



Tech & Signal

Shenzhen Kexin Wireless Technology Co., Ltd

深圳市科信无线技术有限公司

Recognition

Customer name: _____ / _____

Customer part number: _____ / _____

Kexin material number: _____ / _____

Specification description: Dual-frequency soft built-in 3511 FPC:35 * 11mm L: 5CM IPEX 1.13 cableProduction date: November 27, 2023

Factory confirmation:

Department	Review	Approved
Radio frequency unit	Liu Jingxiong	Li Bin
Structural part	Li Zhixiao	Li Bin
Quality department	Wang Fei	Li Bin

Customer confirms:

Check	Review	Approved



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△ Record of document formulation, modification, and revocation

File name	Date	Control version	Linked content	Develop	Approved
Sample acknowledge ment	2023. 11. 27	V1	First production	Li Zhixiao	Li Bin



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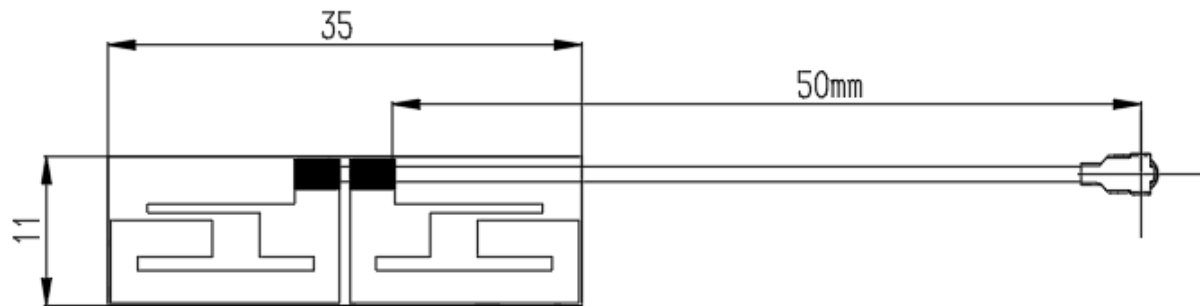
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4、Product performance parameters

Electrical Specifications	
Frequency Range (MHz)	2400-2500;5150-5850
Input Impedence (Ω)	50
V.S.W.R	≤ 2 (No matching device, for reference only)
Gain (dbi)	2.4G:-1.61 5G:2.56
Polarization Type	Vertical
Radiation Direction	Omni-Directional
Continuity Test	Pathway
Mechanical Specifications	
Antenna size(mm)	FPC35*11mm*0.25mm :
Connect Type	IPEX 1st generation
Radome Material	/
Radome Color	Black
Operating Temp	- ~ + °C2070

