

Cap Deep Communications

Antenna datasheet

Product model: B255HX

Issue Date: July 11, 2025

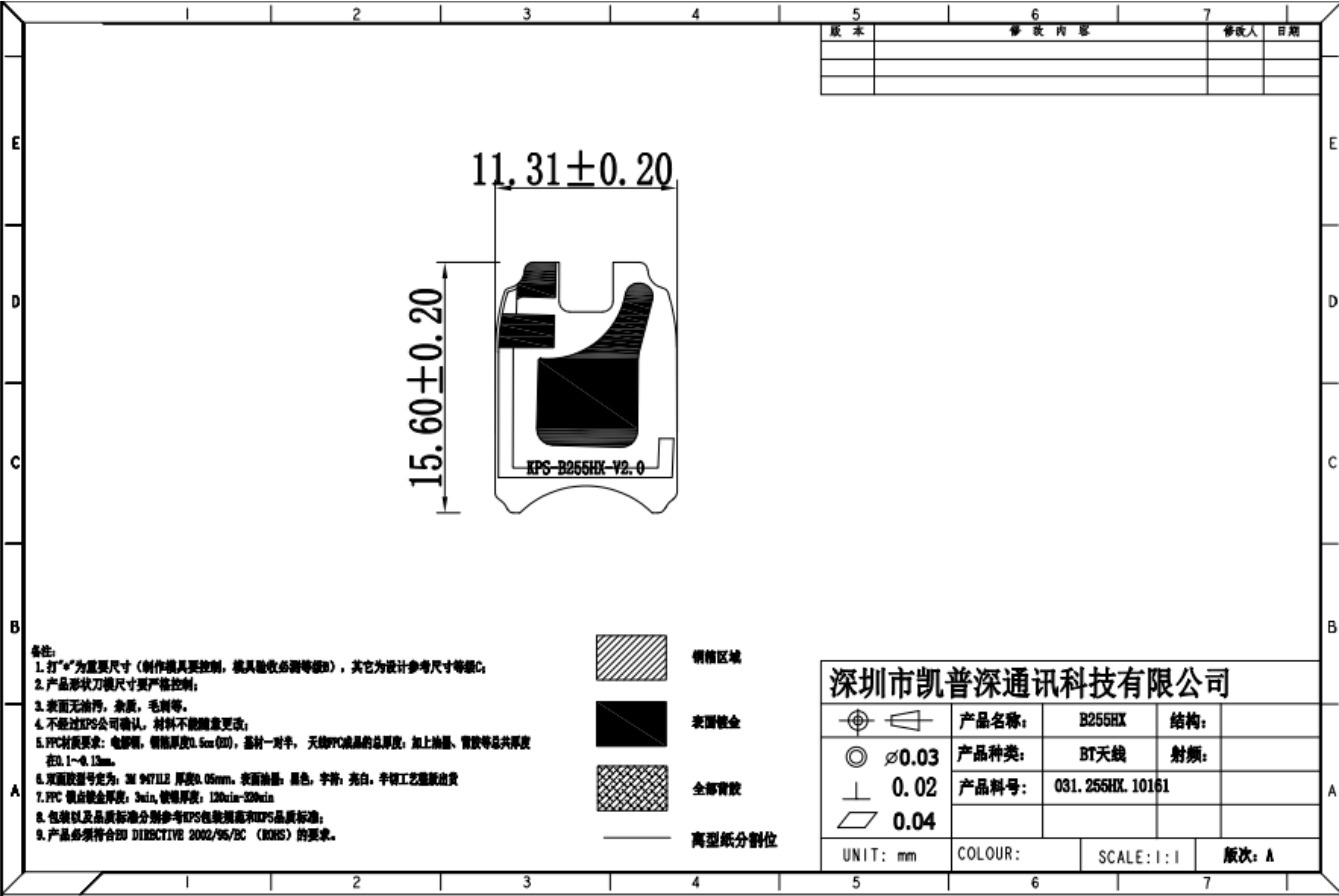
Specification description:

