



TEST REPORT	
UL 1431	
Personal Hygiene and Health Care Appliances	
Report Number.....:	PTC26061815302S-UL01
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Manufacturer's name.....:	Guangdong ShangWei Technology Co., Ltd.
Address.....:	South of Lincuo Garden, Guxiang Industrial, Chaozhou City, Guangdong Province, China
Test specification:	
Standard.....:	UL1431:2011Ed.3+R:Mar 13, 2025
Test procedure.....:	PTC
Non-standard test method.....:	N/A
Test item description:	Smart Toilet
Trade Mark.....:	N/A
Model/Type reference.....:	OPT05
Ratings.....:	120V~, 60Hz, 220W
General disclaimer:	
This report is only for applicant use. Any copying this report to/for any other person or entity, and use our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.	



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Copy of marking plate:**The artwork below may be only a draft.**

Smart Toilet
Model: OPT05
Input: 120V~, 60Hz, 220W
Production Date: YYWW
Guangdong ShangWei Technology Co., Ltd.
South of Lincuo Garden, Guxiang Industrial, Chaozhou City,
Guangdong Province, China
Made in China

Notes:

- The above markings are the minimum requirements required by the safety standard as a reference marking label. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.
- Date code: YYWW: YY represents of year of manufacture, WW represents month, marked on label.

Possible test case verdicts:

- test case does not apply to the test object.....: N/A
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing.....**Date of receipt of test item.....: 2026-06-24****Date (s) of performance of tests.....: 2026-06-24 to 2026-07-23**

Name and address of factory (ies).....: Guangdong ShangWei Technology Co., Ltd.
South of Lincuo Garden, Guxiang Industrial,
Chaozhou City, Guangdong Province, China

General product information:

1.The appliance is intended for household and indoor use only.



UL 1431			
Clause	Requirement + Test	Result - Remark	Verdict

List of test items:

Clause	Performance	Required	Remark
45	Operational Test	Y	P
46	Leakage Current Test	Y	P
47	Leakage Current Following Humidity Conditioning Test	Y	P
48	Starting Current Test	Y	P
49	Input Test	Y	P
50	Temperature Test	Y	P
51	Dielectric Voltage Withstand Test	Y	P
53	Grounding Impedance Test	Y	P
54	Abnormal Operation Tests	Y	P
57	Dispenser Leakage Test	Y	P
58	Cleaning Test	Y	P
59	Thermostats Test - Overload	Y	P
61	Strain Relief Test	Y	P
Engineering Note: Standard for Personal Hygiene and Health Care Appliances (UL 1431)			

Remark: Y – Test required; N – Test not required; P – Pass; F – Fail; N/A – Not applicable

**UL 1431****Operational Test****METHOD:**

An as-received sample was set up or installed in accordance with the manufacturer's instructions. The samples was operated in - accordance with the manufacturer's instruction with respect to – the intended uses of the product, including maintenance and cleaning; and with all accessories recommended by the manufacturer for use with the product and lack of such maintenance and cleaning. The product was manipulated as it would be in actual use. The product was operated for a sufficient length of time or through a sufficient number of cycles so that all reasonably foreseeable complications were revealed.

RESULT:

There (was / was no) risk of fire, electric shock, or injury to persons when operated as intended.

CONCLUSION:

☐ Test result: Fail, fail comment:

☐ Sample revision record:

☒ Test result: Pass. The results complied with the requirements

UL 1431

Leakage Current Test

METHOD:

One "as received sample was placed on an insulated surface and was connected to a ___120___ V, ___60___ Hz source of supply. Leakage currents to earth ground were measured from all exposed conductive surface of the unit by a meter having an input impedance of 1500 ohm resistive shunted by a capacitance of 0.15uF. For enclosure surface other than metal, the leakage current was measured using a metal foil with an area of 10x20cm in contact with the surface.

The test sequence was as follows:

- With switch S1 open, the appliance was connected to the measuring circuit. Leakage current was measured using both positions of switch S2. (**S1 - OFF, S2 - P1 / S1 - OFF, S2 - P2**)
- Switch S1 was then closed, energizing the appliance, and within a period of 5 second, the leakage current was measured using both positions of switch S2, and with the appliance operated at maximum heat setting of controls. (**S1 - ON, S2 - P1 / S1 - ON, S2 - P2**)
- Leakage current was monitor until thermal stabilization under the maximum heat condition. Both positions of switch S2 were used.
- For the appliance employs a single pole switch, monitoring of leakage was continued until the leakage current stabilized or decreased after the appliance was turn off.

The leakage current of a cord-connected appliance rated for a nominal 120V or 240V supply shall not be more than:

- 0.5mA**, and
- 0.75mA** for a grounded (3-wire) permanently connected appliance, or a cord connected appliance that is intended to be fastened in place or located in a dedicated space.

RESULT:

Condition	S1	S2	Measured maximum leakage current (mA)
a. -Unit ON	OFF	P1	<0.05
	OFF	P2	<0.05
b.-Unit ON(0-5seconds)	ON	P1	<0.05
	ON	P2	<0.05
c. -Unit ON (Thermal stabilization)	ON	P1	<0.05
	ON	P2	<0.05
d. -Unit OFF (Leakage current stabilized or decreased)	ON	P1	<0.05
	ON	P2	<0.05

CONCLUSION:

[] Test result: Fail, fail comment:

[] Sample revision record:

[√] Test result: Pass. The measured power input was within the limitation.

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Leakage Current Following Humidity Conditioning Test

METHOD:

A sample of the appliance that had been preheated to a temperature just above 34°C was contained in a chamber having a relative humidity of 88±2 percent at a temperature of 32±2°C for 48 hours.

Following the conditioning, while still in the chamber, the sample was tested unenergized as described in 43.6(a). Immediately after removal from the chamber, the sample was energized and tested as described in 43.6 (b) and (c). The test was discontinued when the leakage current stabilized or decreased.

