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E-mail:nogps@qq.com

Http://www.nogps.cn

http://hxnogps.1688.com

RoHS
Compatible



Spring technical requirements

material	Phosphorus copper
diameter	0.6mm

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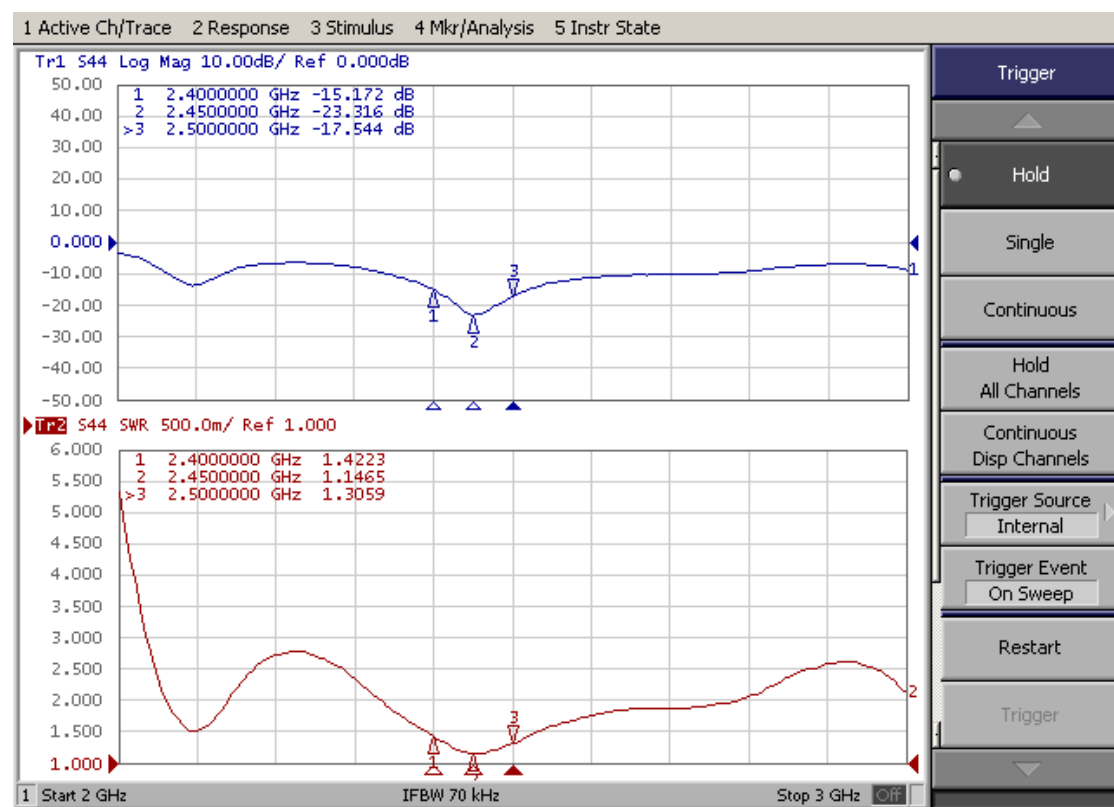
1. Reliability Testing

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 < $\pm 5\%$
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$
4. Endurance	24 hours at 80°C	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$
5. Connector Pull Strength Test	≥ 1.0 Kg	Hold 2~3S: 1. no visible damage 2. bandwidth tolerance < $\pm 5\%$

2. Specification

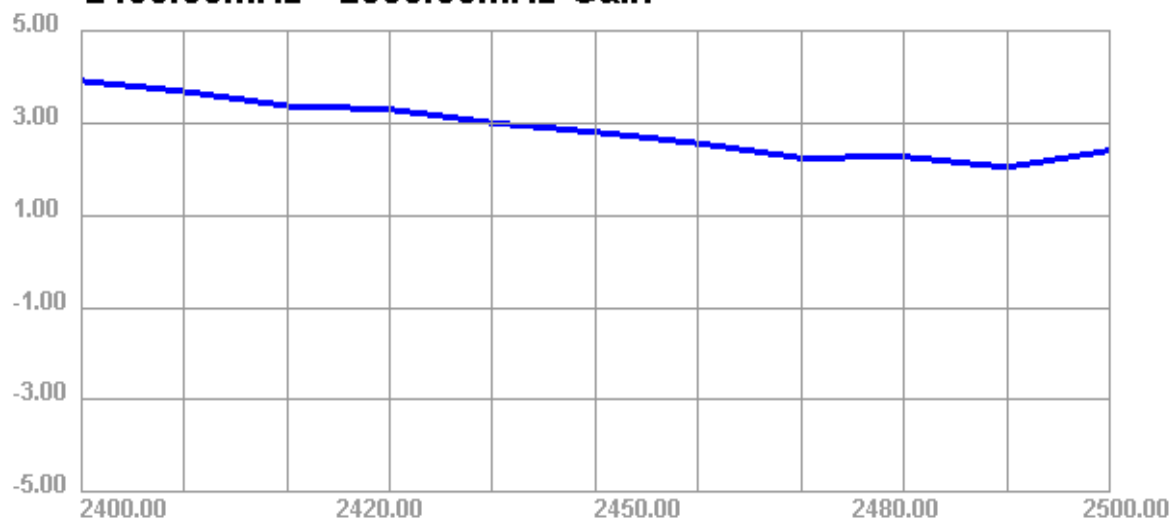
A. Electrical Characteristics	
S.W.R.(Tested in PC)	≤ 2.0 @ 2400~2500 MHz
Typical Antenna Gain	3.91dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	CU
Connector Type	NA
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	- 30 °C ~ + 85 °C

