APPLICATION FOR LVD
On Behalf of

Shenzhen Shengshuo Technology Co., Ltd.

Prepared For :	**Shenzhen Shengshuo Technology Co., Ltd.**
Address :	5/F Floor, Building A, Rui-xing Technology Park, Sanhe No.1 village, Dalang street, Longhua District, Shenzhen, 518000 P.R.China
Trademark:	SESOO
Product Name:	**Touch switch series**
Model :	**SR-UK-Y801** **SR-UK-Y802,SR-UK-Y803,SR-UK-Y804,SR-UK-C816,SR-UK-D801,SR-UK-D802, SR-UK-D803,SR-UK-D804,SR-UK-T815,SR-UK-S801,SR-UK-S802,SR-UK-S803, SR-UK-S804,SR-EU-Y601,SR-EU-Y602,SR-EU-Y603,SR-EU-Y604,SR-EU-C616, SR-EU-D601,SR-EU-D602,SR-EU-D603,SR-EU-D604,SR-EU-T615,SR-EU-S601, SR-EU-S602,SR-EU-S603,SR-EU-S604,SR-US-Y901,SR-US-Y902,SR-US-Y903, SR-US-Y904,SR-US-C916,SR-US-D901,SR-US-D902,SR-US-D903,SR-US-D904, SR-US-T915,SR-US-S901,SR-US-S902,SR-US-S903,SR-US-S904.**
Prepared By : Address :	**Shenzhen BCTC Technology Co., Ltd.** A. Floor 3, 44 Building, Tanglang Industrial Park B, Taoyuan Street, Nanshan District, Shenzhen, China
Test Date:	**Mar. 24 - Mar. 31, 2015**
Date of Report :	**Mar. 31, 2015**
Report No.:	**BCTC-150303050**

LVD Report

EN60947-5-1

Low-voltage switchgear and controlgear
Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices

Testing laboratory …….. :	**Shenzhen BCTC Technology Co., Ltd.**
Address …….. :	A.Floor 3, 44 Building, Tanglang Industrial Park B, Taoyuan Street, Nanshan District, Shenzhen, China
Testing location …….. :	**Shenzhen BCTC Technology Co., Ltd.**
Applicant …… :	**Shenzhen Shengshuo Technology Co., Ltd.**
Address …….. :	5/F Floor, Building A, Rui-xing Technology Park, Sanhe No.1 village, Dalang street, Longhua District, Shenzhen, 518000 P.R.China
Standard …… :	EN 60947-5-1: 2004+A1:2009
Test Result …….. :	PASSED
Procedure deviation …… :	N/A.
Non-standard test method …… :	N/A.
Type of test object …….. :	**Touch switch series**
Trademark …… :	SESOO
Model/type reference …….. :	**SR-UK-Y801**
Rating …… :	**AC110-240V~, 50/60Hz, Load power: 3-Max.800W/gang, Max. 2000W total**
Manufacturer …… :	**Shenzhen Shengshuo Technology Co., Ltd.**
Address …….. :	5/F Floor, Building A, Rui-xing Technology Park, Sanhe No.1 village, Dalang street, Longhua District, Shenzhen, 518000 P.R.China
Test item particulars :	
Equipment mobility …… :	--
Operation condition …… :	Continuous
Class of equipment ……:	--
Protection against ingress of water …. :	IPX0

Name and address of the testing laboratory: **Shenzhen BCTC Technology Co., Ltd.**

A.Floor 3, 44 Building, Tanglang Industrial Park B, Taoyuan Street, Nanshan District, Shenzhen, China

Date of Test: **Mar. 24 - Mar. 31, 2015**

Prepared by(Engineer) : LittleChen

Reviewer(Quality Manager) : Sophie Lu

Approved&Authorized Signer(Manager) : Casey Wang

SHENZHEN BCTC TECHNOLOGY CO., LTD. APPROVED

General remarks:	
"(see remark #)" refers to a remark appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.	Attached with: A. photo documentation Remark:

Artwork of Marking Label

Touch switch series

Model: SR-UK-Y801

AC110-240V~, 50/60Hz, Load power: 3-Max.800W/gang,
Max. 2000W total

Shenzhen Shengshuo Technology Co., Ltd.

EN 60947-5-1			
Clause	Requirement-Test	Result-Remark	Verdict
5.2	MARKING		—
5.2.1	Data shall be perferably marked on the equipment		P
	a-manufacturer's name or trademark	Shenzhen Shengshuo Technology Co., Ltd.	P
	b-type designation or serial number	SR-UK-Y801	P
	Data shall be included on the nameplate, or on the equipment, or in the manufacture's published literature:		P
	c-number of this standard		P
	d-rated operational voltages	AC110-240V	P
	e-utilization category and rated operational currents, at the rated operational voltages of the control circuit device		P
	f-rated insulation voltage	240V~	P
	g-rated impulse withstand voltage	2500V~	P
	h-switching overvoltages, if applicable		P
	i-IP code, in case of enclosed control circuit device	IPX0	P
	j-pollution degree		P
	k-type and maximum ratings of short-circuit protective device		N
	l-conditional short-circuit current if less than 1000A		N
	m-suitability for isolation, where applicable, with the symbol 07-13-06 of IEC 60617-7		N
7.1	CONSTRUCTION		
7.1.1	Materials		P
7.1.2	Current-carrying parts and their connection		P
	No contact pressure through insulation materials		P
7.1.3	Clearances		P
	Clause 7.1.3 of IEC 60947 applies		P
	Rated impulse withstand voltage		P
	Case B(mm)		—
	Case A(mm)		—
	Creepage distances		P
	Pollution degree	3	P
	Comparative tracking index(V)		P

