

MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

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Applicant : XingKuang Innovation Technology (Suzhou) Co., Ltd.
Address of Applicant : 12th Floor, Building 2, No. 1463, Wuzhong Avenue,
Wuzhong District, Suzhou, Jiangsu Province, China

Product Name : SmartCam Health Feeder
Brand Name : Lingwei
Model Name : PF20A
Sample Acquisition Method : Sent by Client

Sample No. : E25060038-01#01
E25060038-01#02

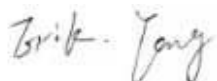
FCC ID : 2BOGG-PF20A
Standard : FCC Part 2.1091

Date of Receipt : 2025-06-11
Date of Test : 2025-07-04~ 2025-07-08
Date of Issue : 2025-07-09

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by:



(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Applicant Company Name	XingKuang Innovation Technology (Suzhou) Co., Ltd.
Applicant Company Address	12th Floor, Building 2, No. 1463, Wuzhong Avenue, Wuzhong District, Suzhou, Jiangsu Province, China
Contact Person	Chunlei Deng
Telephone	18951582775
Email	certificate@dreame.tech
Manufacturer Company Name	XingKuang Innovation Technology (Suzhou) Co., Ltd.
Manufacturer Company Address	12th Floor, Building 2, No. 1463, Wuzhong Avenue, Wuzhong District, Suzhou, Jiangsu Province, China
Factory Company Name	Moke Intelligent Technology (Suzhou) Co., Ltd.
Factory Company Address	4th Floor, Building 6, No.1999 Songjia Road, Guoxiang Street, Wuzhong Economic Development Zone, Suzhou, Jiangsu Province, P.R.

1.3 Details of EUT

Product Name	SmartCam Health Feeder	
Brand Name	Lingwei	
Test Model Name	PF20A	
FCC ID	2BOGG-PF20A	
Mode of Operation	WIFI 802.11b/g/n(HT20) for 2.4GHz Bluetooth LE	
Frequency Range	Mode	Frequency Range (MHz)
	802.11b/g/n(HT20)	2412~2462
	Bluetooth LE	2402~2480
Modulation Type	DSSS/OFDM for WIFI 2.4GHz GFSK for Bluetooth LE	
Antenna Type	FPC Antenna	
Antenna Gain	3.29dBi	
Hardware version	V1.1	
Software version	1027	

Note:

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1. The above information was declared by the manufacture.
2. For more details, please refer to the User's manual of the EUT.

2 Maximum Permissible Exposure (MPE)

2.1 Limits

According to KDB 447498 D01 General RF Exposure Guidance v06, Per § 1.1310(d)(2) MPE limits in § 1.1310(e)(1) - Table 1, systems operating under the provisions of this section shall be operated in a manner the ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidelines.

TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3–3.0	614	1.63	*(100)	≤6
3.0–30	1842/f	4.89/f	*(900/f ²)	<6
30–300	61.4	0.163	1.0	<6
300–1,500 .....	.....	.....	f/300	<6
1,500–100,000 .....	.....	.....	5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	<30
1.34–30	824/f	2.19/f	*(180/f ²)	<30
30–300	27.5	0.073	0.2	<30
300–1,500 .....	.....	.....	f/1500	<30
1,500–100,000 .....	.....	.....	1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

2.2 Assessment methods

Calculation Formula from FCC OET 65:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where:

S = Power Density (mW/cm²)

P = Input Power of the Antenna (mW)

G = Antenna Gain Relative to an Isotropic Antenna

R = Distance from the Antenna to the Point of Investigation (cm)

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2.3 Test Result

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)
WIFI 2.4G Band	2412~2462	15.19	3.29	70.469	0.014019	1.0
BLE	2402~2480	-0.10		2.084	0.000415	1.0

Note(s):

1. For 1,500 – 100,000MHz: Power Density limit is 1.0 mW/cm²

2.4 Conclusion

The Power Density at the position which is 20 cm far from the EUT is smaller than the General Population/Uncontrolled Exposure limit.

