

Zhongshen Xinhua Precision Technology (Shenzhen) Co., Ltd

SPECIFICATION FOR APPROVAL

Customer:

X.WFTX.AK1XXX-000

Part Number:

2.4G/5.8G built-in FPC antenna

Specification:

Sample No:

Date of issue:

2021-06-10

Part Rev.

A.0

Add:5F, Building 1, No. 116, Xiangshan Avenue, Luotian Community, Songgang
Town, Bao'an District, Shenzhen

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1. Scope of application:

Mainly used for receiving and transmitting signals in various communication equipment;

2. Structural characteristics:

Antenna unit: FPC antenna; Cable, connector

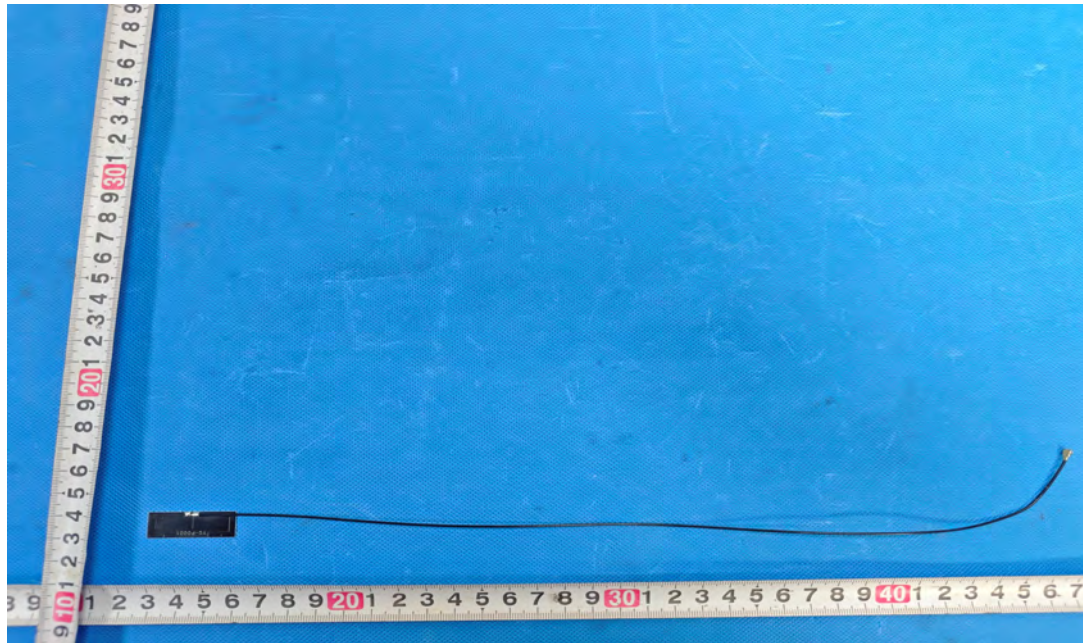
Interface form : IPEX

3. Electrical specifications:

performance index :

Electric and steam performance index of product	
Operating frequency range	2400-2480MHz 5100-5800MHz
Standing wave ratio	2400-2480MHz: <3.5 5100-5800MHz: <3.5
Antenna gain	2400-2480MHz: 2dBi±0.5dBi 5100-5800MHz: 3dBi±0.5dBi
Radiation efficiency	2400-2480MHz: >35% 5100-5800MHz: >35%
impedance	50ohm
Product Material Description	
hardware	FPC
Product environment description	
working temperature	-30℃~+85℃
Storage temperature	30℃~+85℃