The leakage current of a cord-connected appliance rated for a nominal 120V or 240V supply shall not be more than:

- a) **0.5mA**, and
- b) **0.75mA** for a grounded (3-wire) permanently connected appliance, or a cord connected appliance that is intended to be fastened in place or located in a dedicated space.

RESULT:

Condition	S1	S2	Measured maximum leakage current (mA)
a. –Unit ON	OFF OFF	P1 P2	<0.05 <0.05
b. –Unit ON(0-5seconds)	ON ON	P1 P2	<0.05 <0.05
c. –Unit ON (Thermal stabilization)	ON ON	P1 P2	<0.05 <0.05
d. –Unit OFF (Leakage current stabilized or decreased)	ON ON	P1 P2	<0.05 <0.05

CONCLUSION:

[] Test result: Fail, fail comment:

[] Sample revision record:

[√] Test result: Pass. The measured power input was within the limitation.

**UL 1431****Starting Current Test****METHOD:**

The sample was connected to a _____ 120 _____ volt, 60Hz source of supply protected by a _____ 15 _____ ampere, non-time delay fuse. The product was started three times, with the product at room temperature at the beginning of normal operation - the beginning of the normal operation cycle, in the case of an automatic product - and the motor was allowed to come to rest between successive starts.

A switch or other device that controls a solenoid, relay coil, or the like and had not been tested and shown to be acceptable was subjected to an overload test consisting of 50 cycles of operation. The sample was connected to a grounded circuit of rated frequency and 110 percent of maximum rated voltage. The load on the device under test was the same as that which it was intended to control in intended service. During the test, exposed metal parts of the product were connected to ground through a 3-A fuse, and the connection was such that any single-pole, current-rupturing device was located in the ungrounded conductor of the supply circuit.

RESULT:

- ☒ For each start, the 15 ampere fuse remained intact.
- ☐ The ampere fuse opened on the (first / second /third)start.
- ☐ The switch or other control device (could /could not) withstand the overload test.

CONCLUSION:

- ☐ Test result: Fail, fail comment:
- ☐ Sample revision record:
- ☒ Test result: Pass, after test, complied with the requirements.

**UL 1431****Input Test****METHOD:**

The power input was measured with the unit at normal operating temperature under full-load conditions and while connected to the supply circuit of the marked voltage rating, or the highest voltage of the applicable range of voltages specified.

RESULT:

Operating Condition	Supply Voltage (V)	Current (A)	Wattage (W)	Marked Rating (W)	Wattage Limit (W)
Max load	120	1.66	192.8	220	242

The measured power input (was / was not) more than 110 percent of its marked rating.

CONCLUSION:

☐ Test result: Fail, fail comment:

☐ Sample revision record:

☒ Test result: Pass. These results complied with the requirements

**UL 1431****Temperature Test****METHOD:**

The sample was connected to a 120 volt, a.c., 60 Hz supply and operated at maximum normal load. Using thermocouples and a hybrid recorder, temperature were monitored on the components itemized on the next page.

[] Denture Cleaners

The product is to be operated through four operation cycles, each of 15 minutes duration, with a 5 minute off period between successive operations.

[] Oral Irrigation appliances

The product is to be operated through four cycles, emptying the reservoir each time at a reasonably strong pressure setting to result in a 4 minute operating on period, with a 5 minute off period between successive operations. A lesser on time may be employed if the reservoir empties during this time at the lowest pressure setting of the product. Tepid water, approximately 37°C (100°F) is to be employed for this test.

[] Charger units for battery-operated toothbrushes

The temperature test is to be conducted with the output of the charger unit short-circuited and operation continued until constant temperatures have been attained.

[] Toothbrushes

A cord-connected product is to be operated through six operational cycles, each of 3 minutes duration, with a 1 minute of period between successive operations.

RESULT:

The temperature of a surface that may be contacted by the user (~~attained~~ / did not attain) a temperature more than the maximum acceptable value as specified.

The sample (~~attained~~ / did not attain) a temperature at any point high enough to constitute a risk of fire or to damage any material employed in the appliance.

The sample (~~showed~~ / did not show) greater temperature rises at certain specified points itemized on the next page.

A thermal- or overload-protective device (~~opened~~ / did not open) the circuit during the temperature test.

CONCLUSION:

These results (complied / ~~did not comply~~) with the requirements.

37 Surface Temperatures

37.1 During the normal temperature test described in Temperature Test, Section 50, the temperature of a surface that may be contacted by the user shall not be more than the maximum acceptable value specified in Table 37.1.

37.2

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All values for temperatures specified in Table 37.1 are based on a 25°C (77°F) ambient temperature; however, tests may be conducted at any ambient temperature within the range of 10 – 40°C(50 – 104°F) and corrected to 25°C (77°F). See 50.1.3 – 50.1.8.

Table 37.1
Surface temperatures

Location	Composition of surface ^a	
	Metallic	Nonmetallic
A handle or knob that is grasped for lifting, carrying or holding	50°C (122°F)	60°C (140°F)
A handle or knob that is contacted but does not involve lifting, carrying, or holding and other surfaces subject to contact in operation and user maintenance	60°C (140°F)	85°C (185°F)
A surface subject to casual contact	70° (158°F)	95°C (203°F)
^a A handle, knob or the like made of a material other than metal, that is plated or clad with metal having a thickness of 0.005 inch (0.13 mm) or less is evaluated as a nonmetallic part.		

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Input: 120 V, 60 Hz, 1.66A, 192.8 W

Load: Unit was operated continuously until thermal equilibrium.