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3 Appendixes

3.1 Sample Photograph



All of the sample



Front of the sample

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Rear of the sample



Left of the sample

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Right of the sample



Top of the sample

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Bottom of the sample



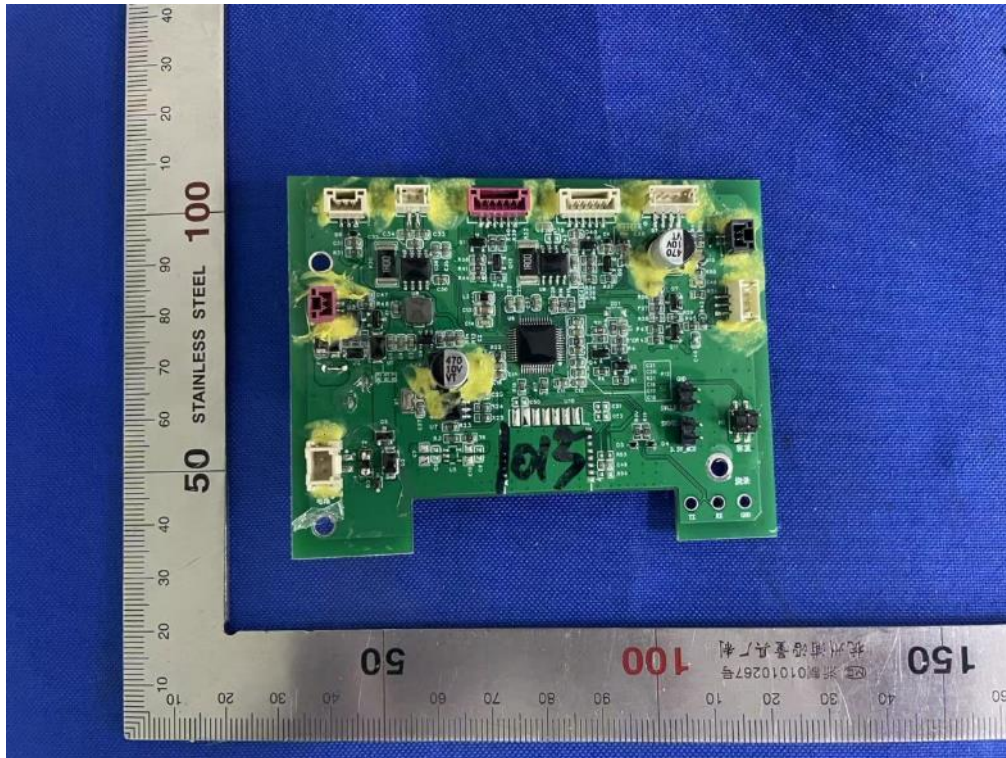
Open-1 of the sample

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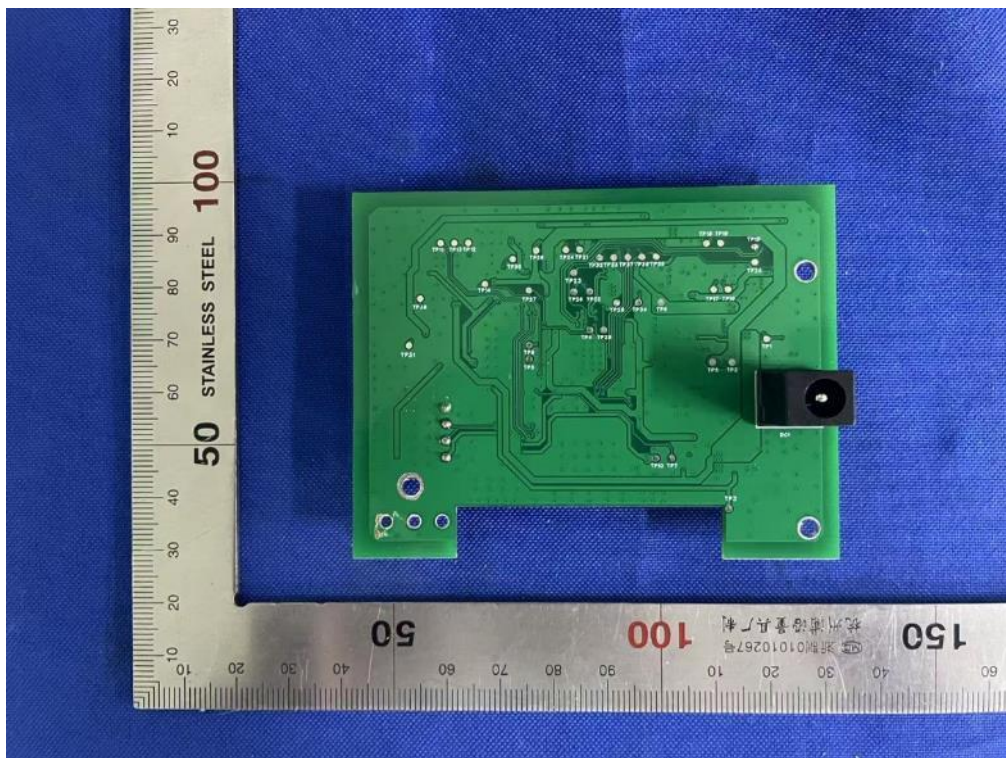
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Internal-1 of the sample



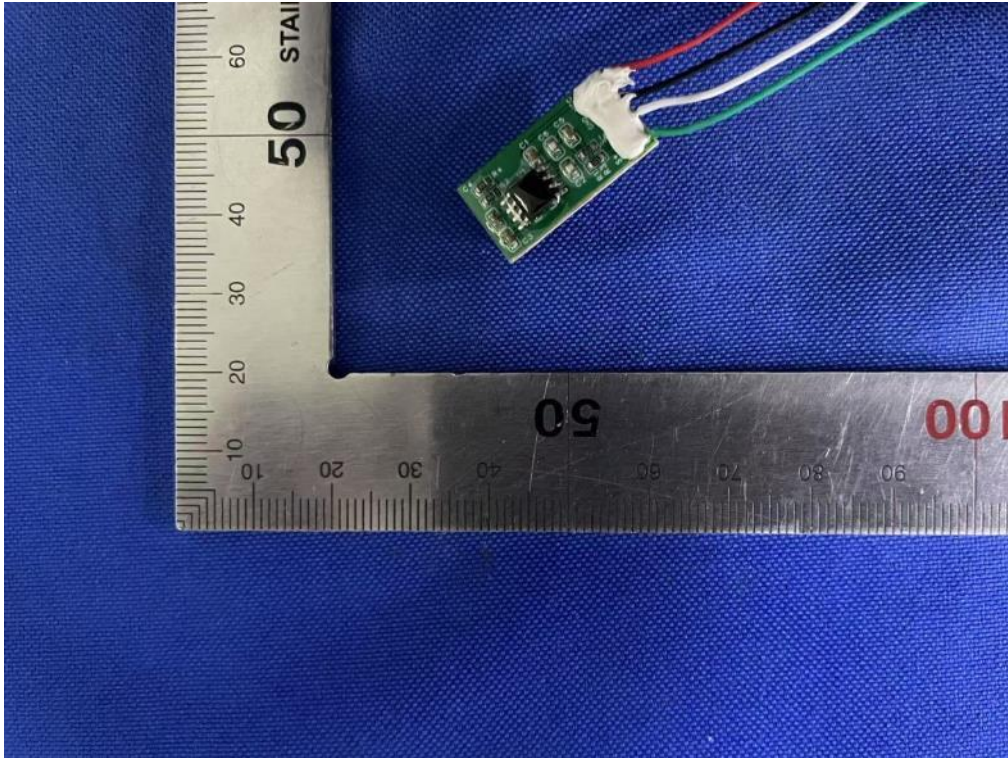
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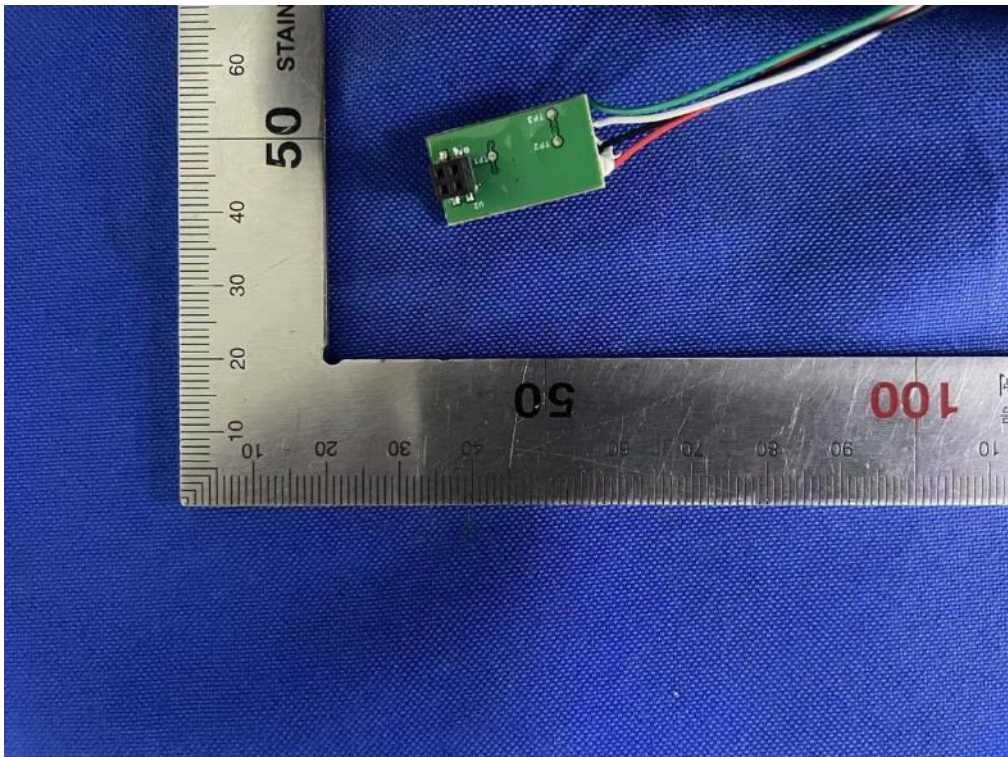
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Internal-3 of the sample