4. External dimensions of antenna:

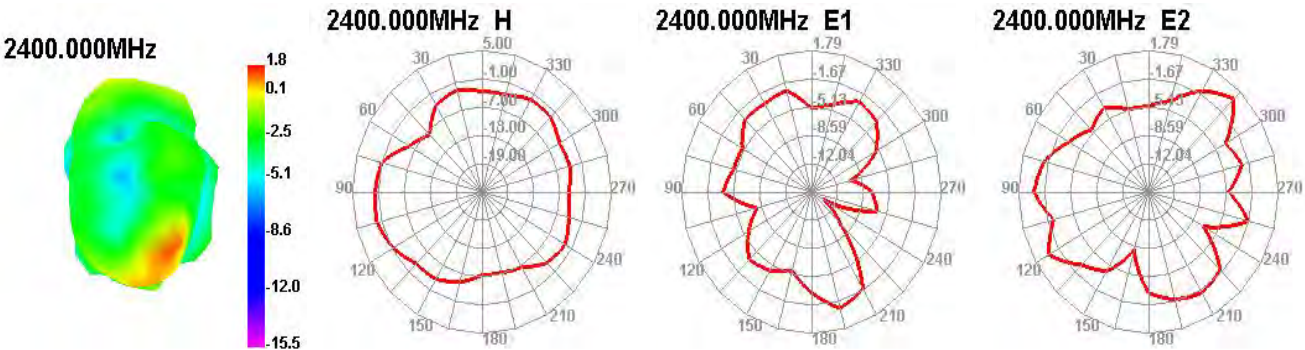


WIFI 2.4G		
Fre.(MHz)	Efficiency(%)	Gain(dBi)
2400	47.83%	2.38
2420	48.75%	1.43
2440	52.27%	1.99
2460	48.77%	1.89
2480	46.37%	1.87

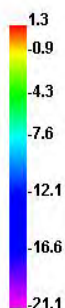
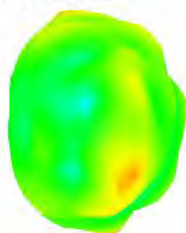
WIFI 5.8G		
Fre.(MHz)	Efficiency(%)	Gain(dBi)
5100	64.73%	3.28
5150	66.26%	2.85
5200	65.25%	3.02
5250	66.39%	3.19
5300	65.16%	2.92
5350	65.24%	3.05
5400	66.38%	2.84
5450	64.92%	3.18
5500	65.13%	2.98
5550	66.11%	3.25
5600	65.26%	3.11
5650	65.12%	3.26
5700	66.39%	3.07

5750	64.73%	3.02
5800	65.86%	3.29

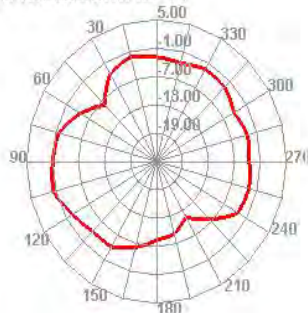
Radiation pattern.



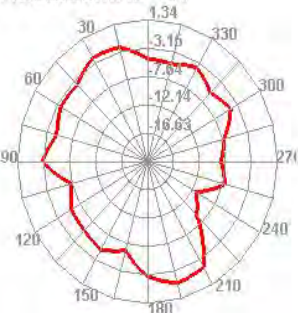
2450.000MHz



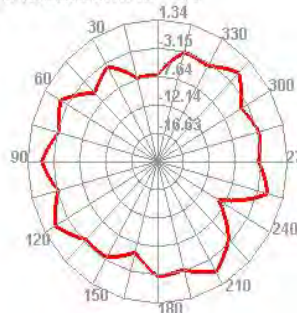
2450.000MHz H



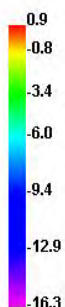
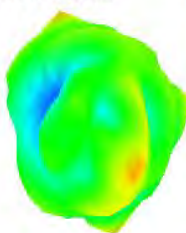
2450.000MHz E1



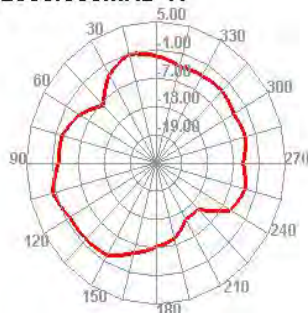
2450.000MHz E2



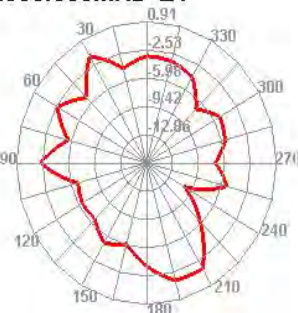
2500.000MHz



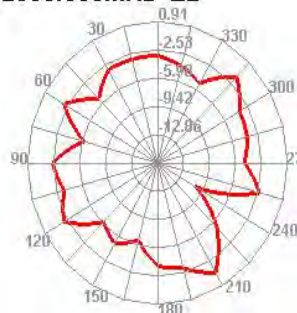
2500.000MHz H



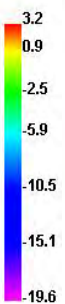
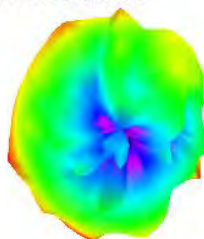
2500.000MHz E1