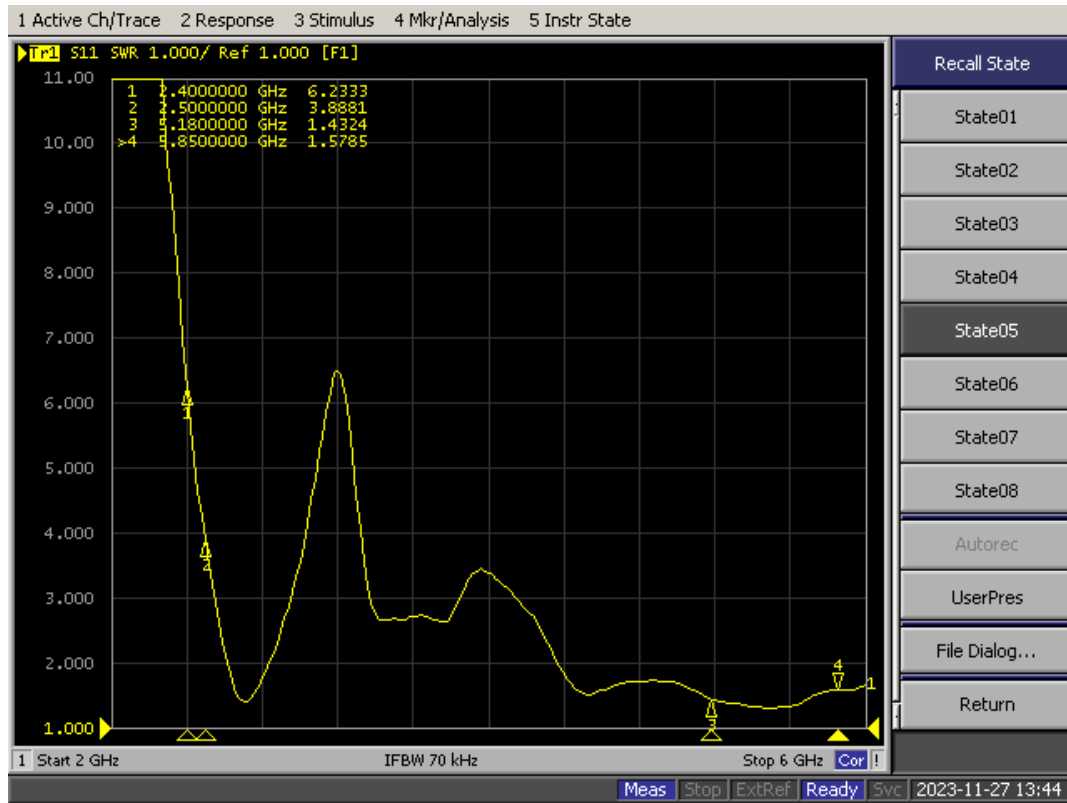
5、Product size drawing



工作频段 (Frequency Range)

2400-2500; 5150-5850MHz

6、Performance test report: VSWR

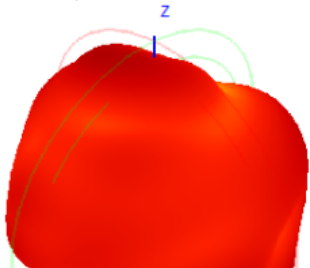


Efficiency & Gain

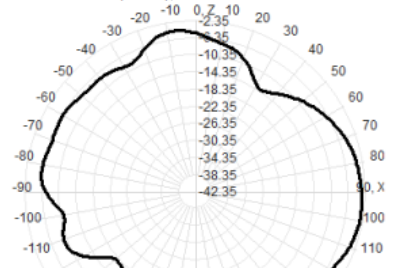
Freq (MHz)	Effi (%)	Gain (dBi)
2400	24.37	-2.33
2450	29.78	-2.24
2500	39.56	-1.61
5150	74.16	2.33
5350	69.54	2.37
5550	76.18	2.42
5850	72.04	2.56

