



Shenzhen Jianhaitong Antenna Technology Co., Ltd



Antenna test report

Test report

March 9th, 2026

WWW.KBT-CHINA.COM

Guangdong
Jianbotong
Voucher
code831958

(catalogue) :

1. (Model Information)
2. (Company profile)
3. (Passive and Matching)
4. (3D Active Test Data) : 无
5. (Environmental treatment)
6. (Structural drawing)
7. (Summary)



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1、 (Model Information)

Manufacturer	Delanda Technology	RF	HuangZhiChao
Model Name	KIT-D75-2.4WF	Email	
Antenna Type		Band	WiFi-2.4G
Model pictures :			

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2、Company Introduction (Company profile) -About Jianbotong



The company was founded in 1995, After 23 years of development, It has grown to about 500 employees, A company with a registered capital of 67.65 million yuan. The company covers an area of 60 acres, Area**55,000**square metre, Workshop area**36,000**square metre, Warehouse area**13,000**square metre, Annual production capacity up to**2,400万**Secondary / year antenna, There are more than 4,000 product models.

- ◆Famous trademark in Guangdong Province
- ◆National high-tech enterprise
- ◆Contract-abiding and credit-worthy enterprise in Guangdong Province for 20 consecutive years
- ◆Top 10 antenna production enterprises in China
- ◆Guangdong Engineering Technology Research Center
- ◆In 2015, the New Third Board was listed, Stock symbol**1831958**

3、 (Passive and Matching)

3.1 Schematic of a passive test

S11 Description of the test method

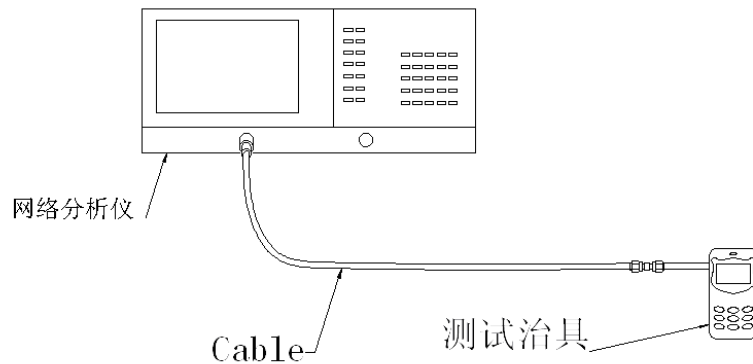
Test the equipment:

Network analyzer(E5071C 30k-8.5Ghz)

Test methodology:

Use a 50 ohm CABLE cable to export from the instrument test port, Connect the prototype after calibration using the calibration kit

SMA joint for the tool, Record the return loss and VSWR corresponding to the frequency point of interest.



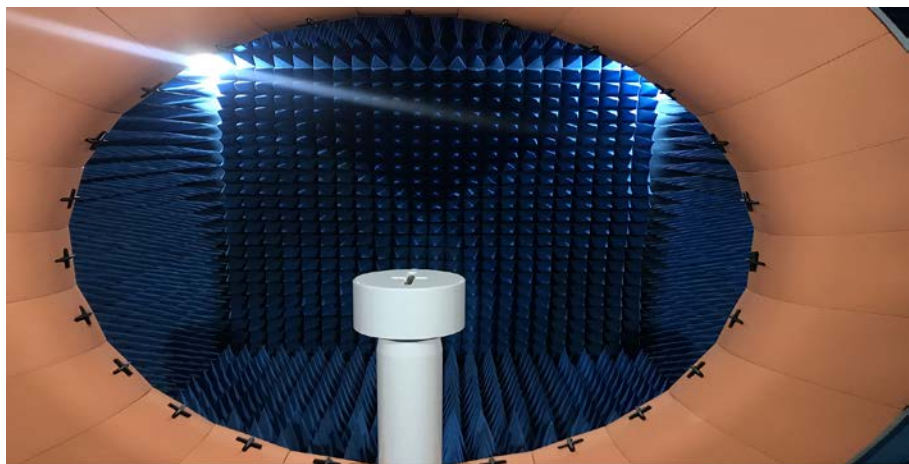
3.2 Active test schematic

3D Test System: Shielded darkroom

Test environment: temperature $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$, humidity $50\% \pm 15\%$