EN 60947-5-1			
Clause	Requirement-Test	Result-Remark	Verdict
	Material group		P
	Rated insulation voltage Ui(V)		P
	Minimum creepage distances(mm)		P
	Measured creepage distances(mm)		P
	In case Uimp is not indicated,clearances and creepage distances in according witha Annex D		N
7.1.4	Actuator		N
7.1.4.1	Insulation		N
7.1.4.2	Direction		N
7.1.4.3	Actuation force(or moment)		N
7.1.4.4	Limitation of rotation(of rotary switch)		N
7.1.4.5	Emergency stop		N
7.1.5	Indication of the contact position		N
7.1.5.1	Indication means		N
7.1.5.2	Indication by the actuator		N
7.1.6	Conditions for control switches suitable for isolation		N
7.1.7	Class II control circuit devices		N
	Not provided with means for protective earthing and insulated by encapsulation.		N
7.1.8	Requirements for control devices with integrally connected cables		N
7.1.11	Degree of protection of enclosed equipment		P
	Degree of protection	IPX0	P
	Test for characteristic		N
	Test for first numeral		N
	Test for second characteristic		N

8.2.1.2.1	Electromagnetic contactors and starters		N
	rated control supply voltage Us(V)		—
	fequency(Hz)		—
	dclared ambient temperature (>40℃)for 100％ Us		—
	Limits of close satisfactority at any value between 85％and 110％of rated control supply voltage Us		N
	Limits of drop out and open fully are:75％to 20％for a.c.and 75％to 10％for d.c		N

EN 60947-5-1			
Clause	Requirement-Test	Result-Remark	Verdict
	Ambient temperature(-5℃)for 100％Us		—
	Limits of close satisfactority at any value between 85％and 110％of rated control supply voltage Us		N
	Limits of drop out and open fully are:75％to 20％for a.c.and 75％to 10％for d.c		N
8.2.1.2.2	Contactors and starters with electronically controlled electromagnet		N
	Rated control supply voltage Us (V)		—
	Frequency(Hz)		—
	dclared ambient temperature (>40℃)for 100％ Us		—
	Limits of close satisfactority at any value between 85％and 110％of rated control supply voltage Us		N
	Limits of drop out and open fully are:75％to 20％for a.c.and 75％to 10％for d.c		N
	Ambient temperature(-5℃)for 100％Us		—
	Limits of close satisfactority at any value between 85％and 110％of rated control supply voltage Us		N
	Limits of drop out and open fully are:75％to 20％for a.c.and 75％to 10％for d.c		N
8.2.1.2.3	Electro-pneumatic contactors and starters		N
	Rated air supply pressure (Bar)		—
	Declared ambient temperature (>40℃)for 100％ of the rated air supply pressure (Bar)		—
	Limits of close satisfactority at any value between 85％and 110％of rated air supply pressure (Bar)		N
	Limits of drop out and open fully are:75％to 10％of the rated air supply pressure (Bar)		N
	Ambient temperature(-5℃)for 100％of the rated air supply pressure (Bar)		—
	Limits of close satisfactority at any value between 85％and 110％of rated air supply pressure (Bar)		N
	Limits of drop out and open fully are:75％to 10％of the rated air supply pressure (Bar)		N

8.3.1.a	TEST SEQUENCEL	—
	-operating limits of contactor relays (8.3.3.2),if applicable	—
	-temperature rise (Clause 8.3.3.3.)	—
	-dielectric properties (Clause 8.3.3.4)	—
	-mechanical properties of terminals (8.2.4 of IEC 60947-1)	—

8.3.3.2	Operating limits of contactor relays	—

EN 60947-5-1			
Clause	Requirement-Test	Result-Remark	Verdict
8.3.3.2.1	Power-operated equipmet:		N
8.3.3.3	Temperature rise		P
	Ambient temperatuer 10-40 C		P
	Test enclosure W x H x D (mm x mm x mm)		P
	Material of enclosure		P
	No-contacts, test conditions		P
	-rated operational current le (A)		—
	-cable cross-section (mm^2)		—
	-temperature rise of NC terminals (K)	65K	P
	NC-contacts,test conditions:		N
	-rated operational current le (A)		—
	-cable cross-section (mm^2)		—
	-temperature rise of NC terminals (K)		—
	Coils and electromagners, test conditions:		N
	-rated control supply voltage Us(V)		—
	-Class of insulating material		—
	-temperature rise of coil and electromagners (K)		—
8.3.3.4	Test of dielectric properties, impulse withstand voltage (Uimp indicated):		P
	-verification by measurement of clearances instead of testing		P
	-rated impulse withstand voltage (kV)	2500V	P
	-test Uimp auxiliary circuyts (kV)		P
	Test of dielectric properties, dielectric withstand votage (Uimp not indicated):		N
	-rated insulation voltage (V)		N
	-control and auxitiary circuits, test voltage (V) for 5 sec		N
8.2.4	Mechanical properties of terminals		P
8.2.4.2	Mechanical strength of terminals		P
	Maximum cross-sectional area of conductor (mm^2)		N
	Diameter of thread (mm)		N
	Torque (Nm)		N
	5 times on 2 separate clamping units		N

EN 60947-5-1			
Clause	Requirement-Test	Result-Remark	Verdict
8.2.4.3	Testing for damage to and accidental loosening of conductor(flexion test)		N
	Conductor of the largest cross-sectional area(mm^2)		N
	Number of conductor of the largest cross section		N
	Diameter of bushing hole(mm)		N
	Height between the equipment and the platen(mm)		N
	Mass at the conductor(s)(s)(kg)		N
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		N
8.2.4.4	Pull-out test		N
	Force(N).....:		N
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		N
8.2.4.3	Conductor of the largest cross-sectional area(mm^2)		N
	Number of conductor of the smallest cross section, number of conductor of the largest cross sectional	2	N
	Diameter of bushing hole(mm)		N
	Height between the equipment and the platen(mm)		N
	Mass at the conductor(s)(s)(kg)		N
	135 continuous revolutions: the conductor shall neither slip out of the terminal nor break near the clamping unit		N
	Force (N)		N
	1 min, the conductor shall neither slip out of the terminal nor break near the clamping unit		N
7.1.7.2	Connecting capacity		P
	Type of conductors		P
	Minimum cross-sectional area of conductor (mm^2)		P
	Minimum cross-sectional area of conductor (mm^2		P
	Number of conductors simultaneously connectable to the terminal		P
7.1.7.3	connection		P
	Terminals for connection to external conductors shall be read		P

8.3.3.5.	TEST SEQUENCE		P
8.3.3.5.2	Making and breaking capacities of seitching elements under normal contact polarity		P
	Contact element (figure/form)		—