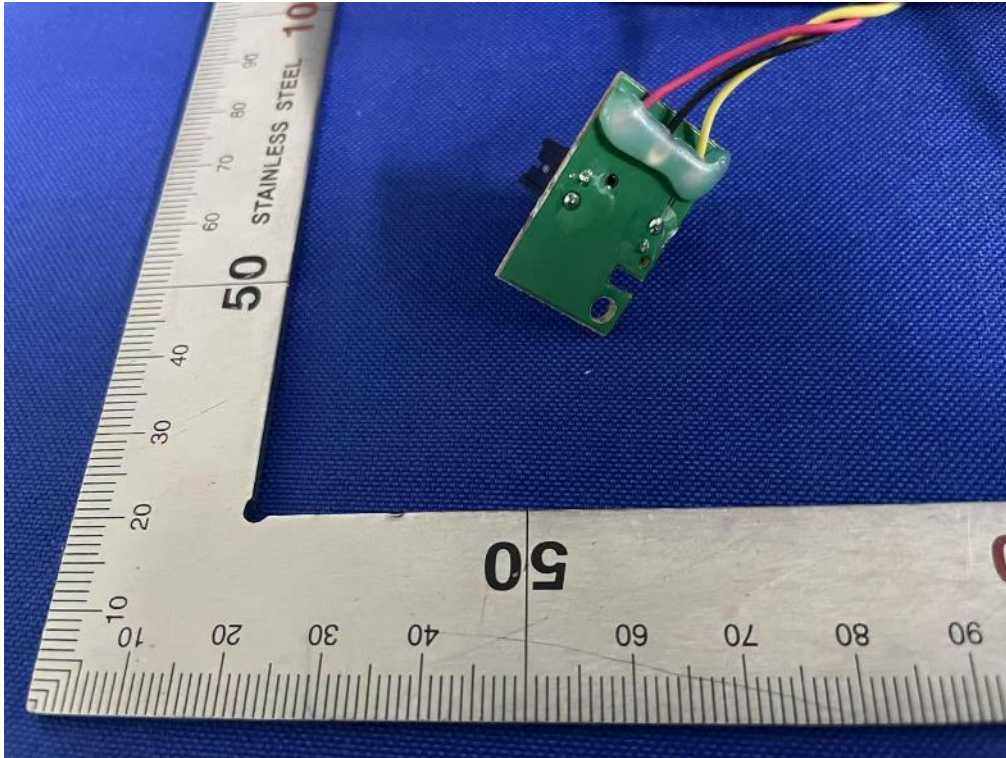
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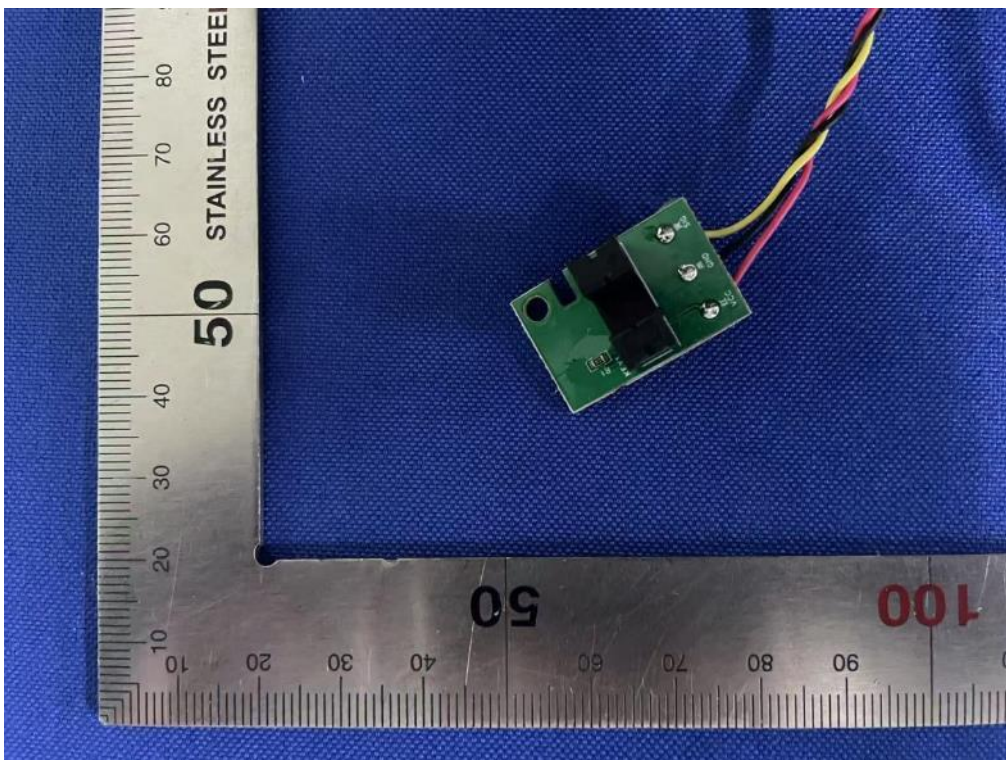
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Internal-5 of the sample