Test equipment: When testing passive data, use the network analyzer Agilent E5071C

When testing active data, use the Synthetic Tester 8960/CMW500



总全向辐射功率 (TIRP)

$$TIRP \cong \frac{\pi}{2NM} \sum_{i=1}^{N-1} \sum_{j=0}^{M-1} [Eirp_{\theta}(\theta_i, \phi_j) + Eirp_{\phi}(\theta_i, \phi_j)] \sin(\theta_i)$$

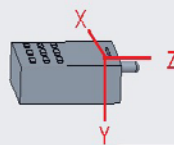
总全向辐射灵敏度 (TIRS)

$$TIRS \cong \frac{2NM}{\pi \sum_{i=1}^{N-1} \sum_{j=0}^{M-1} \left[\frac{1}{EIS_{\theta}(\theta_i, \phi_j)} + \frac{1}{EIS_{\phi}(\theta_i, \phi_j)} \right]} \sin(\theta_i)$$

E1: XZ的切面 PHI=0

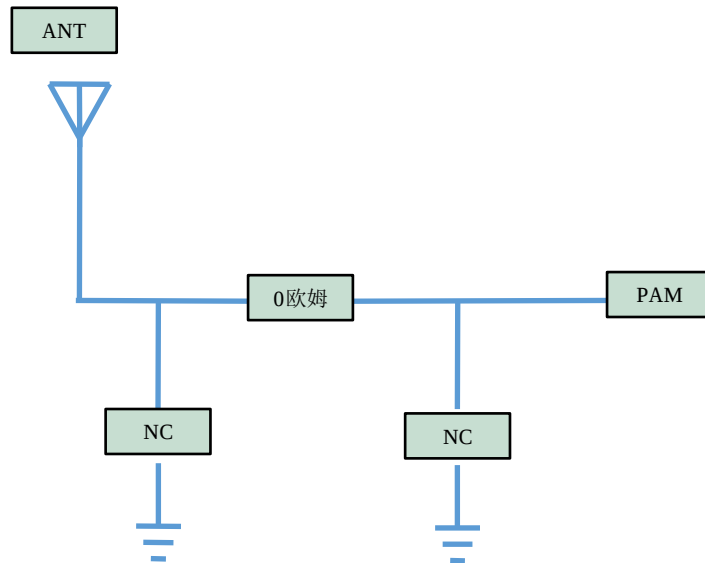
E2: YZ的切面 PHI=90

H: XY的切面 Theta=90



以喇叭天线为参考

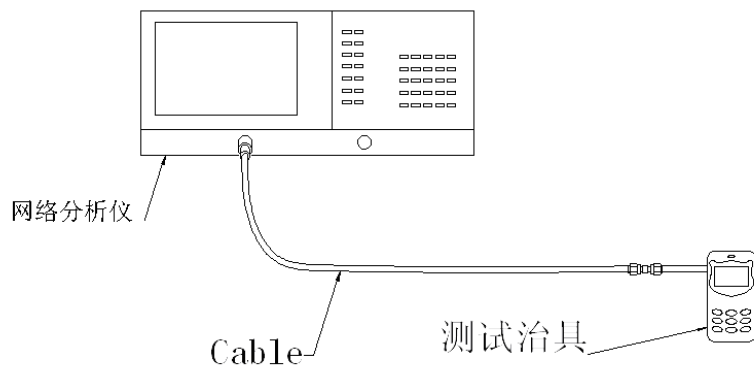
3. (Matching Circuit)



Motherboard matching has not changed.

concentrate: Original string 0 ohms,
From the antenna-----String 0 ohm
resistor -----PA