EN 60947-5-1			
Clause	Requirement-Test	Result-Remark	Verdict
	Contact polarity		—
	Untilization category.....:		—
	Rated operational voitage Ue (V).....:		—
	Rated operational current Ie (A) or power (kW)....:		—
	-test voltage U/Ue = 1,1 (V).....:		—
	-power factor/time constant.....:		—
	-make operations: test current I/Ie (A).....:		—
	-break operations: test current I/Ie (A).....:		—
	-a.c. test: Inductor shunted by a resistor taking 3% of the total power consumed -d.c. test: test current increase from zero to steady-state value within limits of figure 9		—
	-on-time (ms).....:		—
	-operating cycles per minute.....:		—
	-number of operating cycles.....:		P
	-test voltage U/Ue = 1,0 (V).....:		P
	-power factor/time constant.....:		P
	-make operations: test current I/Ie (A).....:		P
	-break operations: test current I/Ie (A).....:		P
	Behaviour and condition during and after the test:		P
	-no electrical or mechanical failures		P
	-no contact welding or prolonged arcing		P
	-no blowing of the fusible element in the earth circuit		N
	Dielectric verification:		P
	Dielectric test voltage (V) 2 xUe with min.of 1000V		P

	TEST SEQUENCE		P
8.3.4	Performance under conditional short-circuit current		P
	contact element(figure / form)		—
	contact polarity		—
	type of SCPD.....:		—
	ratings of SCPD.....:		—

EN 60947-5-1			
Clause	Requirement-Test	Result-Remark	Verdict
	prospective current (min-1kA).....:		—
	test voltage (V)U/Ue=1.1(V).....:		—
	r.m.s test current obtained(kA).....:		—
	power factor (max. 0.7)		—
	first CO operation by closing the separate making switch: test (Ip/I^2dt(A/A^2s).....:		—
	time interval between test (min. 3min).....:		—
	second CO operation by closing the separate making switch: test (Ip/I^2dt(A/A^2s).....:		—
	time interval between test (min. 3min).....:		—
	third making operation to closed switching elements: test I^2dta (A^2s).....:		—
	Behaviour of the equipment during the test:		—
	switching elements open by the normal actuating system		P
	Dielectric verifaication:		P
	dielectric test voltage (V)2xUe with min. of 1000V:		P

EN 60947-5-1			
Clause	Requirement-Test	Result-Remark	Verdict

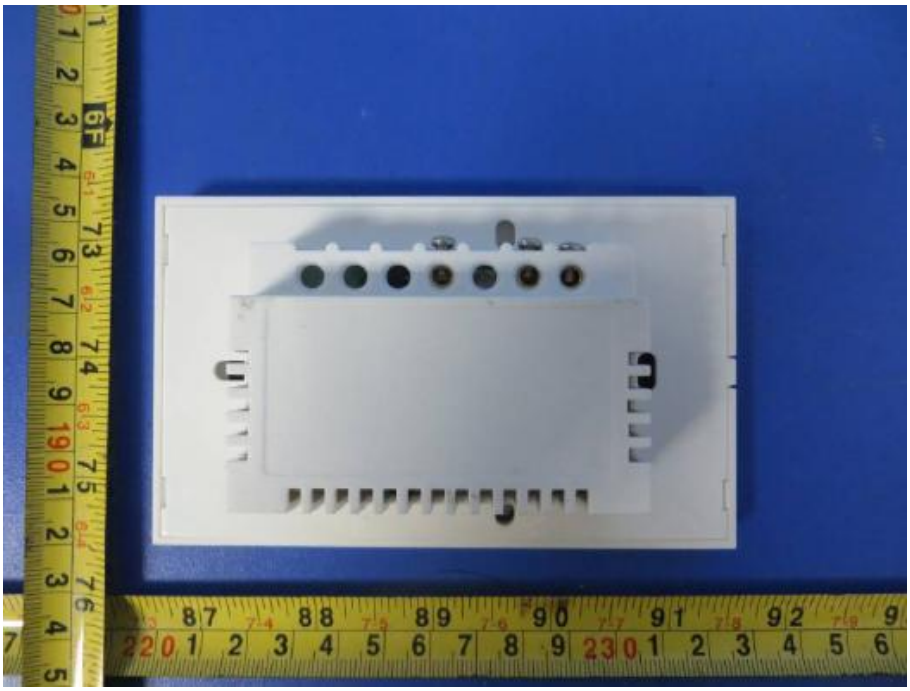
	TABLE: temperature rise measurements			
	temperature rise dT of part:		dT (K)	required dT (K)
	SR-UK-Y801			
	C1	--	52.3	80
	PCB near U1	--	50.7	105
	Plastic Enclosure outside	--	20.8	70
	Plastic Enclosure inside	--	30.7	105
	Terminal blocks	--	30.5	65

ANNEX A:

Photo-documentation

EUT Photo 1

EUT Photo 2



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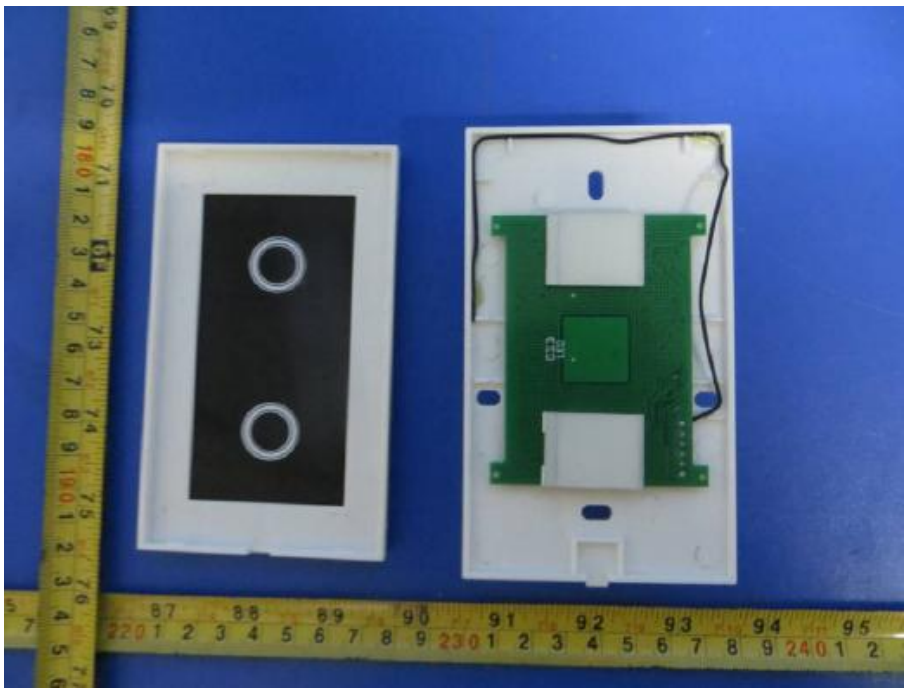