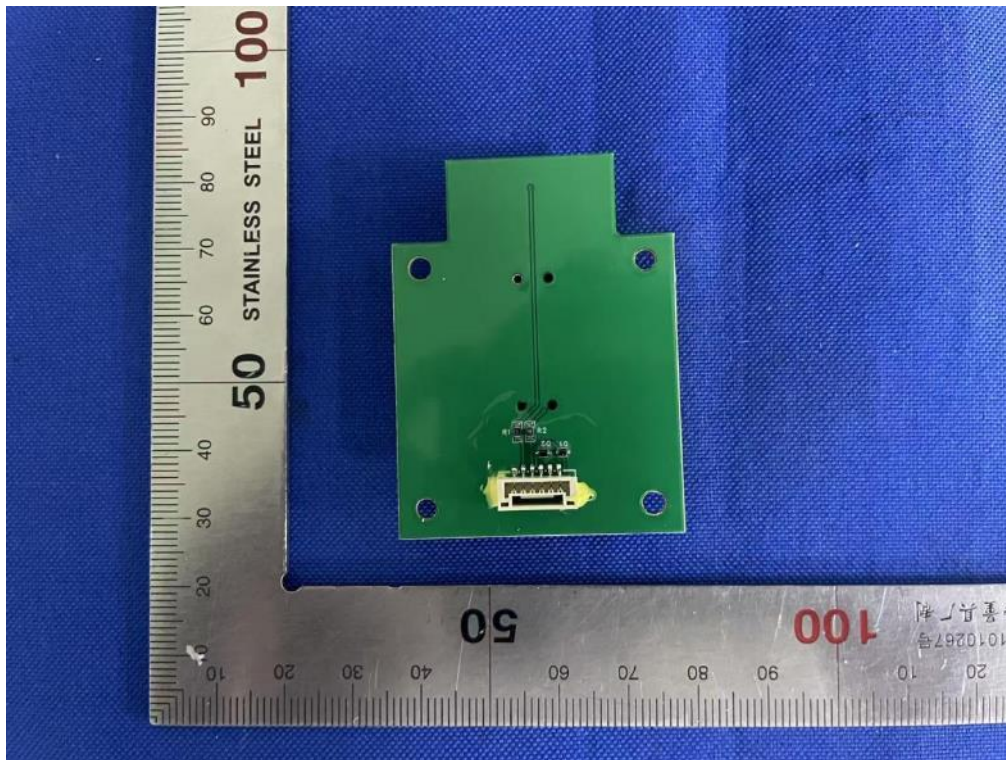
Internal-6 of the sample

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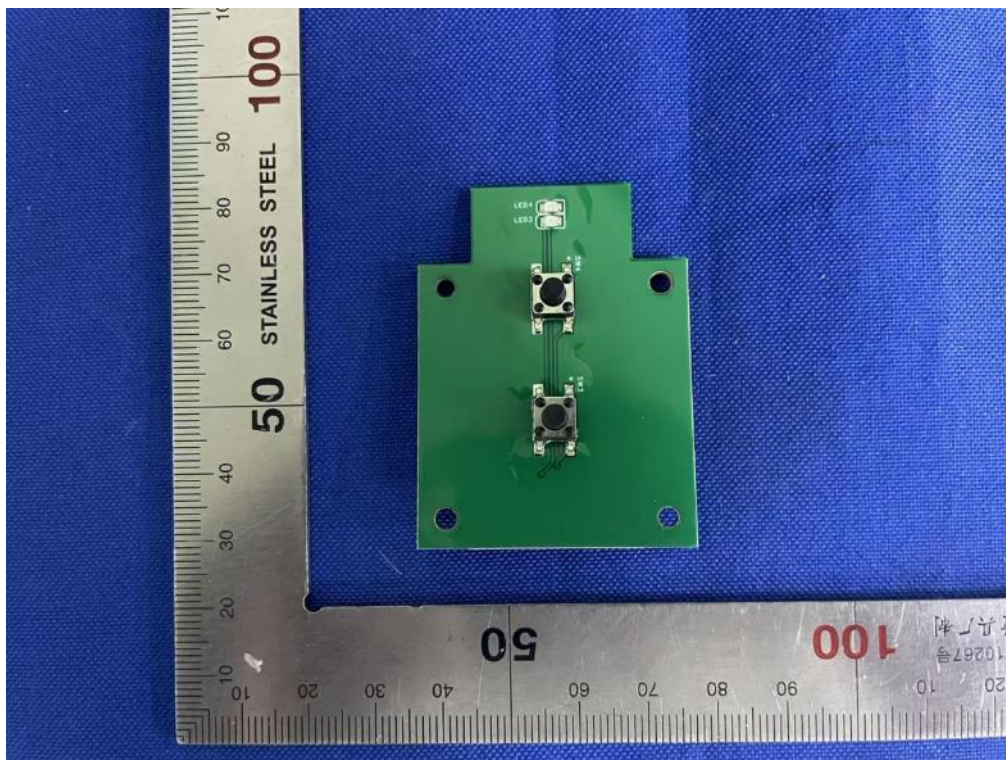
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Internal-7 of the sample



Internal-8 of the sample

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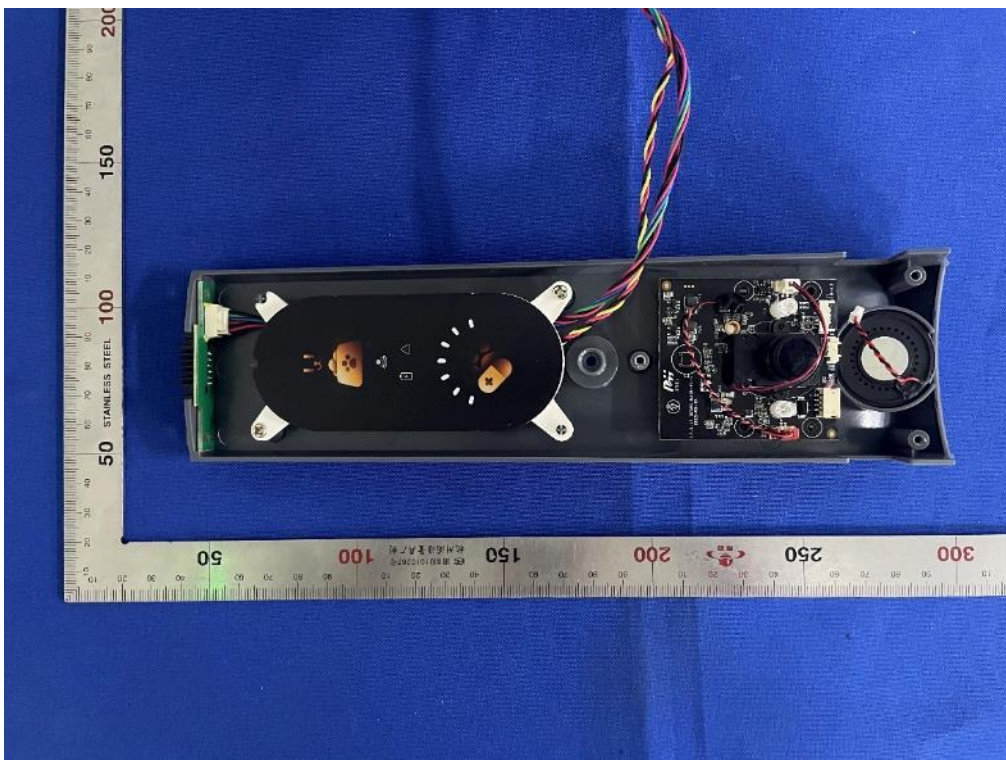
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Internal-9 of the sample