S11参数



S11 test method description



Test the equipment:
Network analyzer(E5071C 30k-8.5Ghz)

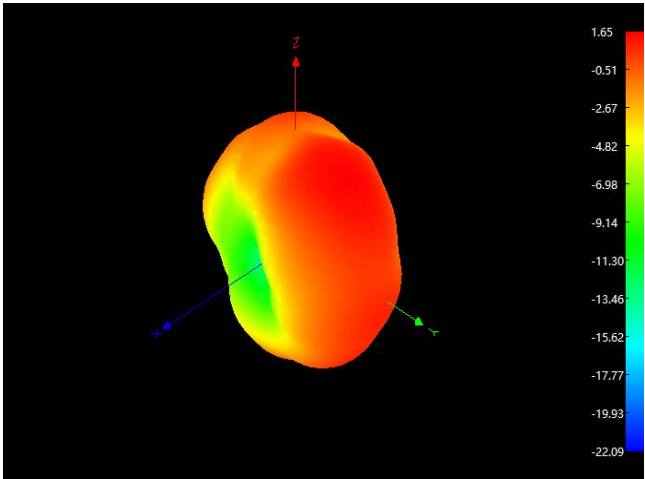
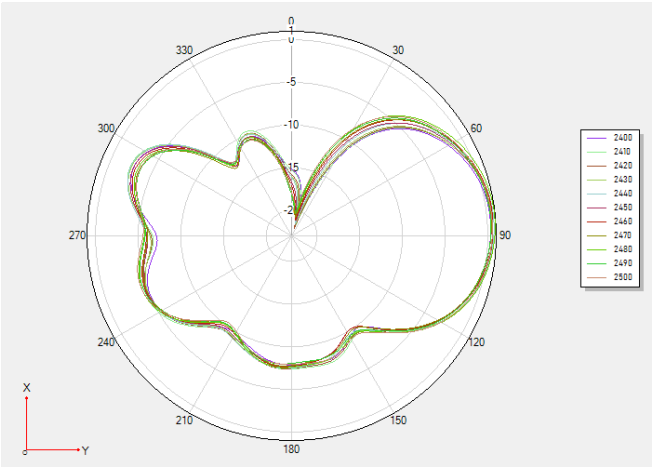
Test methodology:
Use a 50 ohm CABLE cable to export from the instrument test port, Connect the prototype after calibration using the calibration kit SMA joint for the tool, Record the return loss and VSWR corresponding to the frequency point of interest.

(MHz)	2400		2500			
Standing ratio	1.4		1.4			

WIFI main antenna
Passive parameters.



Frequency / MHz	Efficiency / %	Gain/ dB
2400	35.08	0.96
2410	35.92	1.44
2420	37.86	1.44
2430	35.81	1.6
2440	38.98	1.61
2450	37.21	1.63
2460	37.21	1.5
2470	36.77	1.5
2480	38.19	1.73
2490	36.24	1.46
2500	35.5	1.65



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5、 (Environmental handling and assembly instructions)

