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EN IE	EC 62311:2020 Report
Test Report No:	TCT230508E003
Date of issue:	May 25, 2023
Testing laboratory :	Shenzhen TCT Testing Technology Co., Ltd.
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Applicant's name:	LINKCOM MANUFACTURING CO., LTD
Address:	Building 1, No.21 Huanqi Avenue, Qishi Town Dongguan Guangdong Sheng China
Manufacturer's name :	LINKCOM MANUFACTURING CO., LTD
Address:	Building 1, No.21 Huanqi Avenue, Qishi Town Dongguan Guangdong Sheng China
Standard(s):	EN IEC 62311:2020
Product Name:	wireless charging pad
Trade Mark:	N/A (C) (C)
Model/Type reference :	OPP130, OPP002
Rating(s):	DC 5V(Adapter input AC 230 V/ 50 Hz)
Date of receipt of test item	May 08, 2023
Date (s) of performance of test:	May 08, 2023 - May 25, 2023
Tested by (+signature) :	Rleo LIU
Check by (+signature) :	Beryl ZHAO
Approved by (+signature):	Tomsin

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Report No.: TCT230508E003

TABLE OF CONTENTS

	1.1. EUT description	<u> </u>	2/	3
	1.2. Model(s) list			3
2.	General Information			4
	2.1. Test environment and mode		\sim	4
	2.2. Description of Support Units			4
	2.3. Test Instruments List		<u></u>	5
3.	Facilities and Accreditations			6
	3.1. Facilities			6
	3.2. Location	<u> (,G) </u>		6
	3.3. Measurement Uncertainty			6
4.	Technical Requirements Specification	on in EN IEC	62311	7

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1. General Product Information

1.1. EUT description

Product Name	: wireless charging pad	
Model/Type reference	: OPP130	
Operation Frequency	: 115.38kHz – 150.64kHz	
Test Frequency	: 137.60kHz	
Modulation	: Load modulation	
Operational Mode	: Mode 4: energy transmission	
Antenna Type	: Inductive loop coil Antenna	
Rating(s)	DC 5V(Adapter input AC 230 V/ 50 H	łz)
1.2. Model(s) list	N N	N

1.2. Model(s) list

None.



Report No.: TCT230508E003



2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 5V(Adapter input AC 230 V/ 50 Hz)
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Operational Mode	Mode 4: energy transmission

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	EP-TA200	R37M4PR3QD1SE3	/	SAMSUNG
Mobile Phone	SM-G9350	R28HA2ER3GT	/	SAMSUNG

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

Report No.: TCT230508E003



2.3. Test Instruments List

Report No.: TCT230508E003

		nducted Emissi	T		
Name	Model No.	Manufacturer	Date of Cal.	Due Date	
Electric and Magnetic field probe-analyzer	EHP-200A	Narda	Dec. 19, 2022	022 Dec. 18, 2023	
ne: 400-6611-1	40 Tel: 86-755-276	<u> 673339 </u>	55-27673332 http:	Page 5 c ://www.tct-lab.co	

Report No.: TCT230508E003

CT通测检测 TESTING CENTRE TECHNOLOGY

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A-1
 - SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

3.2. Location

Shenzhen TCT Testing Technology Co., Ltd.

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

3.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Temperature	±0.1 ℃
2	Humidity	±1.0 %
3	Spurious Emissions, Conducted	±1 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB