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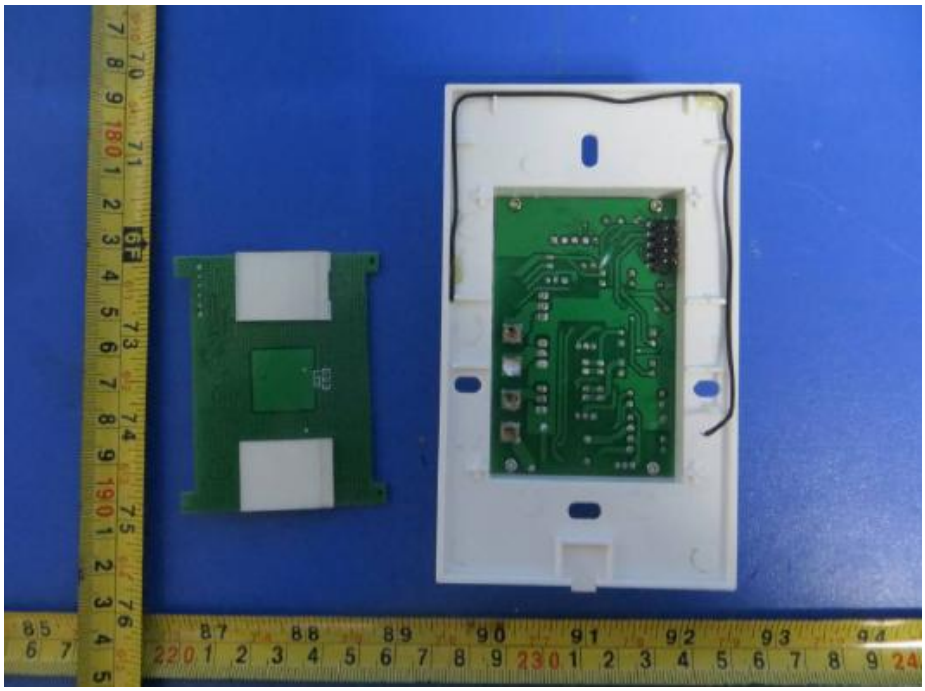

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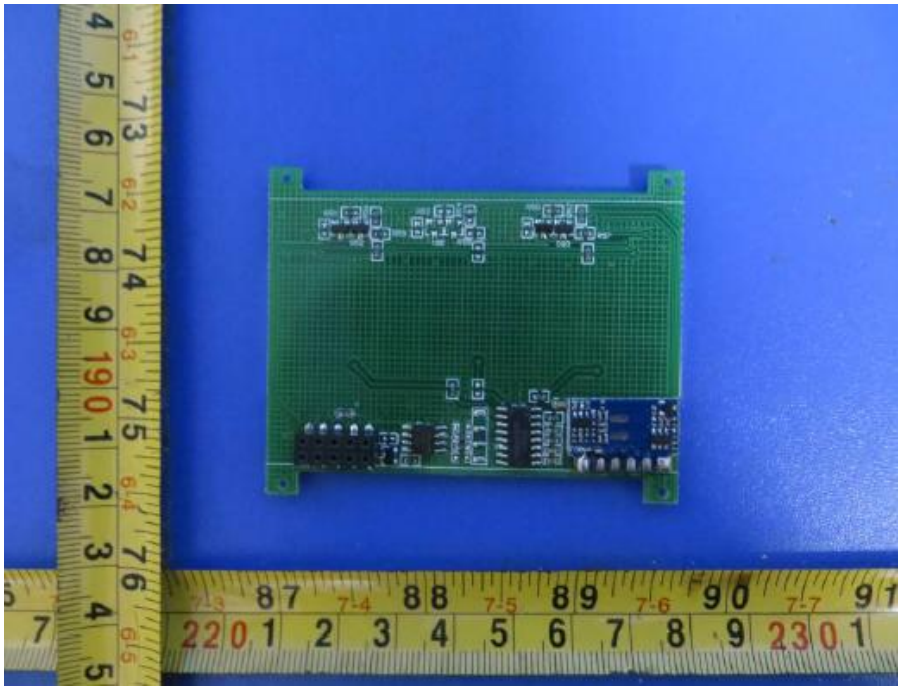