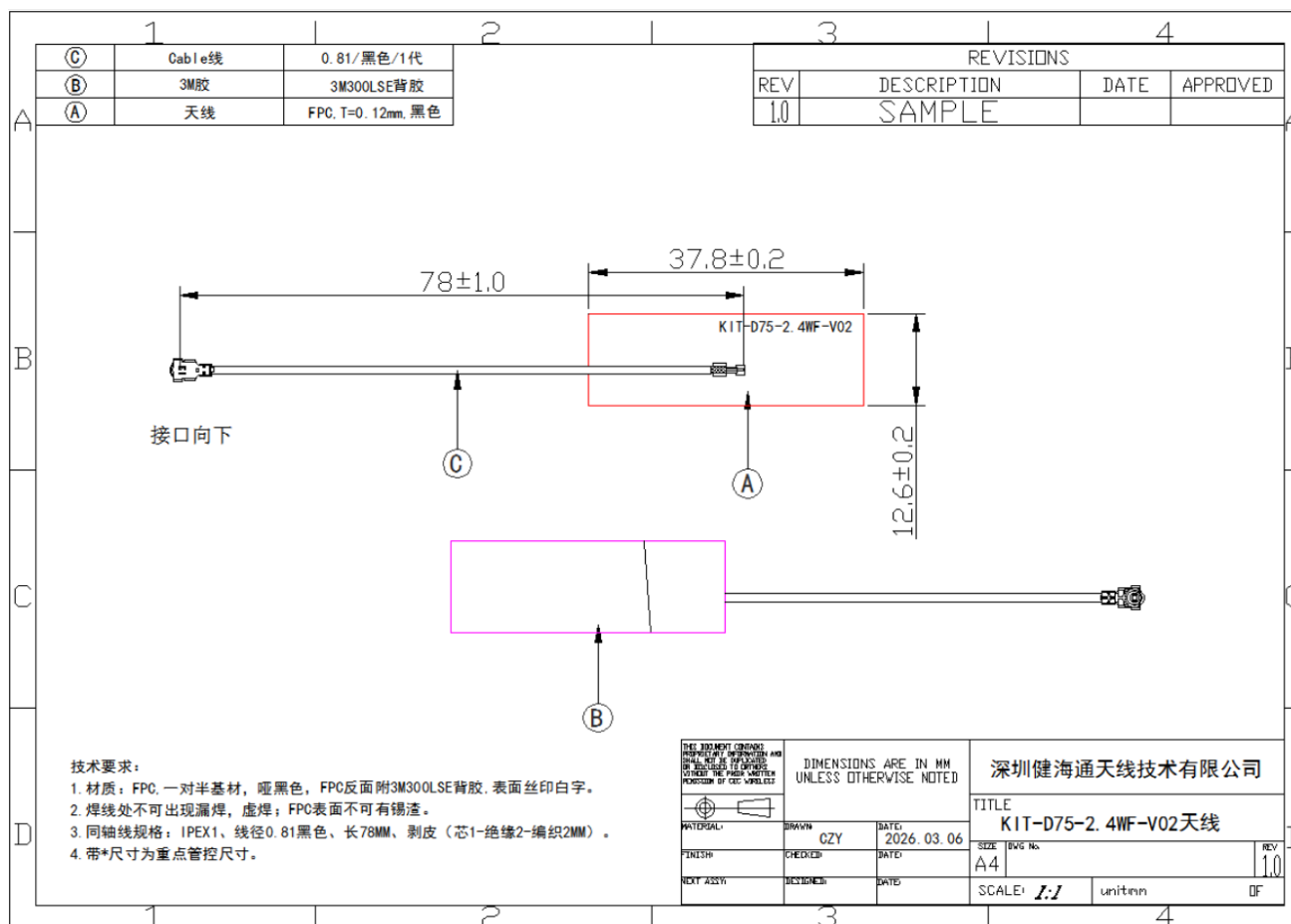


wifi 2.4G

The soldering method is shown in the figure.

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6、 (Structural drawing)





Note: 1. This report is obtained based on the actual debugging and testing of the debugging prototype, in which the environmental treatment, antenna position and assembly position of each device cannot be changed arbitrarily;

2. If the materials used in the prototype change, it is necessary to feedback to our company in time for re-verification;

3. List of sensitive devices:

TP (material, coating, trace, etc.)

Screen (amplification circuit, LED, cable design, etc.)

Shell material (antenna assembly method, structural interference, shell material, antenna position, height and area, etc.)

Motherboard (motherboard conduction, RF circuit matching, PA, duplex, filter, LNA, power circuit, etc.)

Camera, battery, motor, MIC, fingerprint recognition module, etc

4. Due to the small number of debugging prototypes or only one, some probabilistic problems cannot be completely found, it is recommended to check the problem points (such as splash screen flower screen, speaker noise, TP jump point, black screen of death, signal diving, etc.) before mass production)

Thank you