3. S.W.R. Testing Result

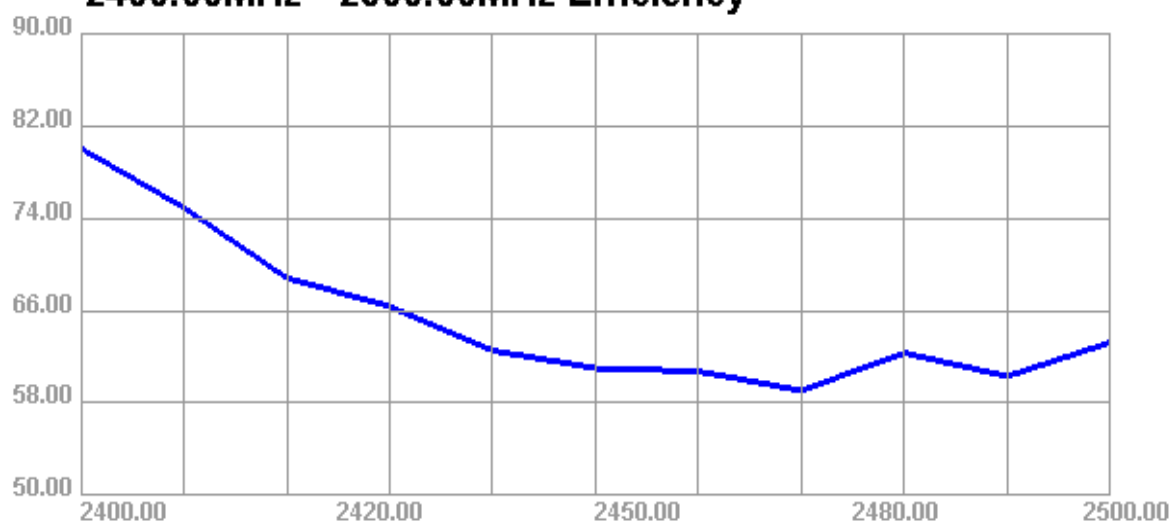


Passive Test For WiFi2.4								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)
2400	80.05	-0.97	3.91	1.76	35.329	44.721	3.91	-15.39
2410	74.92	-1.25	3.68	1.53	31.773	43.146	3.68	-13.45
2420	68.83	-1.62	3.37	1.22	28.149	40.684	3.37	-13.62
2430	66.37	-1.78	3.29	1.14	26.486	39.888	3.29	-13.73
2440	62.54	-2.04	3	0.85	24.823	37.717	3	-18.18
2450	61.03	-2.14	2.8	0.65	24.558	36.474	2.8	-21.68
2460	60.75	-2.16	2.56	0.41	25.169	35.583	2.56	-18.14
2470	59.08	-2.29	2.24	0.09	25.355	33.727	2.24	-16.42
2480	62.34	-2.05	2.27	0.12	27.644	34.7	2.27	-16.05
2490	60.32	-2.2	2.04	-0.11	27.434	32.885	2.04	-16.21
2500	63.24	-1.99	2.4	0.25	29.243	33.997	2.4	-16.04