Ch.	Location	Temp. Rise (°C)	Rise Limit (°C)
101	Plug	11.7	Ref.
102	Power cord	6.9	105
103	PCB	22.4	130
104	Varistor	11.8	85
105	X capacitor	13.6	100
106	Transformer	18.9	85
107	Y capacitor	11.7	125
108	Optocoupler	14.0	100
109	PCB box	15.2	Ref.
110	Internal wire	23.4	200
111	Water valve	6.1	65
112	Pump	10.5	65
113	Motor	12.8	65
114	DC fan	10.1	65
115	Thermostat	22.8	Ref.
116	Plastic cushion (top)	15.4	60
117	Plastic cushion (bottom)	9.7	60
118	Konb	3.1	60
119	Lid	4.2	60
120	Ceramic surface	1.8	60

CONCLUSION:

[] Test result: Fail, fail comment:

[] Sample revision record:

[√] Test result: Pass. These results complied with the requirements

**UL 1431****Dielectric Voltage-Withstand Test****METHOD:**

A 60 Hz dielectric withstand potential was applied between the points indicated below. For this test, the sample was at its maximum normal operating temperature and all switches were set so that all circuits were energized. In each case, the test potential was gradually achieved starting from zero and held at the indicated value for a period of one minute.

1. ____1000__ volts between live parts of primary circuit and dead metal parts.
2. ____ volts between primary circuit and secondary circuit.
3. ____ volts between live parts of secondary circuit and dead metal with grounded secondary of transformer disconnected.

RESULT:

☒ In each case, there was no indication of dielectric breakdown or arc-over.

☐ A dielectric breakdown between live parts of the primary circuit and dead metal parts occurred at a potential of ____ volts.

☐ A dielectric breakdown between live parts of the primary circuit and secondary circuit occurred at a potential of ____ volts.

☐ A dielectric breakdown between live parts of the secondary circuit and dead metal parts occurred at a potential of ____ volts.

CONCLUSION:

☐ Test result: Fail, fail comment:

☐ Sample revision record:

☒ Test result: Pass. These results complied with the requirements

**UL 1431****Grounding Impedance Test****METHOD:**

An appliance with a grounding means, the impedance at 60 Hz between the point of connection of the appliance grounding means, including the supply cord, and any other metal part that is required to be grounded, shall not be more than 0.1 ohm.

It was determined by measuring the voltage when a current of 25 A, derived from a 60 Hz source with a no-load voltage not exceeding 6 V, was passed between the grounding pin of the attachment plug or other grounding means and the metal part.

RESULT:

The measured no-load voltage was 0.475 V.

The impedance was 0.019 ohm(s).

The impedance between the point of connection of the appliance grounding means, including the supply cord, and any other metal part (~~exceeded~~ / did not exceed) 0.1 ohm.

CONCLUSION:

☐ Test result: Fail, fail comment:

☐ Sample revision record:

☒ Test result: Pass. The results complied with the requirements.

**UL 1431****Abnormal Operation Test**

Each abnormal test was followed by a dielectric voltage withstand test

Each test was conducted on a separate sample unless agreeable to those concerned that more than one test could be conducted on the same sample.

During each test the grounding means, if provided, was connected to ground through a 3-A nontime-delay fuse.

During the tests, the unit was draped with a double layer of cheesecloth conforming to the outline of the product.

METHOD:**Component Breakdown Test**

The components in the unit, such as diodes, resistors, transistors, capacitors, and the like, were shorted or opened, one at a time. The product was connected to the maximum test voltage and operated until ultimate conditions were observed, or for 4 hours if cycling of an automatically reset protector occurred.

RESULT:

There (was / was no) risk of fire, electric shock, or injury to persons when operated as intended.

There (was / was no) charring of cheesecloth.

The 3-A fuse (did / did not) remain intact.

The sample (did / did not) comply with Dielectric Voltage-Withstand Test.

There (was / was no) flame or molten metal emitted from the unit.

CONCLUSION:

☐ Test result: Fail, fail comment:

☐ Sample revision record:

☒ Test result: Pass. These results complied with the requirements

**UL 1431****Dispenser Leakage Test**

An appliance that employs a device for dispensing a liquid and does not provide acceptable protection of live parts, shall be subjected to the test.

METHOD:

A sample oriented in any position that may be encountered in normal use, an amount equal to 1/2 the capacity of the dispenser reservoir - but not more than one pint of a saline solution consisting of 1/2 gram of salt per liter of water was poured into the chamber or area containing any part of the dispenser.

Immediately thereafter, the sample was tightly wrapped with conductive foil so as to be in contact with all exposed surfaces, and the sample required to acceptably withstand a potential of 2500 V AC applied between the conductive foil and live parts; and maintain a leakage current of less than 0.5 mA between the foil and ground when tested in accordance with the Leakage Current Test.

RESULT:

The samples (complied / did not comply) with the requirements of Dielectric Voltage-Withstand Test.

The maximum leakage current recorded was 0.031 mA, which (complied / did not comply) with the requirements of Leakage Current Test.

CONCLUSION:

☐ Test result: Fail, fail comment:

☐ Sample revision record:

☒ Test result: Pass. These results complied with the requirements

**UL 1431****Cleaning Test****METHOD:**

Each product, or portion of a product, that is intended to be cleaned by wiping or washing shall be conditioned as outlined in 58.2 and 58.3, after which the leakage-current test described in Leakage Current Test, Section 46 shall be repeated with no increase in the previously observed leakage current values.

For products intended to be wiped clean, the outer surface of one sample is to be wiped thoroughly with a folded cheesecloth applicator saturated in the cleaning agent specified in the instruction manual. The complete wiping procedure is to be repeated until a total of 5 operations has been completed.

For products intended to be washed, one sample of the product is to be submerged to the level indicated in a liquid bath as recommended in the instruction manual. Immersion time is to be for a total of one hour, after which the product is to be removed and dried thoroughly on the outside using a soft absorbent cheesecloth pad. The immersion and drying procedure is to be repeated until a total of 5 washings and dryings have been completed.

The cheesecloth shall be bleached, running 15 – 15 yd² /lb (approximately 26 – 28 m² kg) and have what is known in the trade as a "count of 32 by 28," that is, for any square inch, 32 threads in one direction and 28 threads in the other direction (for any square centimeter, 13 threads in one direction and 11 in the other direction).

RESULT:

After test the Leakage current (was / was no) more than 0.5mA.
The sample (did / did not) comply with Dielectric Voltage-Withstand Test.

CONCLUSION:

- ☐ Test result: Fail, fail comment:
- ☐ Sample revision record:
- ☒ Test result: Pass. The results complied with the requirements.