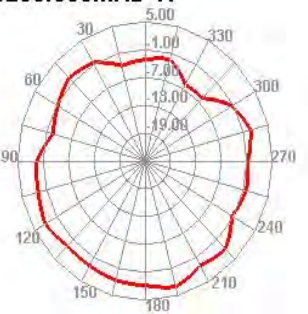
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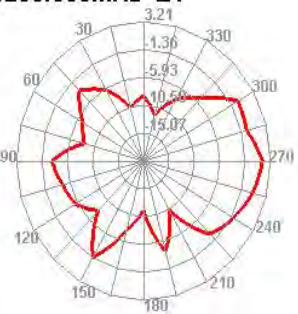
5200.000MHz



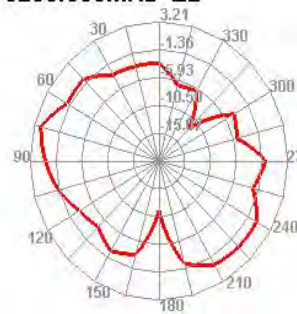
5200.000MHz H



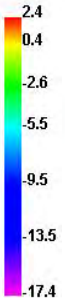
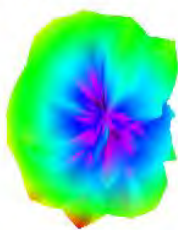
5200.000MHz E1



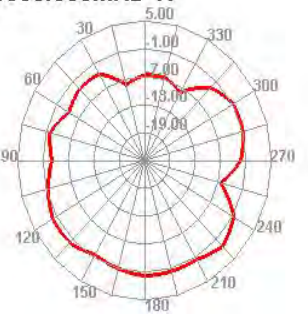
5200.000MHz E2



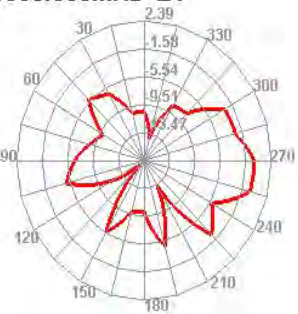
5550.000MHz



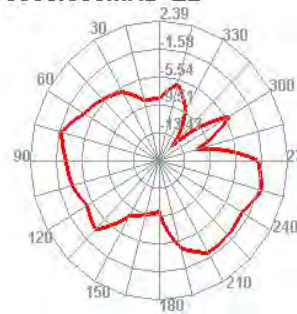
5550.000MHz H



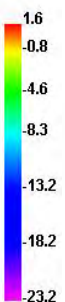
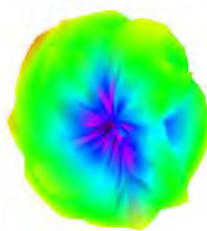
5550.000MHz E1



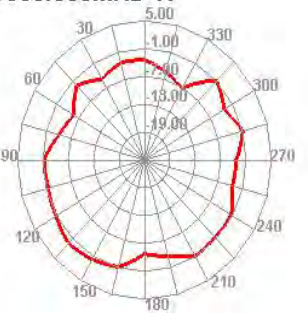
5550.000MHz E2



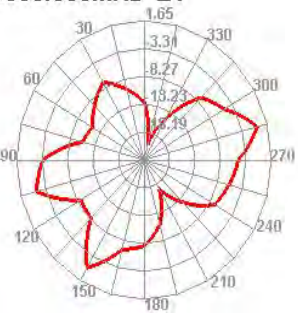
6000.000MHz



6000.000MHz H



6000.000MHz E1



6000.000MHz E2