2.4G built-in FPC with adhesive backing KPS-B255HX-V2.0 ROHS
certification

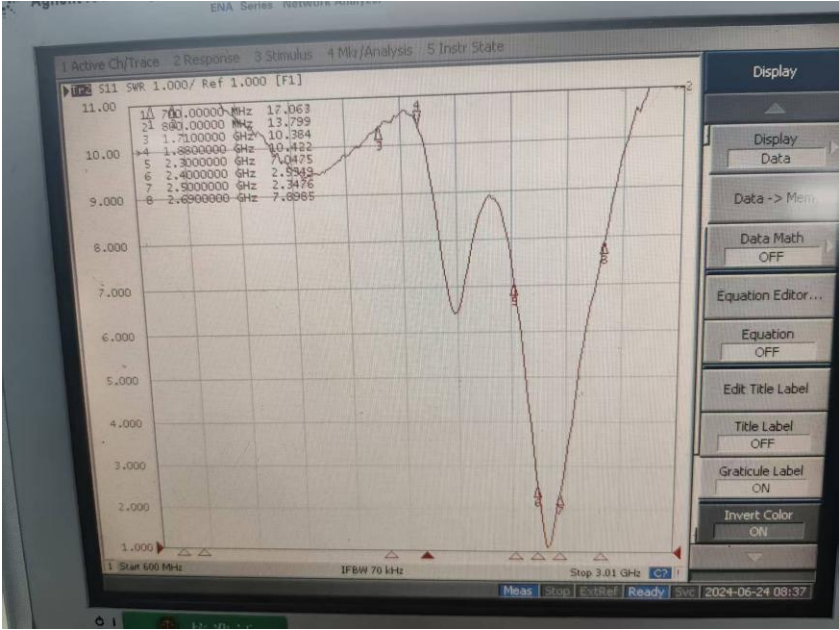
Shenzhen Kaipushen Communication Technology Co., Ltd

The second floor of the Yulong Office Building, Longcheng Industrial Zone,
No. 440 Longguan Avenue, Longhua District, Shenzhen

1、Structural Dimension Drawing (CAD Drawing)



2、Network analyzer test report



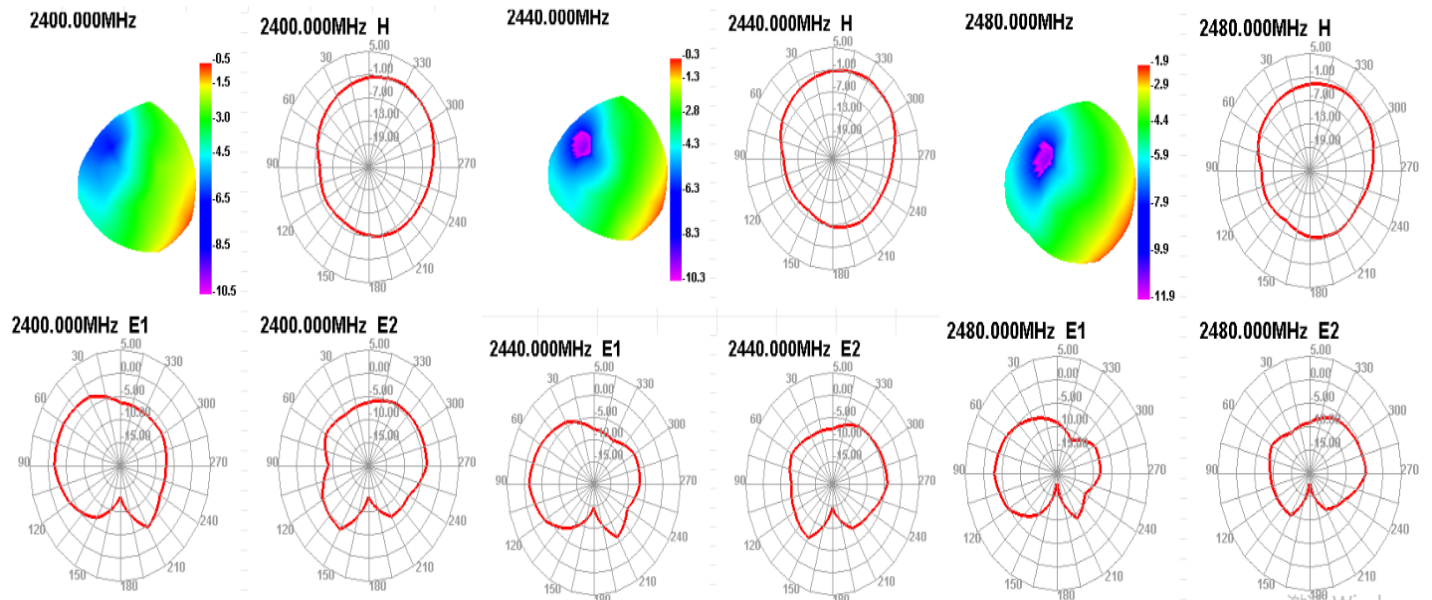
3. Gain, efficiency

Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	32.23	-4.92	-0.53
2410	32.2	-4.92	-0.41
2420	32.11	-4.93	-0.25
2430	30.04	-5.22	-0.37
2440	29.73	-5.27	-0.25
2450	27.9	-5.54	-0.47
2460	26.91	-5.7	-0.57
2470	23.66	-6.26	-1.2
2480	20.71	-6.84	-1.88
2490	23.26	-6.33	-1.54
2500	19.91	-7.01	-2.42