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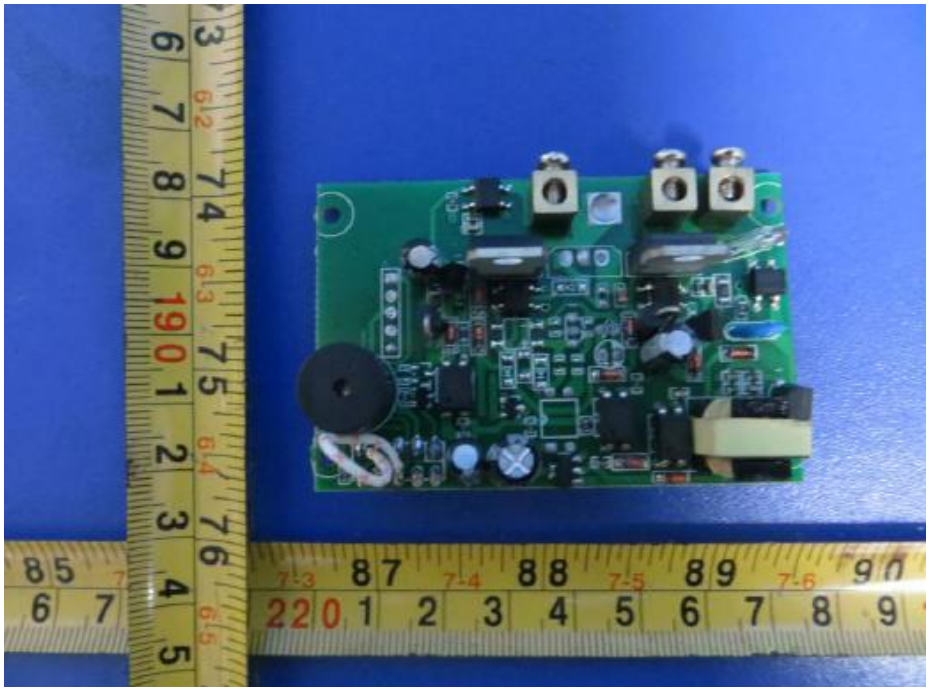

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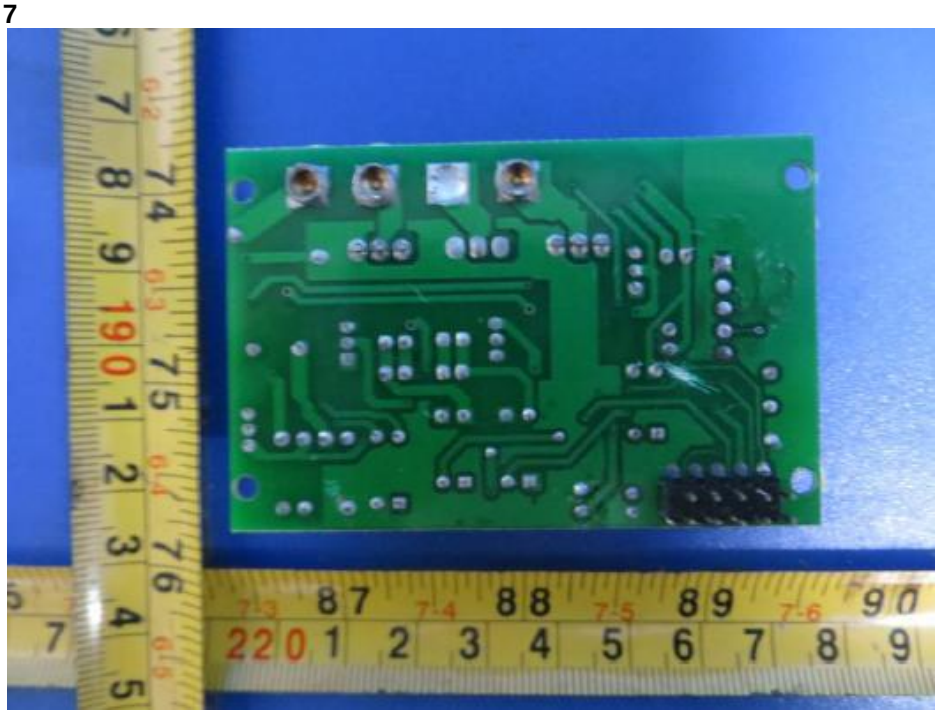
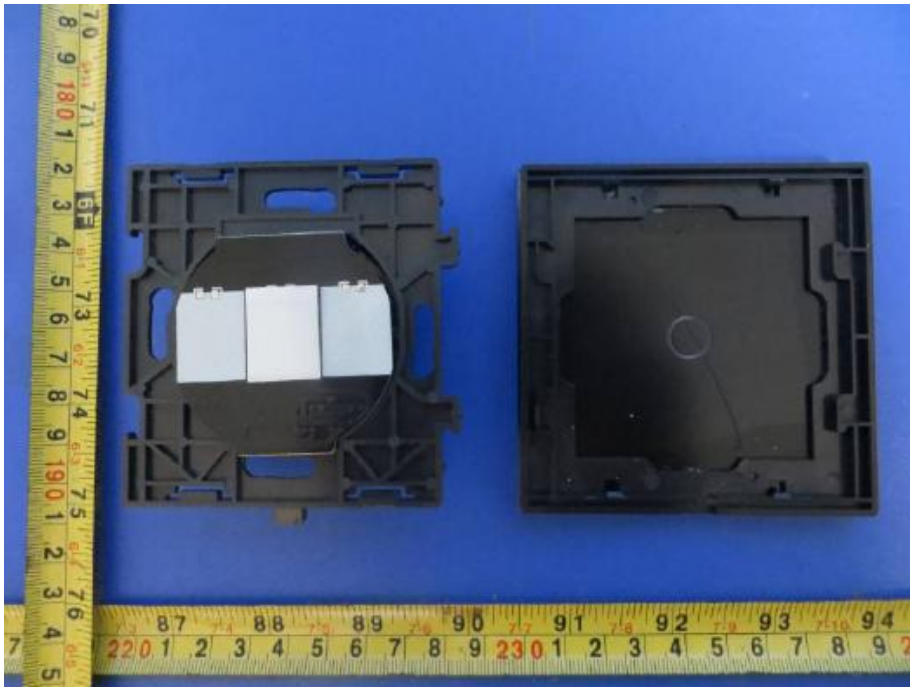