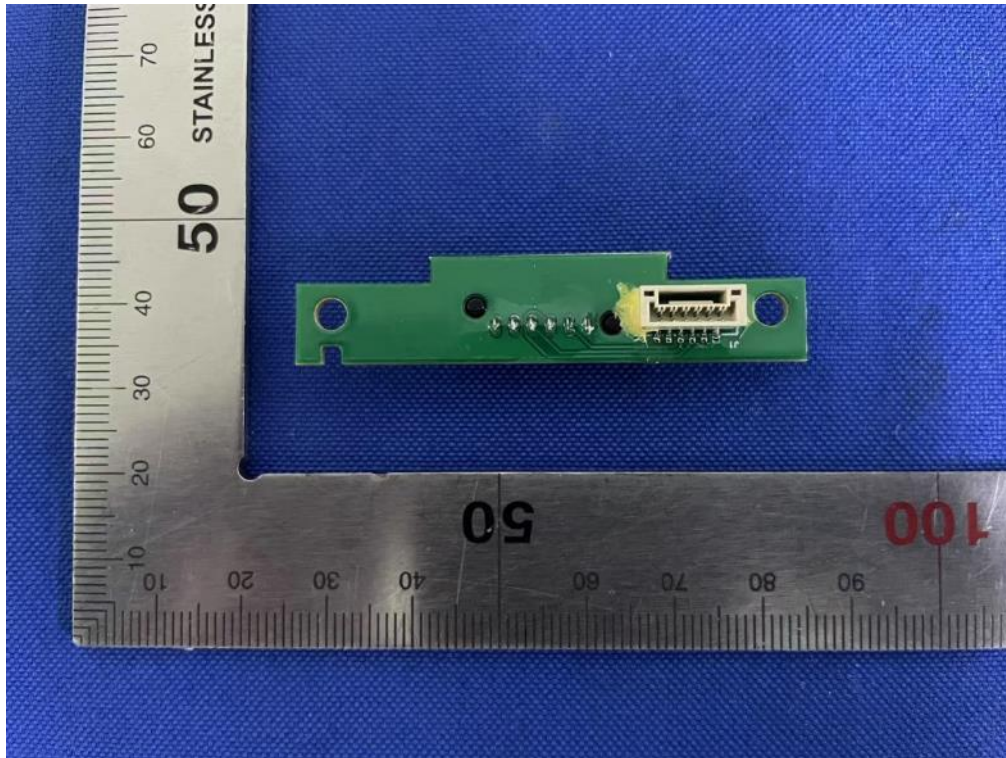
Internal-10 of the sample

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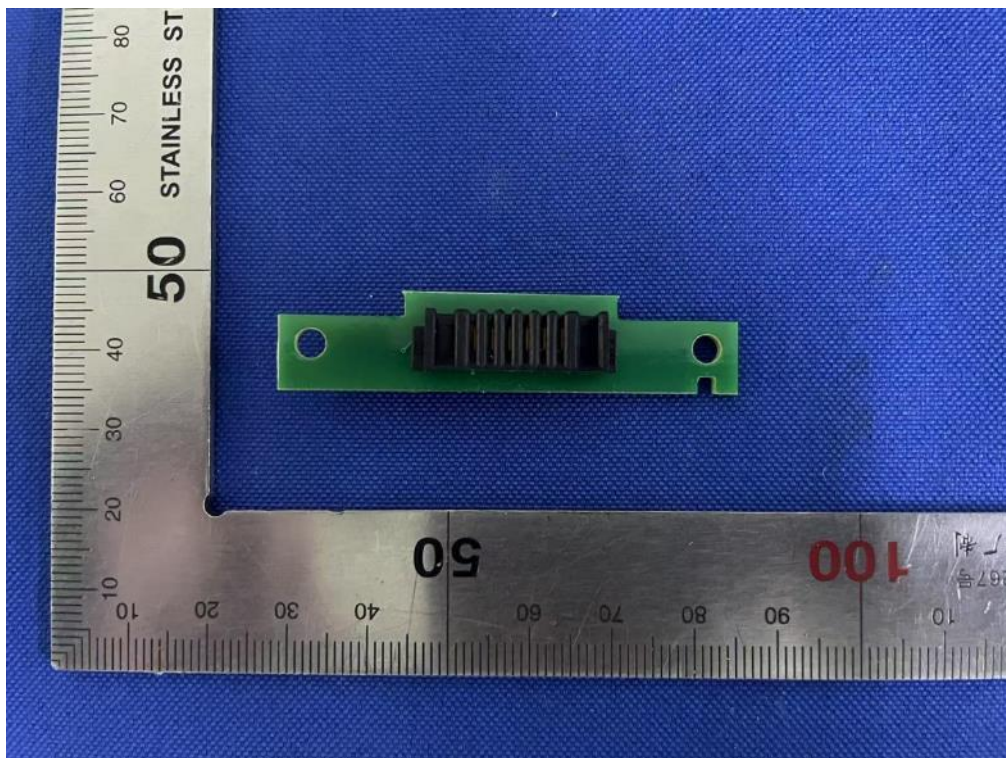
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Internal-11 of the sample



Internal-12 of the sample

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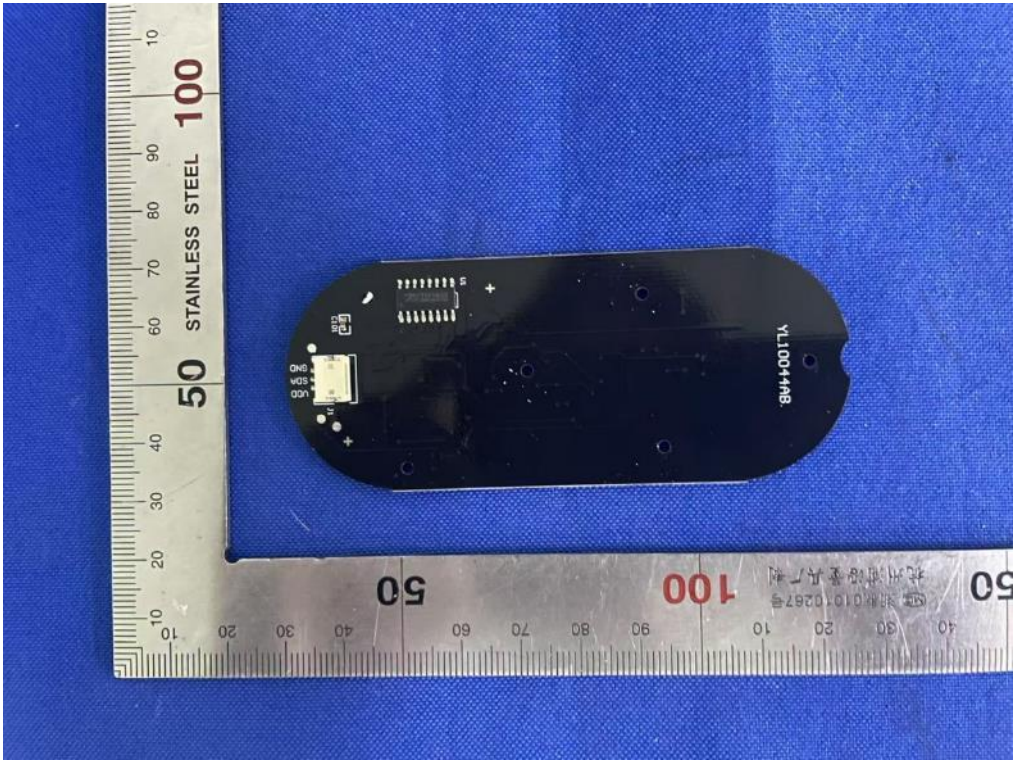
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Internal-13 of the sample