**UL 1431****Thermostats Test – Overload****METHOD:**

59.2.1 An automatic control for temperature regulating or temperature limiting shall be capable of performing successfully for 50 cycles of operation when the product is connected to a supply circuit having a potential of 120-percent of the voltage specified in 44.2. There shall be neither electrical nor mechanical malfunction of the control, nor undue burning, pitting, or welding of the contacts.

59.2.2 In a test to determine whether an automatic control complies with the requirements in 59.2.1, the product is to be connected to a grounded supply circuit; the enclosure of the product, if of metal, is to be connected to ground through a 3-A fuse; and the control, if single-pole, is to be connected in an ungrounded conductor of the circuit. The control is to be operated at the rate of ten cycles per minute, except that a faster rate of operation may be employed if agreeable to all concerned. The performance is unacceptable if the fuse in the grounding connection opens during the test.

RESULT:

☒ The 3 ampere fuse remained intact.

There (was / was not) neither electrical nor mechanical malfunction of the control, nor undue burning, pitting, or welding of the contacts.

CONCLUSION:

☐ Test result: Fail, fail comment:

☐ Sample revision record:

☒ Test result: Pass. The results complied with the requirements.

**UL 1431****Strain Relief Test****METHOD:****[☒] Supply cord test**

A pull of 35 lbf (156 N) applied to the attached power cord for one minute without displacement, with the connections within the appliance disconnected. The specified force was applied to the cord and so supported by the appliance that the strain relief means will be stressed from any angle that the construction of the appliance permits.

[☐] Output or interconnecting cable strain relief test

A pull of 20 lbf (89 N) applied to the output cord or interconnecting cable for one minute, without displacement or breakage of the cord, or cable, or deformation of its anchoring surface. The specified force was applied to the cord and so supported by the appliance that the strain relief means will be stressed from the most severe angle that the construction of the appliance permits.

RESULT:

There (~~was~~ / was no) movement of the leads or cords such that stress would have resulted on the internal connections.

[☐] The movement between the power cord and enclosure was 0 mm.

[☐] The movement between the insulation and conductor was 0 mm.

[☒] There (was / ~~was no~~) displacement or breakage of the cord, or cable, or deformation of its anchoring surface.

CONCLUSION:

[☐] Test result: Fail, fail comment:

[☐] Sample revision record:

[☒] Test result: Pass. The results complied with the requirements.

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TABLE: Critical components information

Object/part no.	Manufacturer/ Trademark	Type/Model	Technical Data	Standard	Mark(s) of Conformity
Ground-Fault Circuit- Interrupter (GFCI)	ZHONGSHAN KAPER ELECTRICAL CO LTD	GF01-P3-14	120VAC, 60Hz, 1800W, 15AMP, Class A(Double Insulation)	UL 943	UR E353279
Power cord	ZHONGSHAN KAPER ELECTRICAL CO LTD	SJT	300V, 105°C, 3X16AWG,VW-1	UL 62	UR E488435
Quick connector	ZHEJIANG LIANHE ELECTRONIC CO LTD	FI-S	V-0	UL 1977	UR E364711
Internal wire	DONGGUAN CHENG XING ELECTRONIC CO LTD	1007, 1015	Min. 300V, 105°C, 16- 24AWG	UL 758	UR E249743
Heat shrinkable tube	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-HFT	VW-1,125°C 600V	UL 510	UR E180908
Fibreglass tube	SHENZHEN CHAOSHENGDA TECHNOLOGY CO LTD	SRS-70	Min. Thickness: 1.0mm	UL 510	UR E351356
PCB	GOLDENMAX INTERNATIONAL TECHNOLOGY (ZHUHAI) LTD	GS-T88-B	V-0, 130 °C	UL 796	UR E330731
Current fuse	SHANGHAI FULLNESS ELECTRICAL CO LTD	TSP	T15A, 250VAC	UL 248	UR E485357
Varistor	JIEDONG HONGXIN ELECTRONIC LTD	10D471K	AC470 V, T85	UL1449	UR E315524
X capacitor	HONGZHI ENTERPRISES LTD	MPX	0.1 uF±10%, Min. 310Vac, X2 type, 110°C	UL 60384-14	UR E192572
Y capacitor	Guangdong Songtian Electronic Industrial Co.,Ltd.	SMD	Max. 2200pF± 20%, Min.250V, 125°C, Y1 type	UL 60384-14	UR E530201

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Optocoupler	EVERLIGHT ELECTRONIC (CHINA) CO LTD	EL817	Cr. / Cl. / Dti.: $\geq 7,6 \text{ mm}$ / $\geq 7,6 \text{ mm}$ / $>0,4 \text{ mm}$; 55/110/21; CTI 175	UL 1577	UR E214129
Transformer	MLILY (Shenzhen) E-Commerce Co., Ltd.	RM-10	Class B	UL 1431	Tested with appliance
-Insulation system	Huizhou Huichuan Xinchun Technology Co.,LTD	HC-130	Class B	UL 1446	UR E511492
Plastic of power box	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AC310(+)	PC/ABS, Min. V-0, RTI=85°C, Min.thickness: 2.0mm	UL 94	UR E162823
Thermostat	FOSHAN TIANPENG THERMOSTATS CO LTD	T1/11	125VAC, 10A, 47°C, 10000 cycles	UL 60730-2-9	UR E202192
Non-self-resetting thermal cut-out	FOSHAN TIANPENG THERMOSTATS CO LTD	T1M/11	125VAC, 10A, 75°C, 10000 cycles	UL 60730-2-9	UR E202192
Water valve	AOMEK	Y116-DC12V-0.1MPa	12VDC, Class A	UL 1431	Tested with appliance
Motor	DELONG	24BYJ48	12VDC, Class A	UL 1431	Tested with appliance
DC fan	HONGNAI	HN7530	12VDC, Class A	UL 1431	Tested with appliance
Heating element	MLILY (Shenzhen) E-Commerce Co., Ltd.	HE01	120VAC	UL 1431	Tested with appliance
Self-resetting thermal cut-out	Huizhou Huakaiwei Electronic Technology Co Ltd	CCS9	250VAC, 10A, 70°C, 10000 cycles	UL 60730-2-9	UR E502318
Thermal link	Zhongshan Longde Electric Co Ltd	RY157	250VAC, 10A, TF:157°C	UL 60691	UR E476383