EUT Photo 8

EUT Photo 9

EUT Photo 10



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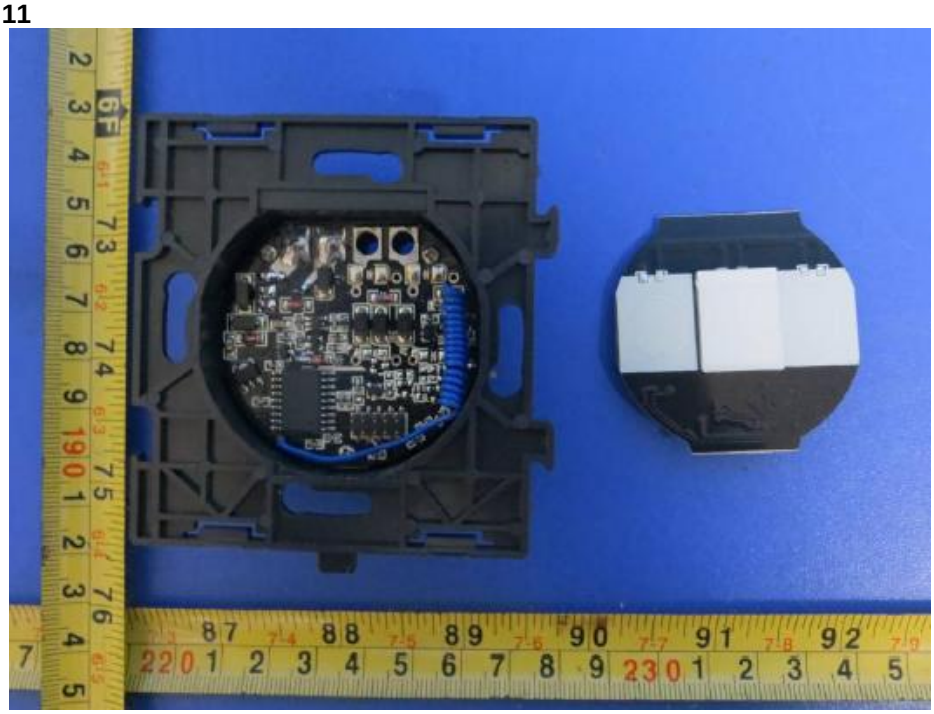

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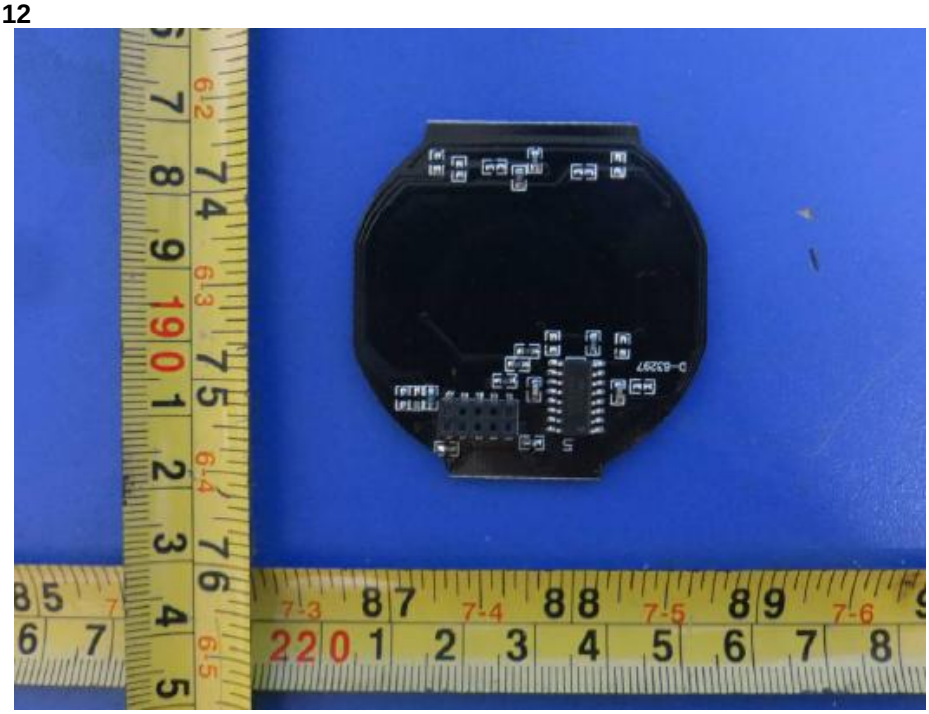

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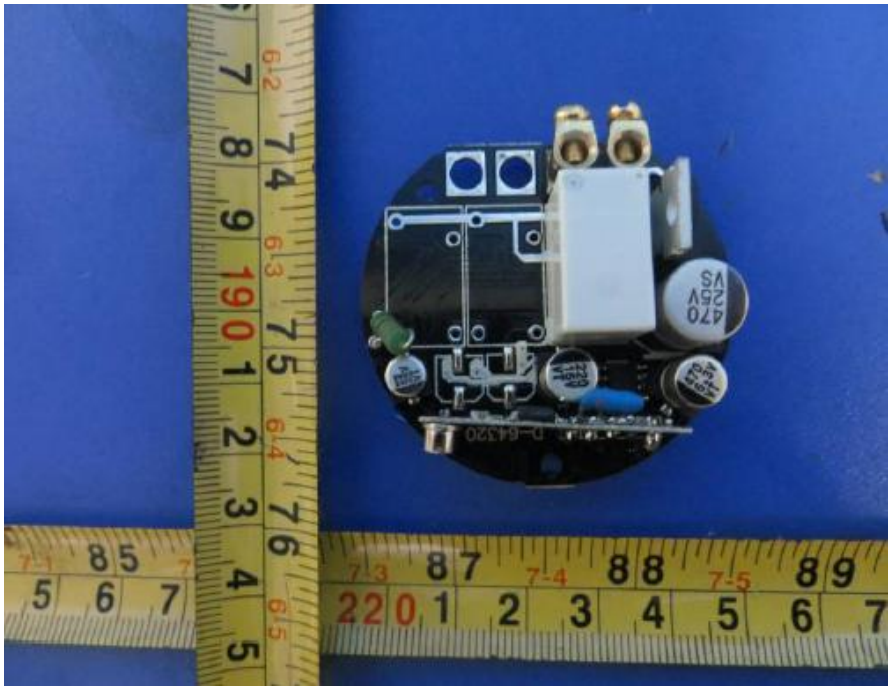