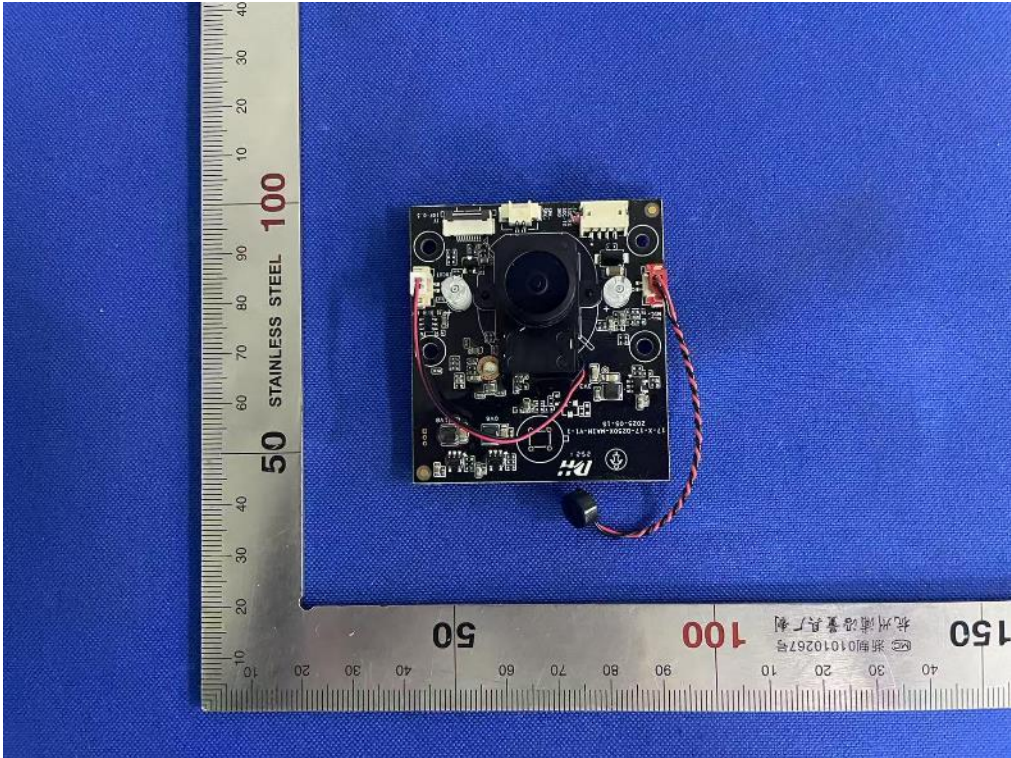
Internal-14 of the sample

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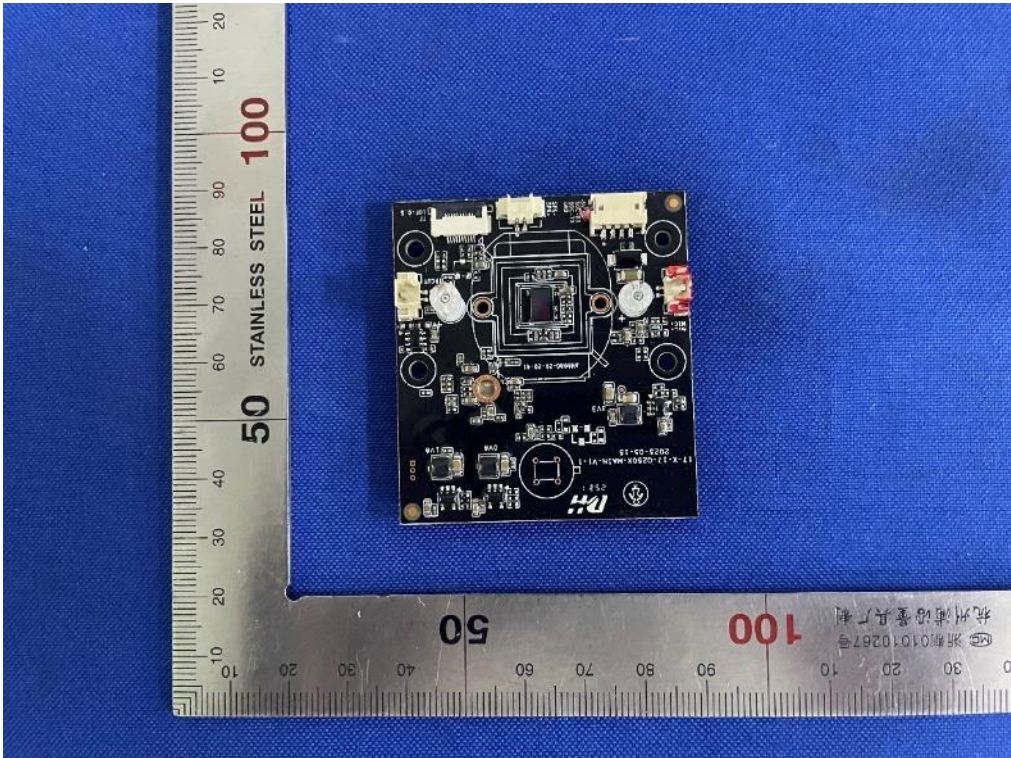
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Internal-15 of the sample