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Plastic enclosure / Knob	FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV	AC310(+)	PC/ABS, Min. V-0, RTI=85°C, Min.thickness: 2.0mm	UL 94	UR E162823
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UL 1431**Pictures**

Overall view(Model: OPT05)



Overall view (Model:OPT05)

UL 1431

Overall view (Model:OPT05)



Overall view (Model:OPT05)

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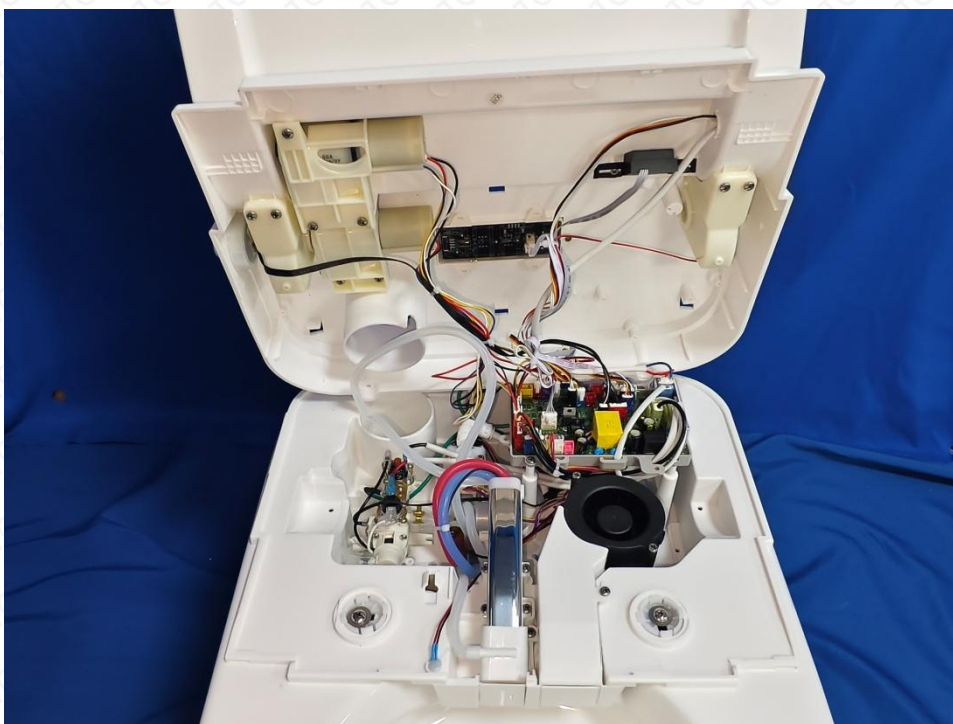
Overall view (Model:OPT05)



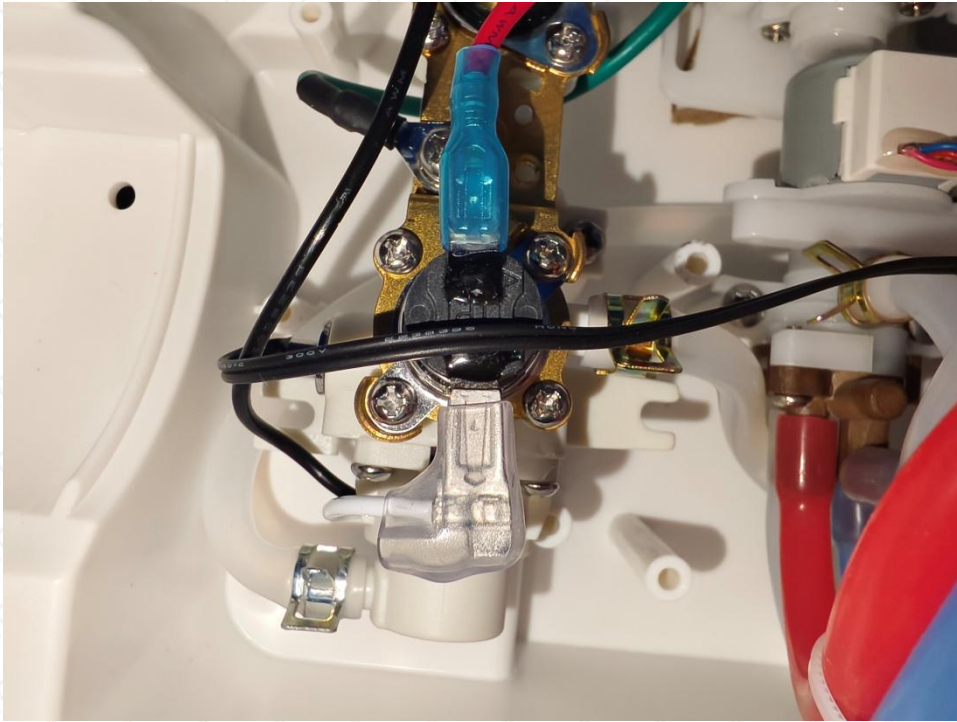
Overall view (Model:OPT05)