3D & 2D directional diagrams

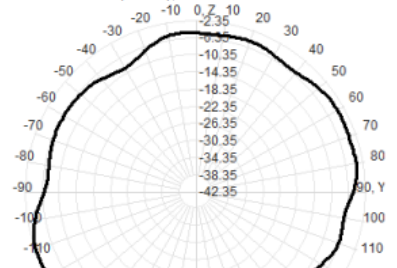
2400.0MHz H+V, Eff: 24.4%



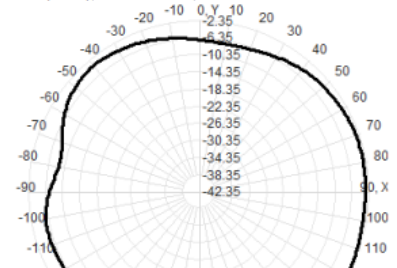
2400.0MHz Total(E1-XZ), Max=-3.29dBi



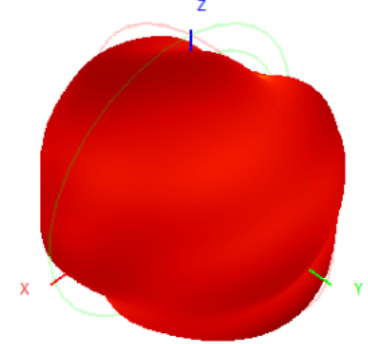
2400.0MHz Total(E2-YZ), Max=-2.45dBi



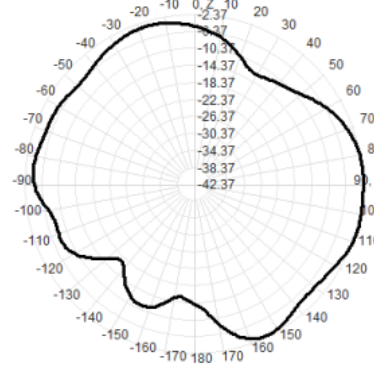
Total(H+V), Max=-2.35dBi, CirD=6.69



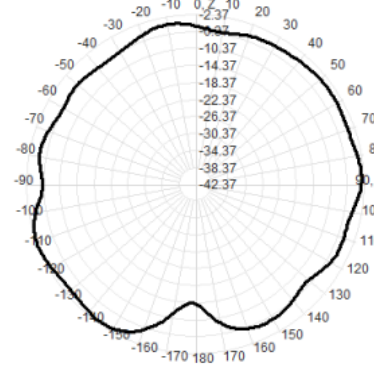
2450.0MHz H+V, Eff: 29.8%



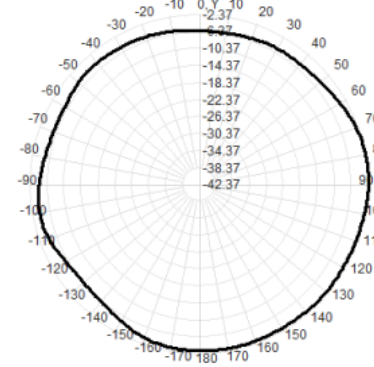
2450.0MHz Total(E1-XZ), Max= -2.37dBi



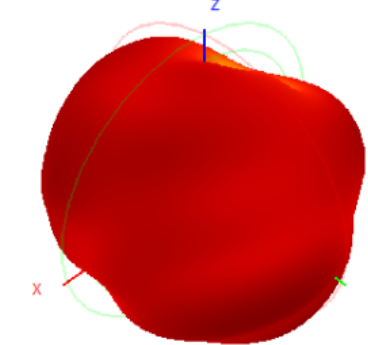
2450.0MHz Total(E2-YZ), Max= -2.43dBi



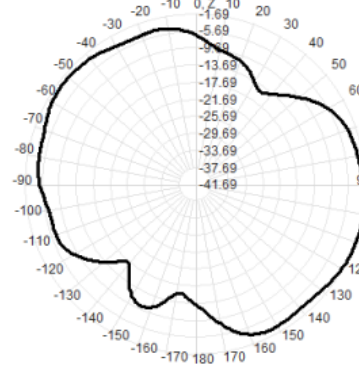
Total(H-XY), Max= -2.45dBi, CirD=4.25



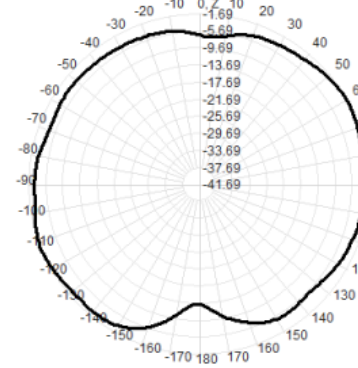
2500.0MHz H+V, Eff: 39.6%