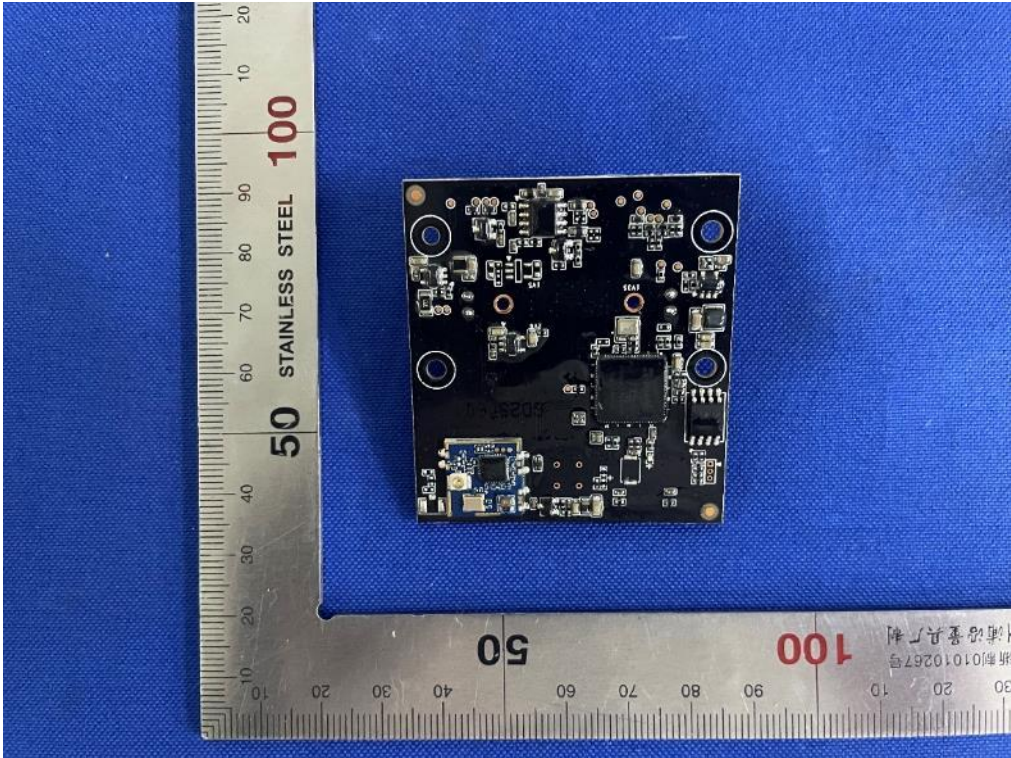
Internal-16 of the sample

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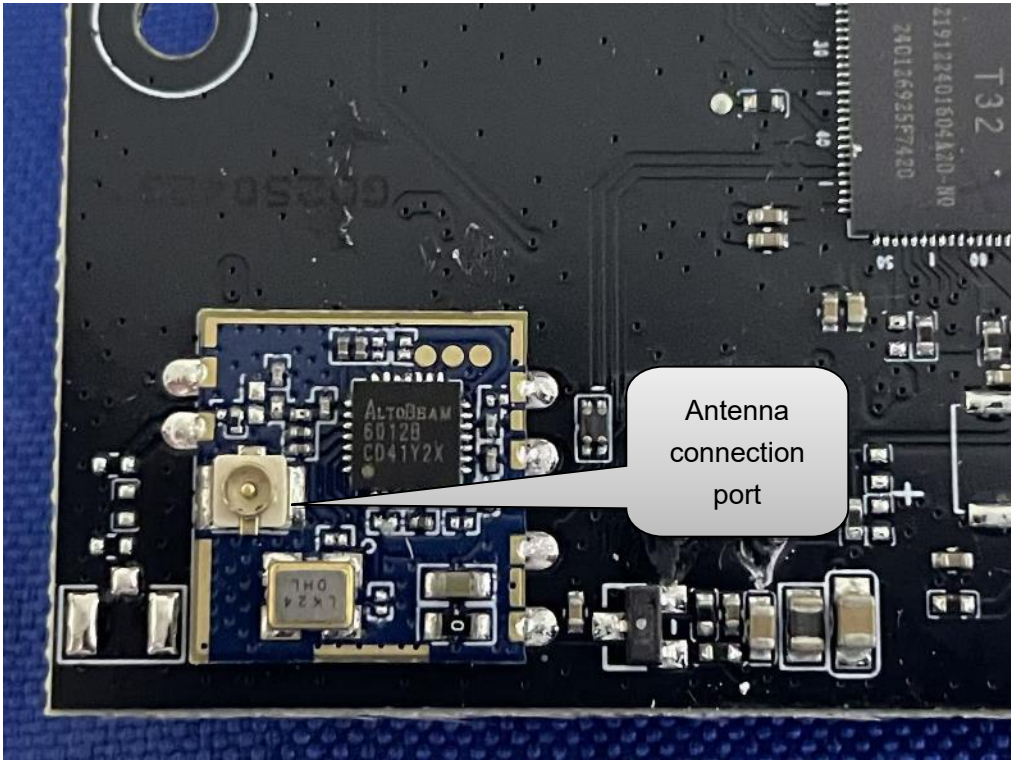
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Internal-17 of the sample



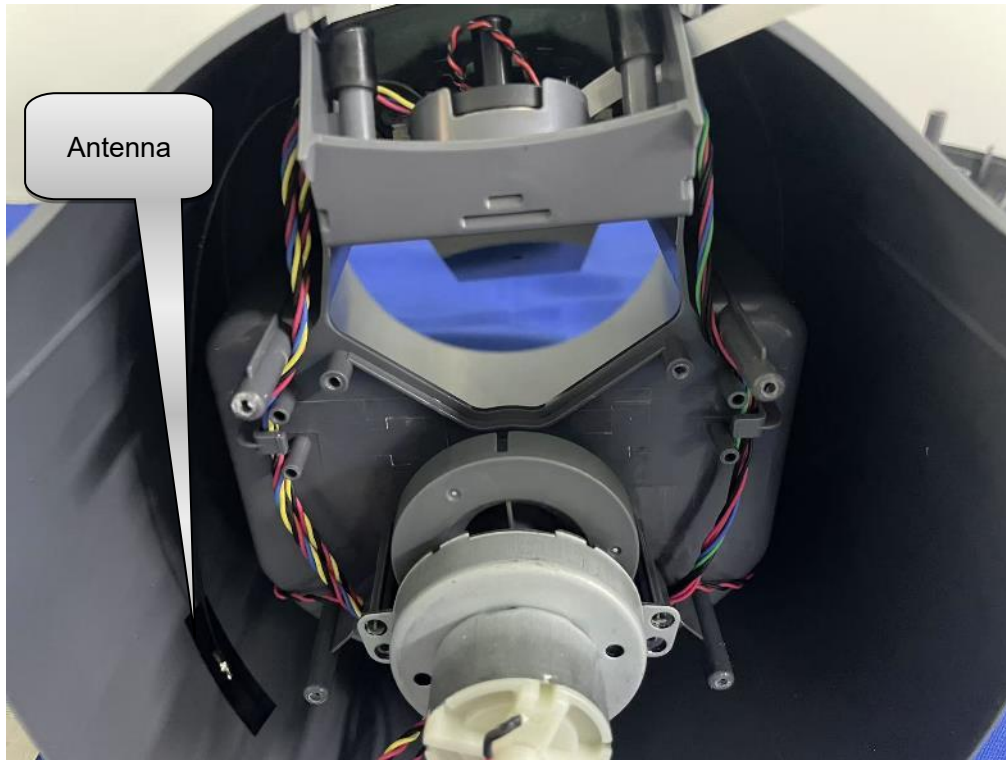
Antenna connection port

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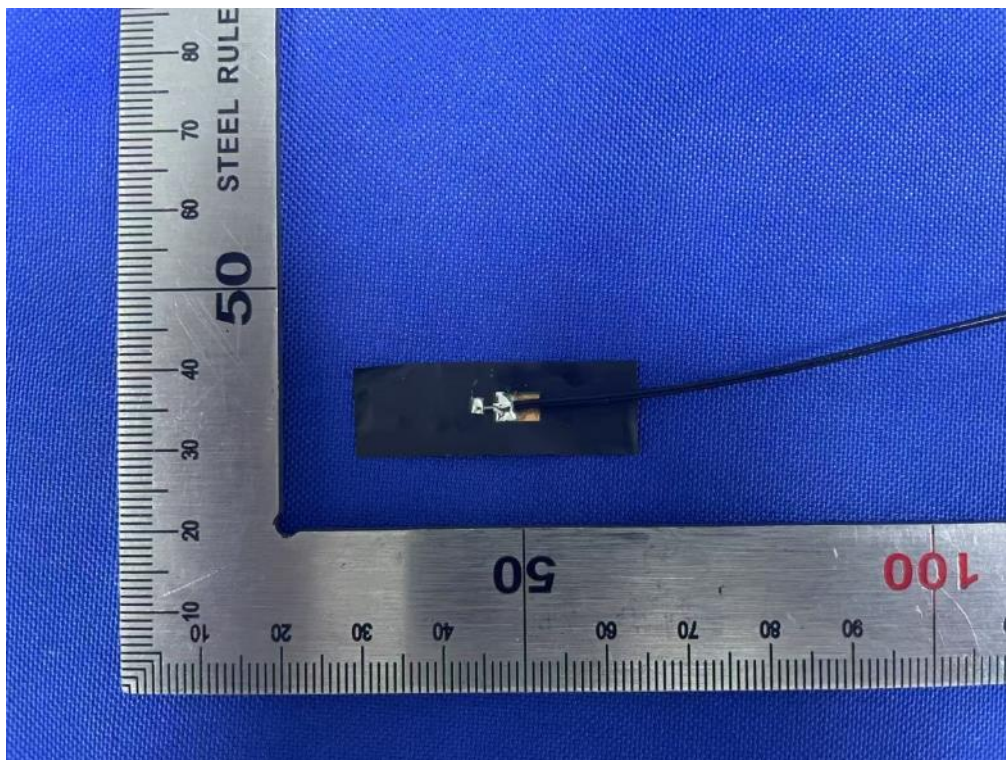
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Antenna Position