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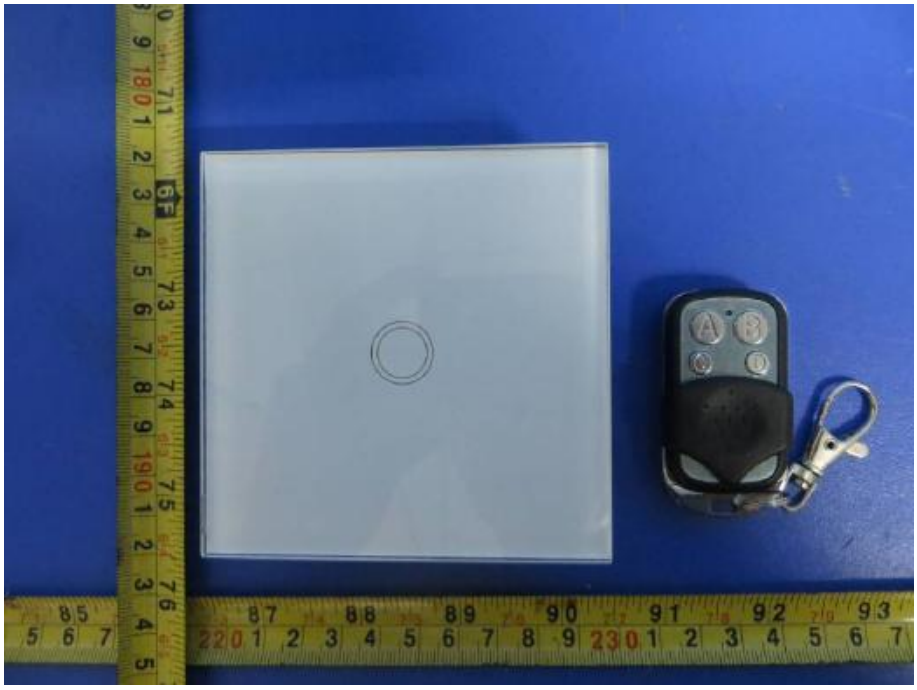
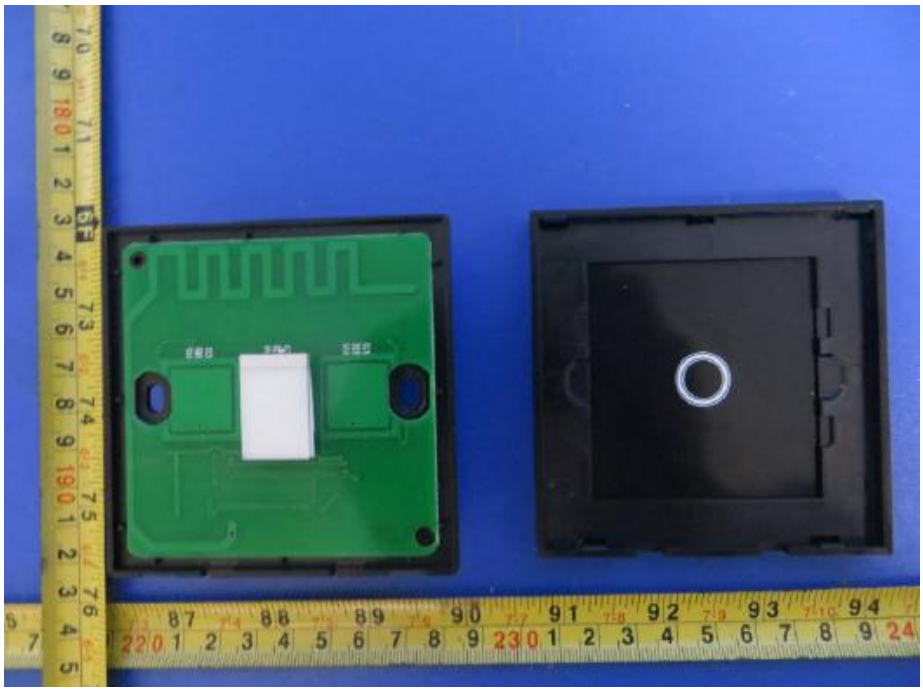


EUT Photo 15

EUT Photo 16



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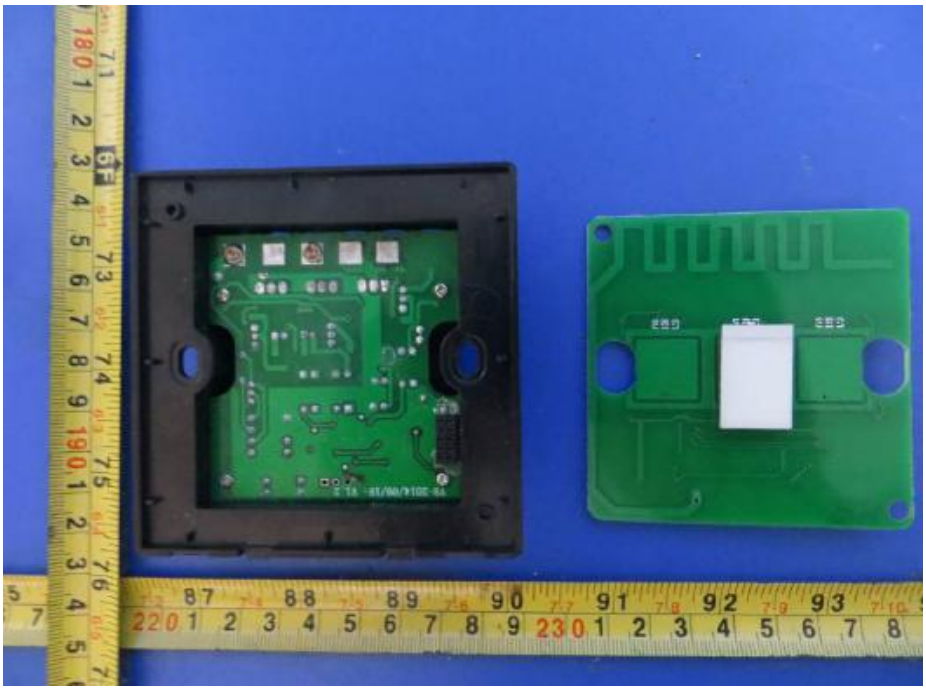