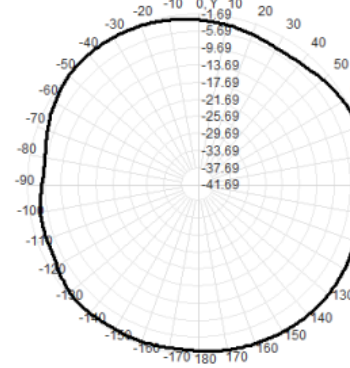
2500.0MHz Total(E1-XZ), Max= -1.73dBi



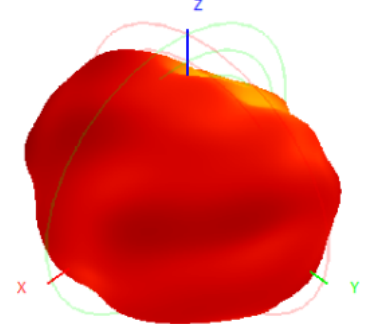
2500.0MHz Total(E2-YZ), Max= -1.73dBi



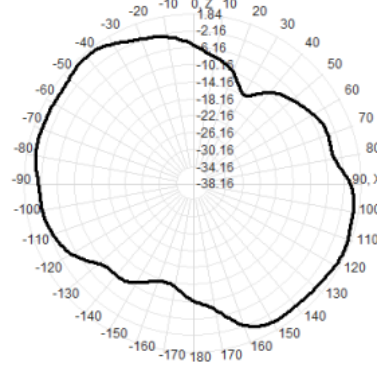
Total(H-XY), Max= -1.69dBi, CirD=3.77



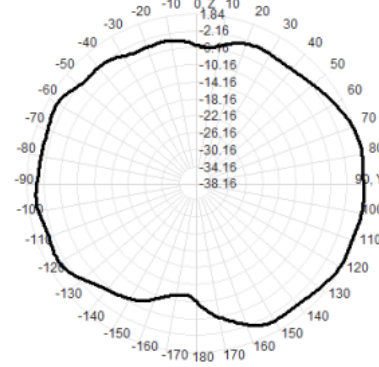
5150.0MHz H+V, Eff: 74.2%



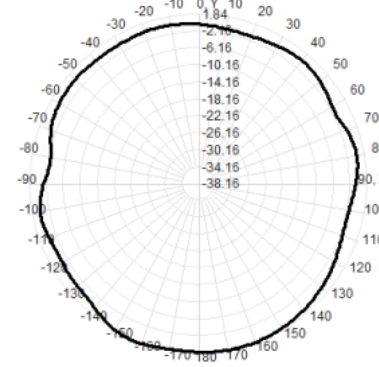
5150.0MHz Total(E1-XZ), Max= 0.89dBi



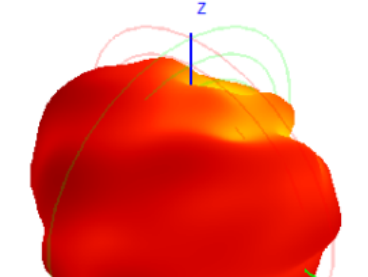
5150.0MHz Total(E2-YZ), Max= 1.77dBi



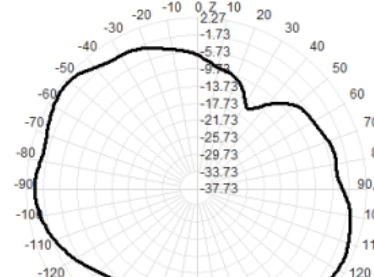
Total(H-XY), Max= 1.84dBi, CirD=4.58



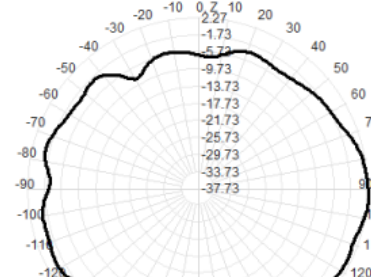
5350.0MHz H+V, Eff: 69.5%



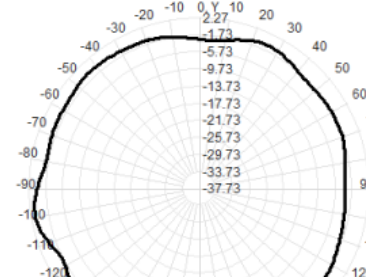
5350.0MHz Total(E1-XZ), Max= 1.41dBi