UL 1431

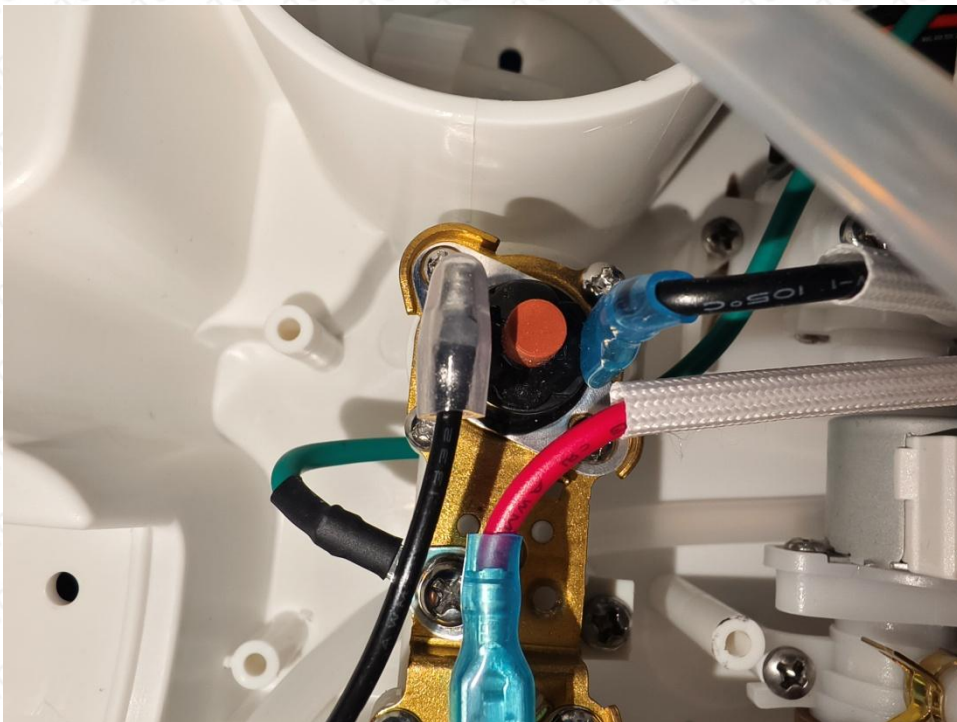
Overall view (Model:OPT05)



Internal view (Model:OPT05)

UL 1431

Internal view (Model:OPT05)



Internal view (Model:OPT05)

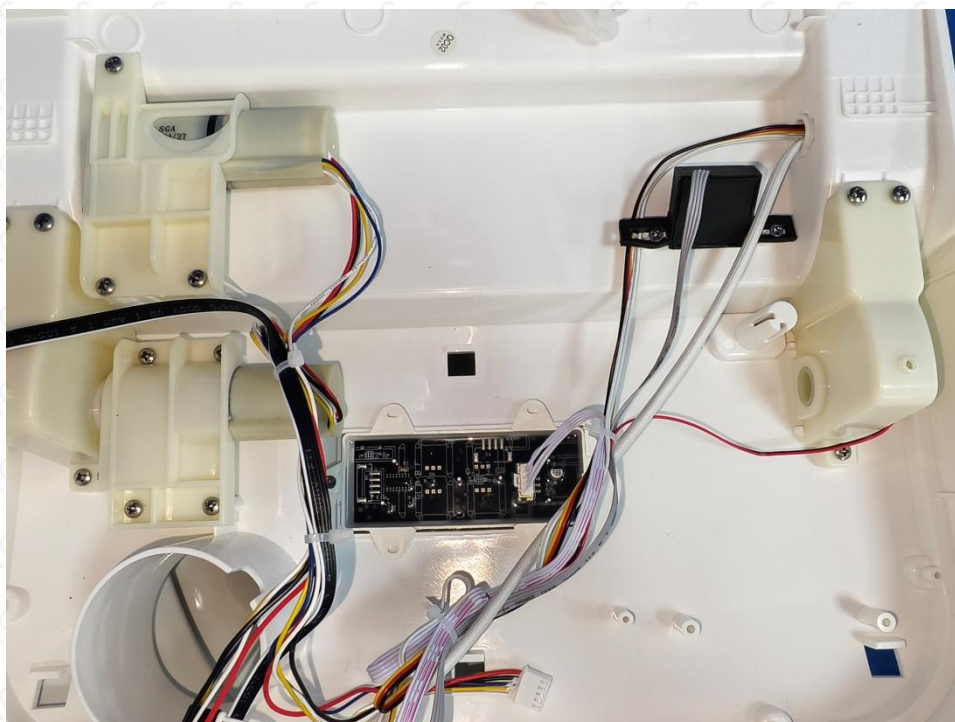
UL 1431

Internal view (Model:OPT05)

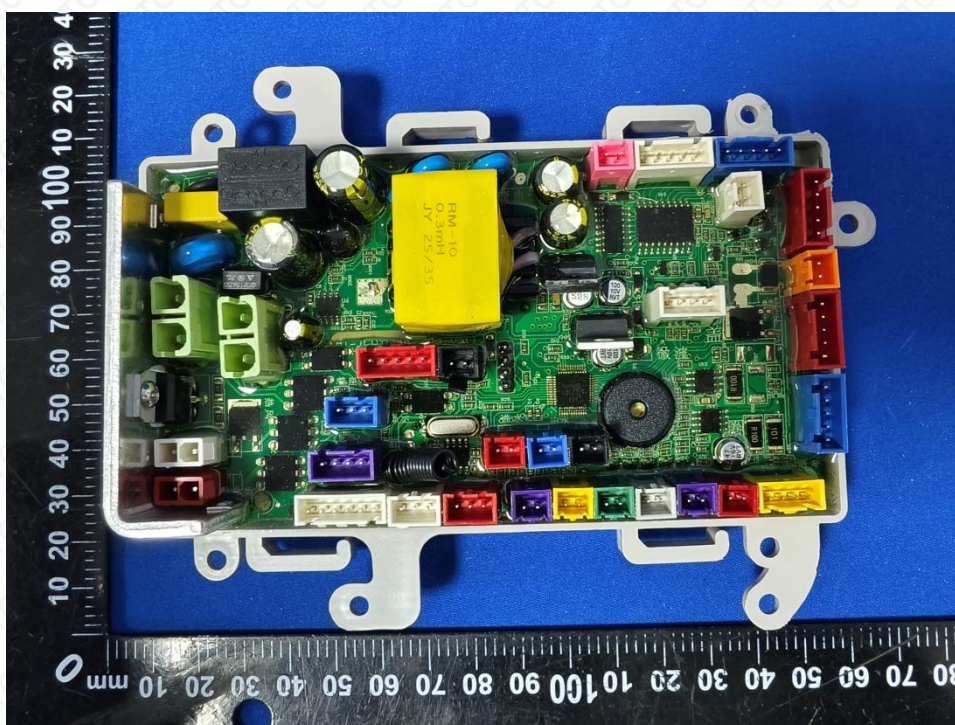


Internal view (Model:OPT05)