Report No.: TCT230508E003

4. Technical Requirements Specification in EN IEC 62311

			electric, magnetic and 00 GHz, unperturbed		s
	Frequency range	E-field strength (V/m)	H-field strength (Ajm)	B-field (μT)	Equivalent plane wave power density S _{eq} (W/m ²)
	0-1 Hz	_	3,2 × 104	4×10^{4}	_
	1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	_
	8-25 Hz	10 000	4 000/f	5 000/f	_
	0,025-0,8 kHz	250/f	4/f	5/f	_
	0,8-3 kHz	250/f	5	6,25	_
	3-150 kHz	87	5	6,25	_
	0,15-1 MHz	87	0,73/f	0,92/f	_
_imit:	1-10 MHz	87/f ^{1/2}	0,73/f	0,92/f	_
	10-400 MHz	28	0,073	0,092	2
	400-2 000 MHz	1,375 f ^{1/2}	0,0037 f ^{1/2}	0,0046 f ^{1/2}	f/200
	2-300 GHz	61	0,16	0,20	10
	Notes:				
	4. No E-field v	alue is provided	period (f in GHz). for frequencies < ple the appoving		
	4. No E-field v electric field charges will	alue is provided ls. For most peo not occur at fiel		perception of s than 25 kV/m. S	urface electric
	4. No E-field v electric field charges will causing stre	alue is provided ls. For most peo not occur at fiel	for frequencies ple the annoying d strengths less	perception of s than 25 kV/m. S ded.	urface electric
Test Setup:	4. No E-field v electric field charges will causing stre	alue is provided ls. For most peo not occur at fiel ess or annoyance E	for frequencies ple the annoying d strengths less e should be avoid E-Field & B-Field Pro	perception of s than 25 kV/m. S ded.	urface electric
Test Setup:	4. No E-field v electric field charges will causing stre	alue is provided s. For most peo not occur at fiel ass or annoyance tess or annoyanc	for frequencies - ple the annoying d strengths less <u>e should be avoid</u> E-Field & B-Field Pro	perception of s than 25 kV/m. S ded. from all sid 10cm meas	urface electric Spark discharge
Test Setup:	4. No E-field v electric field charges will causing stree B B C Note: Measure top of the prin	alue is provided s. For most peo not occur at fiel ass or annoyance tess or annoyanc	Field & B Field Pro	perception of s than 25 kV/m. S ded. from all sid 10cm meas ne device.	urface electric Spark discharge
Test Setup:	4. No E-field v electric field charges will causing stree B B C Note: Measure top of the prin center of the 1. The RF ex	alue is provided s. For most peo not occur at fiel ass or annoyance tess or annoyanc	E-Field & B-Field Pro suld be made bair, with the the edge of the was performed	perception of s than 25 kV/m. S ded. from all sid 10cm meas ne device.	es and the ured from t
	 A. No E-field v electric field charges will causing street B B C Note: Measure top of the print center of the The RF ex 2. The measure 	alue is provided s. For most peo not occur at fiel ess or annoyance tess	E-Field & B-Field Pro Field & B-Field Pro E-Field & B-Field Pro Control of the control of	perception of s than 25 kV/m. S ded. from all sid 10cm meas ne device. ed in anech ed at test dis	es and the ured from the ured from the
	 A. No E-field v electric field charges will causing street B B C Note: Measure top of the print center of the The RF ex 2. The measure 	alue is provided s. For most peo not occur at fiel ess or annoyance tess	E-Field & B-Field Pro suld be made bair, with the the edge of the was performed	perception of s than 25 kV/m. S ded. from all sid 10cm meas ne device. ed in anech ed at test dis	es and the ured from the ured from the
Test Setup:	 A. No E-field v electric field charges will causing stree Turn Table B C Note: Measure top of the print center of the The RF ex 2. The measure (10cm) white 	alue is provided s. For most peo not occur at fiel ess or annoyance tess	E-Field & B-Field Pro E-Field & B-Field Pro Culd be made bair, with the the edge of the was performed be was place en the edge of	perception of s than 25 kV/m. S ded. from all sid 10cm meas ne device. ed in anech ed at test dis	es and the ured from the ured from the

		npared wit	h limit as so C, D, E) we		asurement	eport No.: TCT2 of each		
Test Instrument	:: Ref	Refer to section 2.3 for details						
Test Mode:		Refer to section 2.1 for details					(LC	
Test Results:	PA	ss						

4.1.1. Test Data

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency Range (KHz)	Test Position D (A/m)	Test Position B (A/m)	Test Position E (A/m)	Test Position A (A/m)	Test Position C (A/m)	Result (A/m)	Limits Test (A/m)
137.60	0.07	0.06	0.09	0.08	0.07	0.139	5

H = $\sqrt{D^2 + E^2 + A^2} = \sqrt{0.07^2 + 0.09^2 + 0.08^2}$ A/m= 0.139A/m Limit =5A/m

Note: All test modes have been tested and only record the worst result.

*****END OF REPORT*****

Report No.: TCT230508E003

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