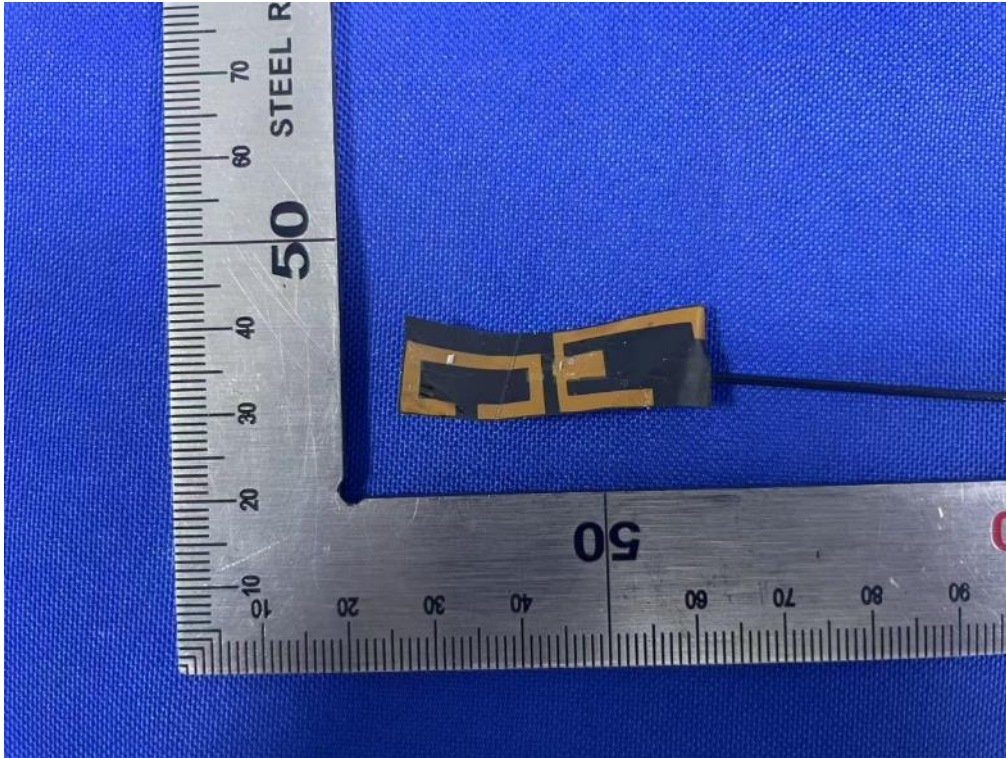
Antenna photo-1

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Antenna photo-2



Adapter-1

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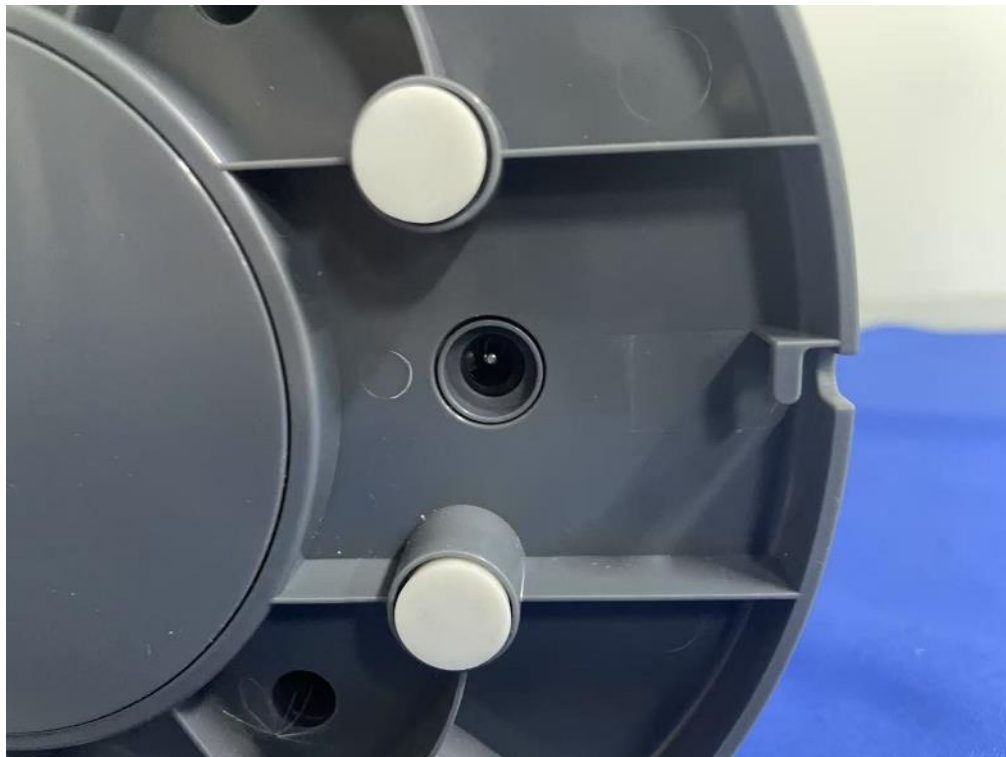
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Adapter-2



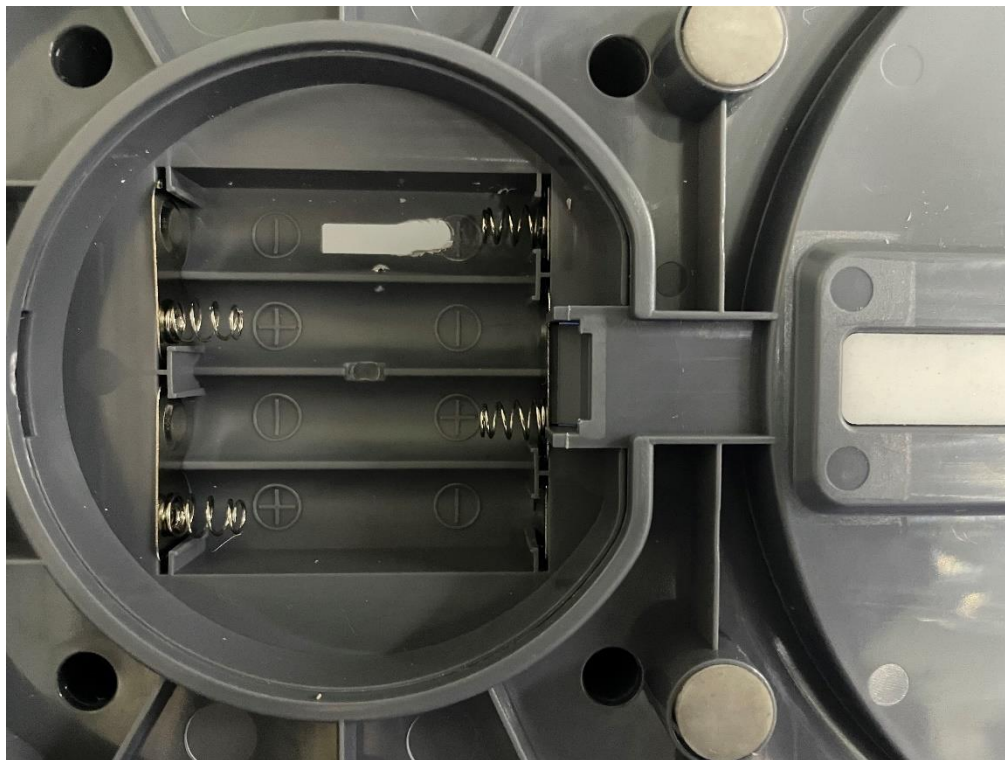
Power Port

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Battery Supply

End of the report