UL 1431

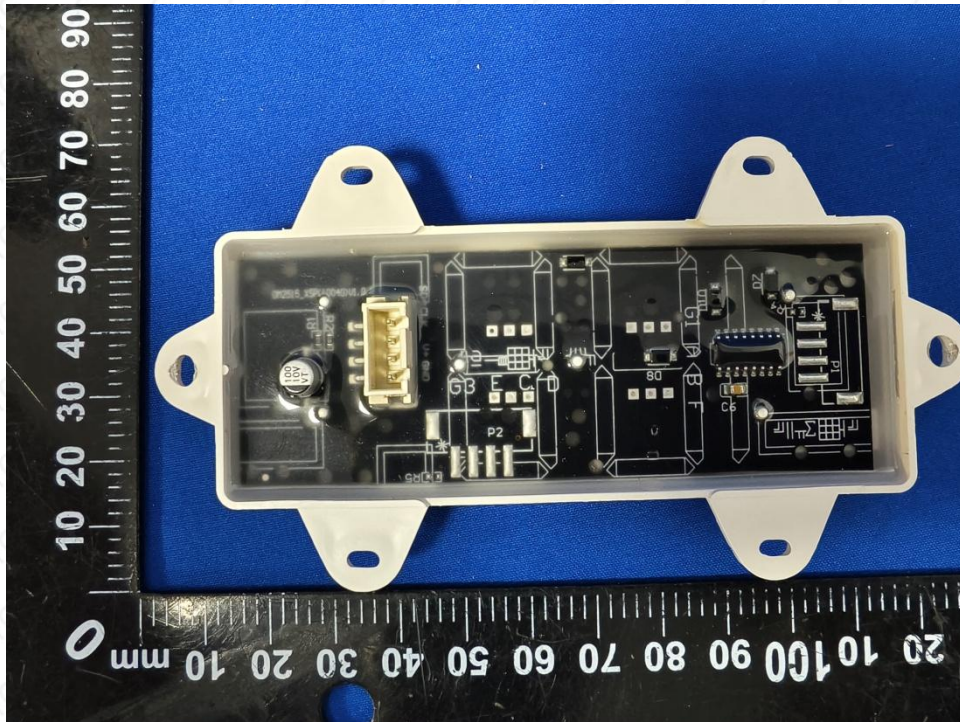


Internal view (Model:OPT05)

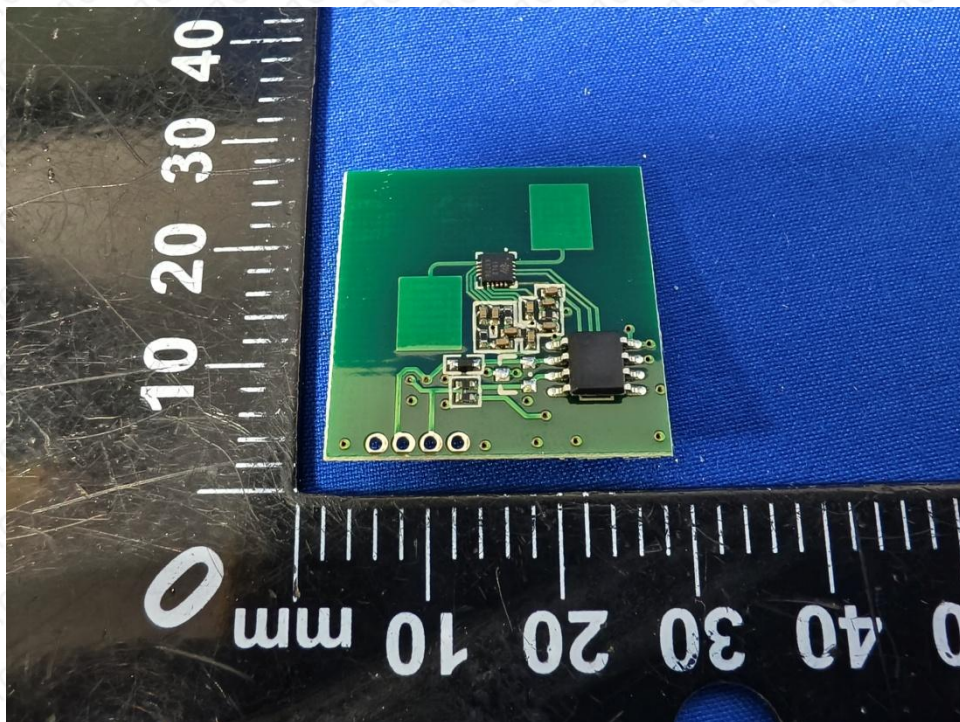


PCB view (Model:OPT05)