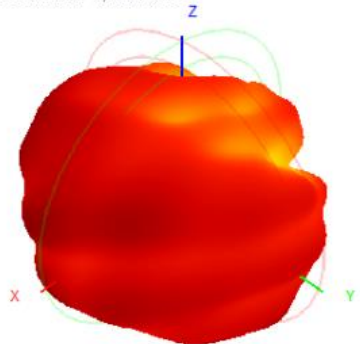
5350.0MHz Total(E2-YZ), Max= 2.27dBi



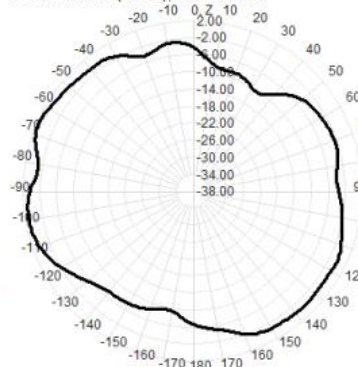
Total(H-XY), Max= 2.10dBi, CirD=5.72



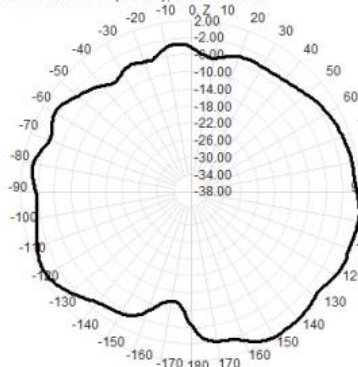
5550.0MHz H+V, Eff: 76.2%



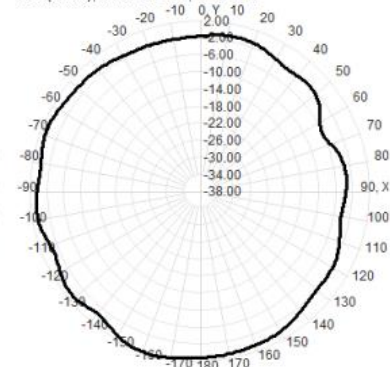
5550.0MHz Total(E1-XZ), Max= 1.51dBi



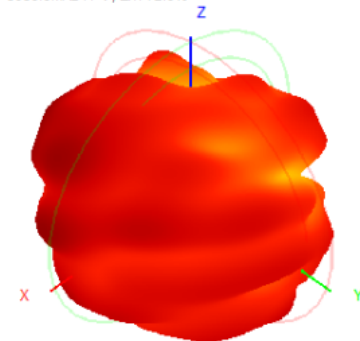
5550.0MHz Total(E2-YZ), Max= 2.00dBi



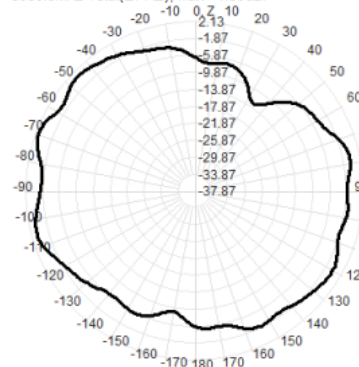
Total(H-XY), Max= 1.94dBi, CirD=8.27



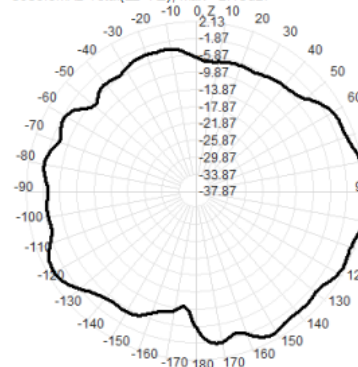
5850.0MHz H+V, Eff: 72.0%



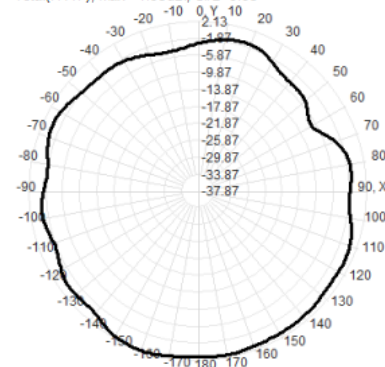
5850.0MHz Total(E1-XZ), Max= 1.38dBi



5850.0MHz Total(E2-YZ), Max= 2.13dBi



Total(H-XY), Max= 1.95dBi, CirD=9.05



7、Real product photos