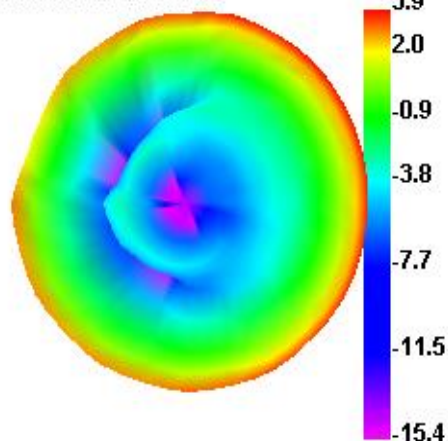
2400.00MHz - 2500.00MHz Gain



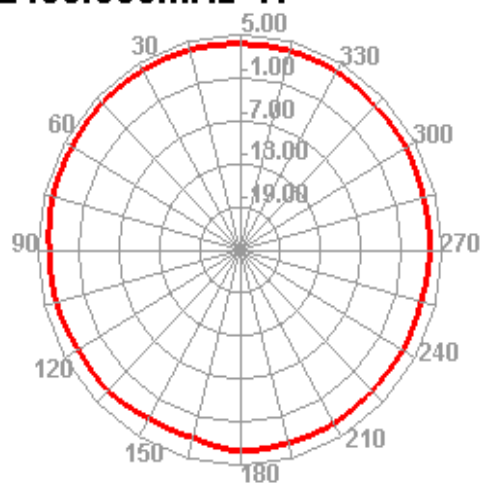
2400.00MHz - 2500.00MHz Efficiency



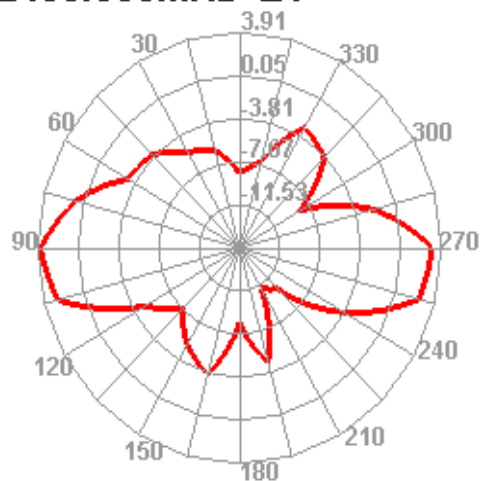
2400.000MHz



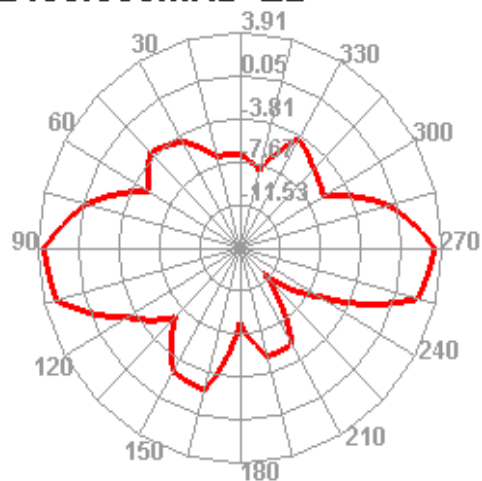
2400.000MHz H



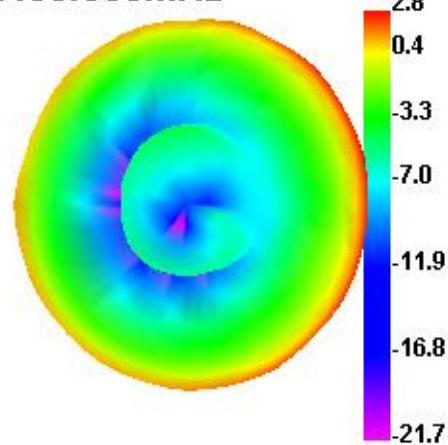
2400.000MHz E1



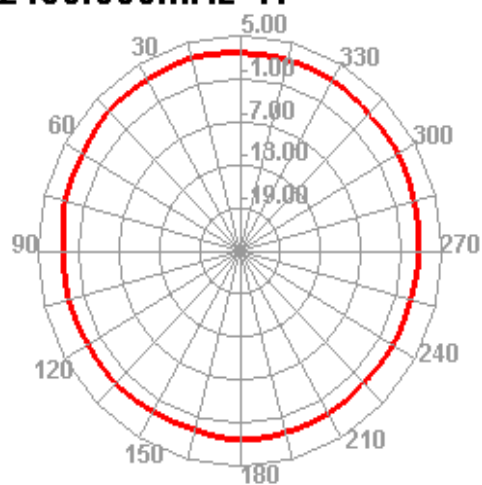
2400.000MHz E2



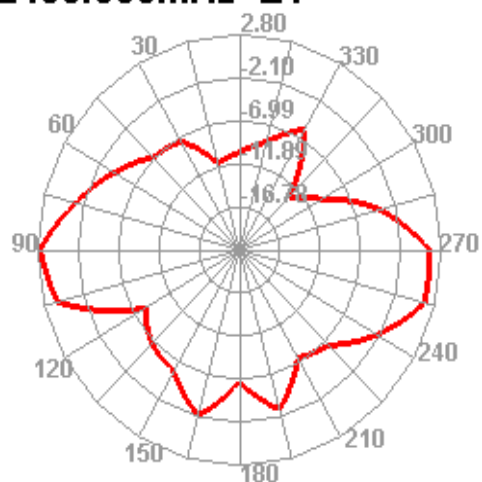
2450.000MHz



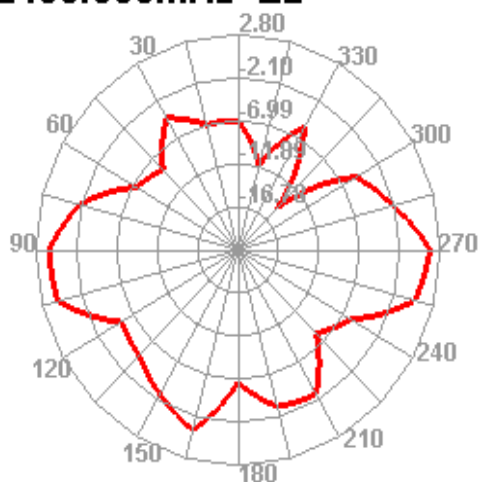