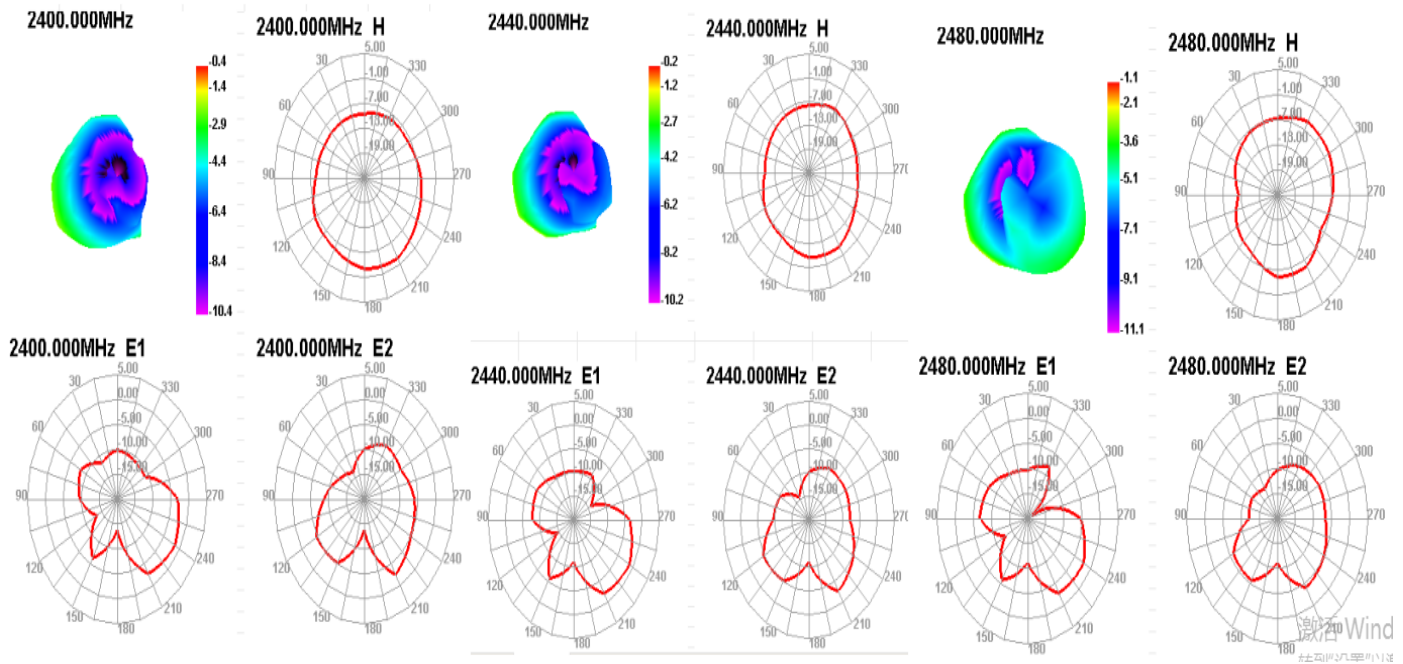
Passive Test For WIFI2.4			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	24.07	-6.19	-0.41
2410	23.43	-6.3	-0.42
2420	24.33	-6.14	-0.25
2430	24.89	-6.04	-0.11
2440	24.35	-6.14	-0.24
2450	24.61	-6.09	-0.18
2460	24.35	-6.13	-0.33
2470	22.56	-6.47	-0.79
2480	21.4	-6.7	-1.12
2490	22.22	-6.53	-1.09
2500	19.45	-7.11	-1.81

L

R



L

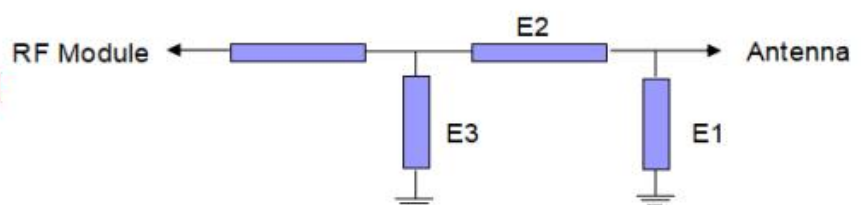


R

4、Antenna OTA test data

自由							
L	0	7.6	-85.1	R	0	8.1	-85.1
	39	8.2	-86.1		39	8.4	-85.6
	78	7.8	-85.9		78	8.2	-86.2
头模							
L	0	3.6	-80.4	R	0	3.5	-80.5
	39	3.5	-81.3		39	4.2	-81.7
	78	3.4	-80.9		78	3.8	-80.8

5、Antenna matching circuitry



E1	1.5NH
E2	0Ω
E3	NC