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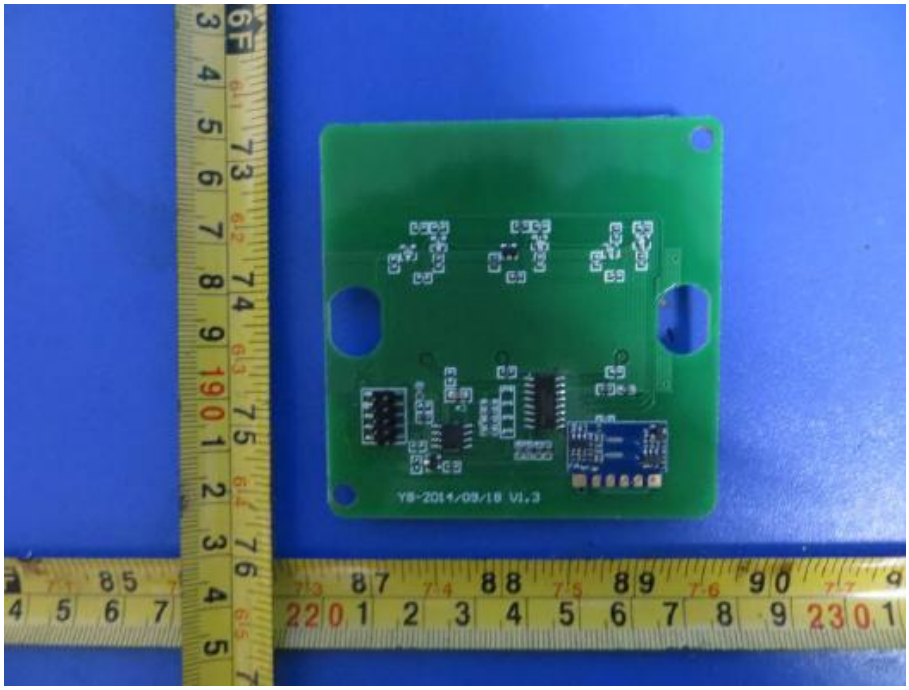

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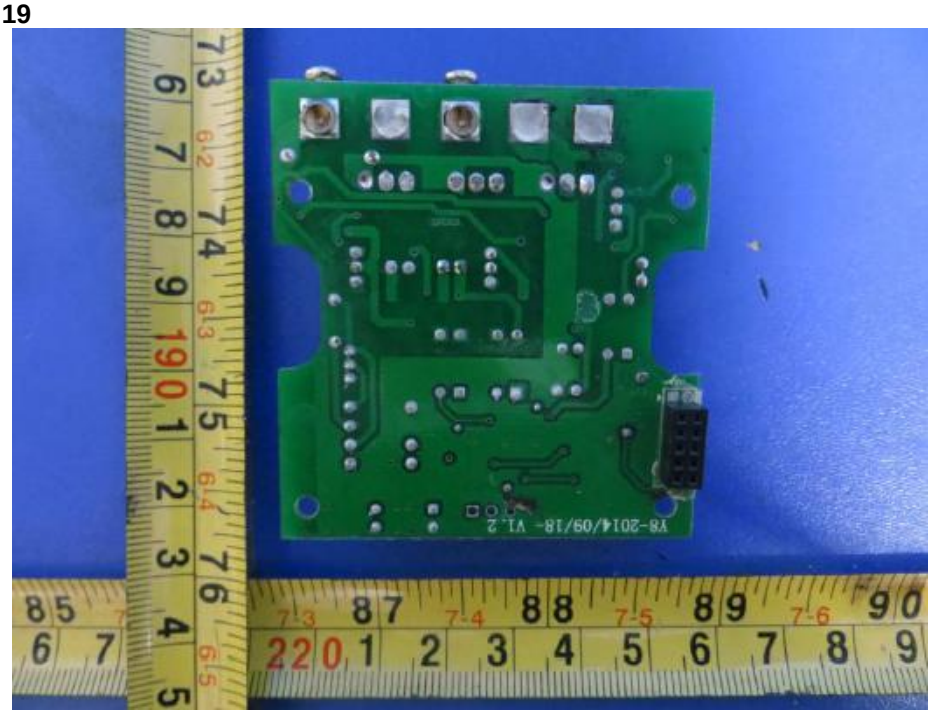

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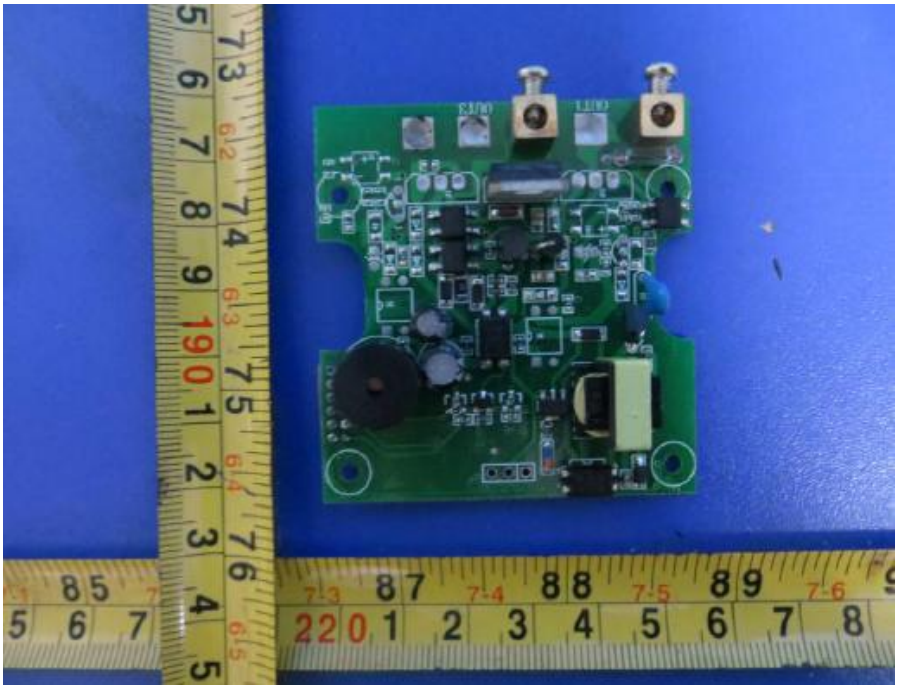

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