2450.000MHz H



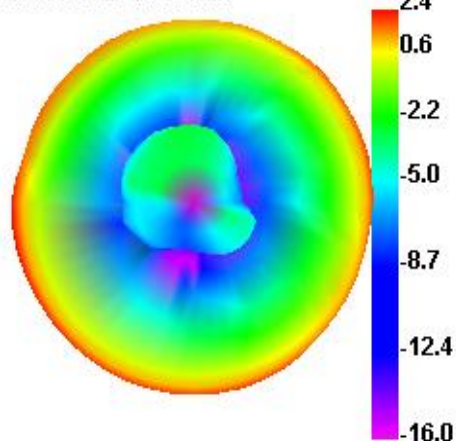
2450.000MHz E1



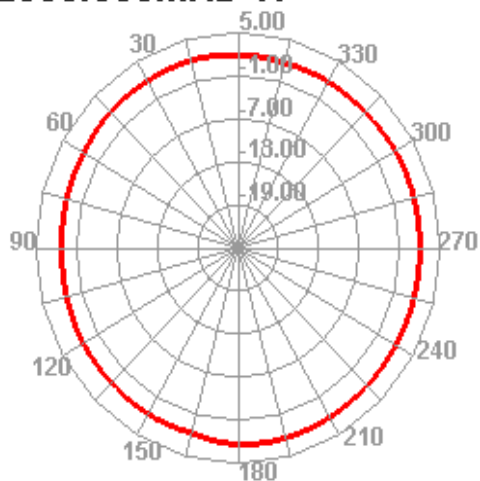
2450.000MHz E2



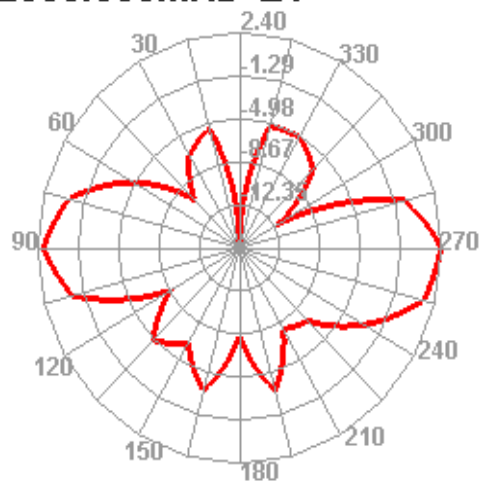
2500.000MHz



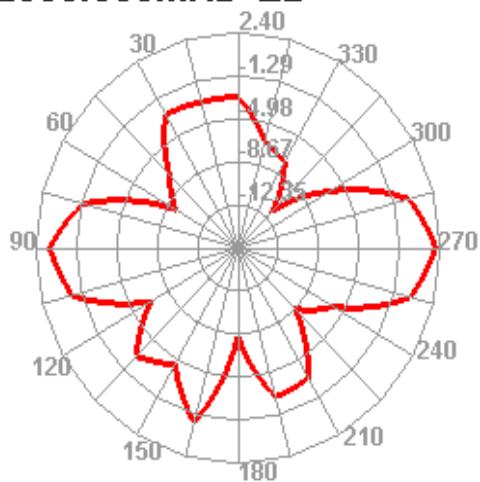
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



Attenut Hor	Attenut Ver
50	49.8
49.04	48.95
49.52	49.32
49.72	49.54
49.05	48.93
49.23	49.02
49.42	49.35
49.16	49.2
49.63	49.52
49.82	49.81
49.29	49.31

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

