

深圳市华信微通信技术有限公司

Shenzhen Huaxin Micro Communication Technology Co., Ltd.
Room 203, Building C, No. 5, Skyworth Innovation Valley, Baoan District, Shenzhen

样 品 承 认 书

SPECIFICATION FOR APPROVAL

WIFI Antenna (2025)

1. Features

- *Stable and reliable in performances
- *Compact size
- *RoHS compliance

2. Applications

- * IEEE802.11 (a/b/g/n)
- * Hand-held devices when WIFI (802.11a/b/g/n) functions are needed

3. Description

Holy bond’s Onboard antenna series are specially designed for WIFI (802.11 a/b/g/n) applications. Based on Holy bond’s proprietary design and processes, this Onboard antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. Electrical Specifications

Characteristics	Specifications	Unit
Outline Dimensions	16.8.x2.95x 0.10	mm
Center Frequency	2.4-2.5/5.15-5.85	GHz
Bandwidth(under-10dB return loss)	130min	MHz
VSWR	3max	

VSWR

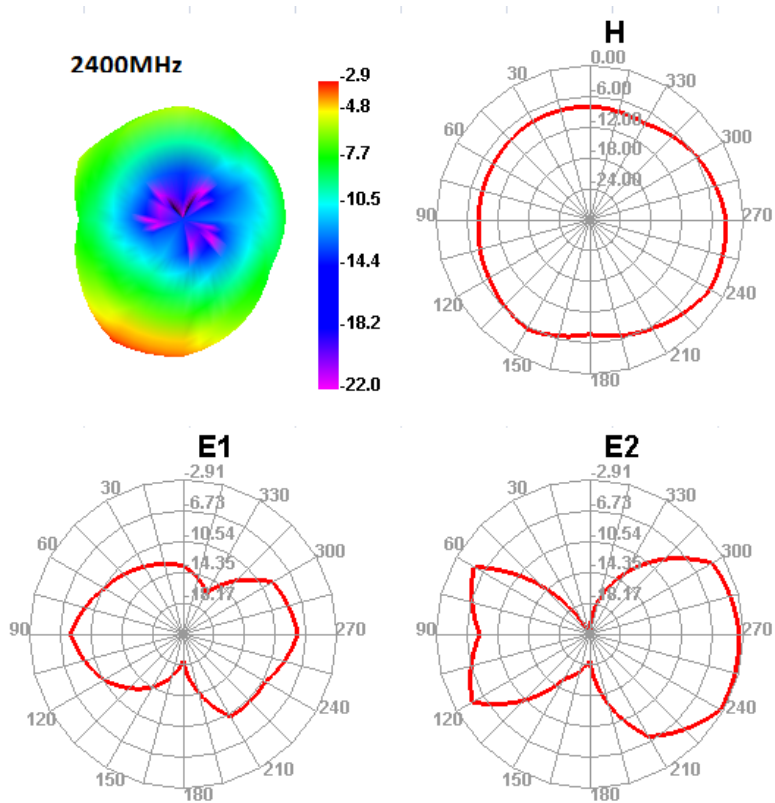


S11

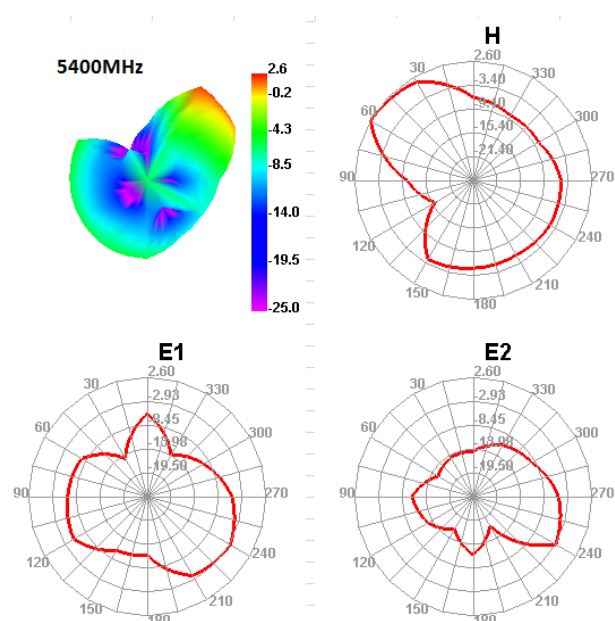


5-3.WIFI Antenna Gain/Efficiency/Radiation Pattern of 3D

Passive Test For 2.4G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	19.08	-7.19	-2.90
2410	19.61	-7.08	-2.36
2420	19.75	-7.04	-2.31
2430	19.49	-7.1	-2.2
2440	19.94	-7	-2.29
2450	19.98	-6.99	-2.14
2460	20.25	-6.94	-2.06
2470	19.55	-7.09	-2.35
2480	18.95	-7.22	-2.8
2490	18.54	-7.32	-2.88
2500	21.07	-7.84	-1.89



Passive Test For 5G			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5000	15.22	-8.18	-0.37
5040	14.17	-8.49	-0.61
5080	15.86	-8	0.73
5120	16.72	-7.77	0.72
5160	16.32	-7.87	0.54
5200	15.92	-7.98	0.07
5240	16.54	-7.81	-0.35
5280	15.08	-8.21	-0.23
5320	18.05	-7.43	0.69
5360	17.28	-7.62	0.33
5400	28.43	-5.46	2.6
5440	21.75	-6.62	1.59
5480	23.44	-6.3	1.2
5520	25.41	-5.95	1.93
5560	23.21	-6.34	1.08
5600	18.42	-7.35	-0.43
5640	18.42	-7.35	-0.88
5680	20.51	-6.88	0.12
5720	24.52	-6.1	0.94
5760	21.29	-6.72	1.12
5800	20.4	-6.9	-0.48



5. Antenna Dimensions (unit: mm)