UL 1431

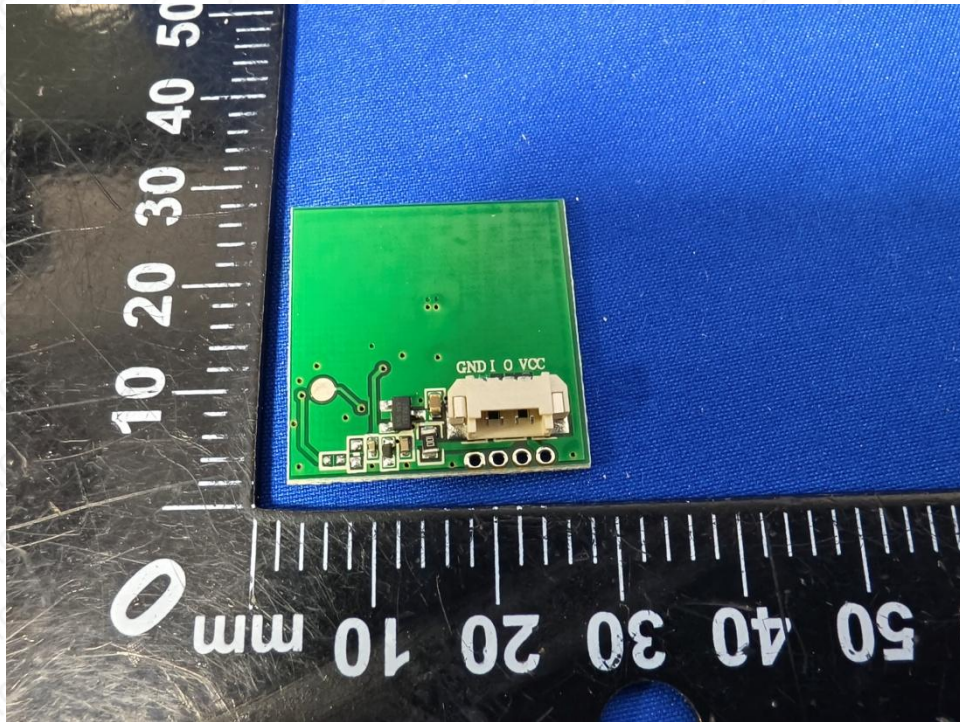


PCB view (Model:OPT05)

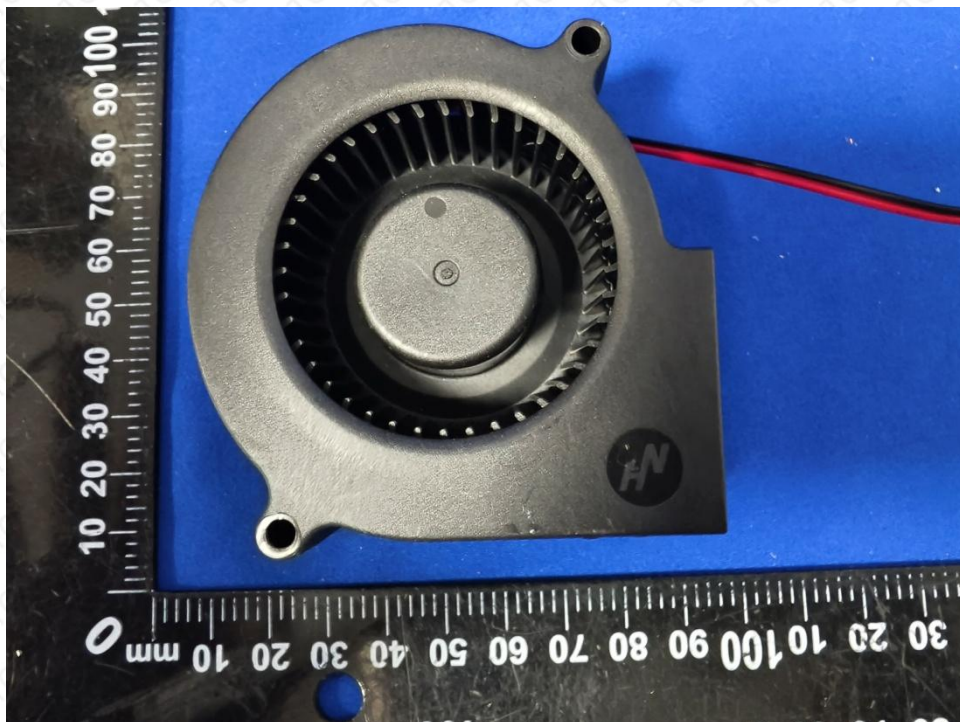


PCB view (Model:OPT05)

UL 1431

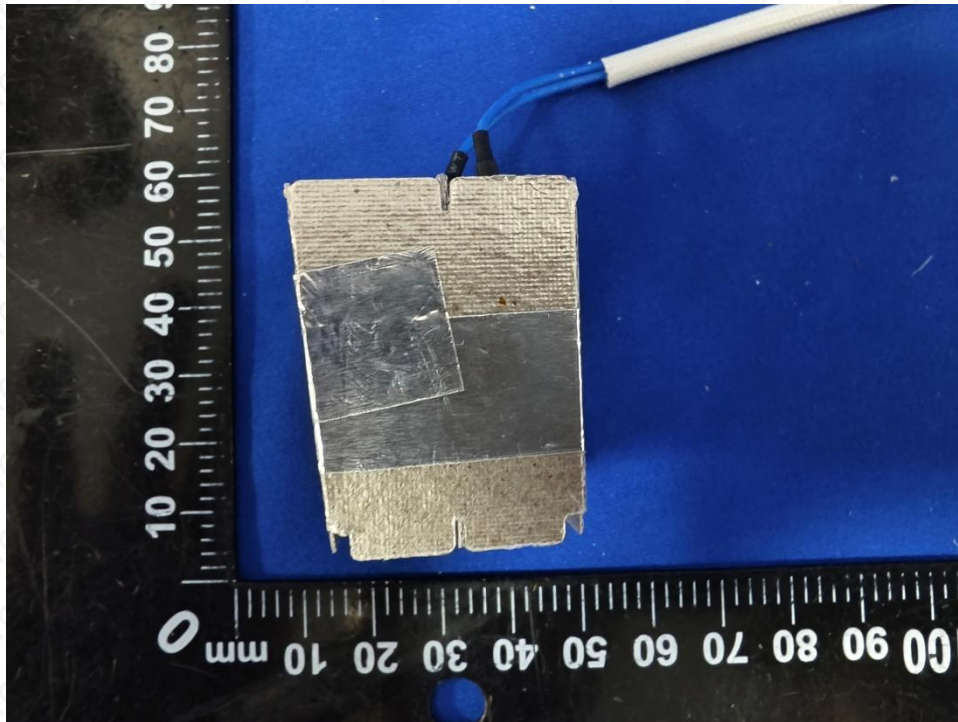


PCB view (Model:OPT05)

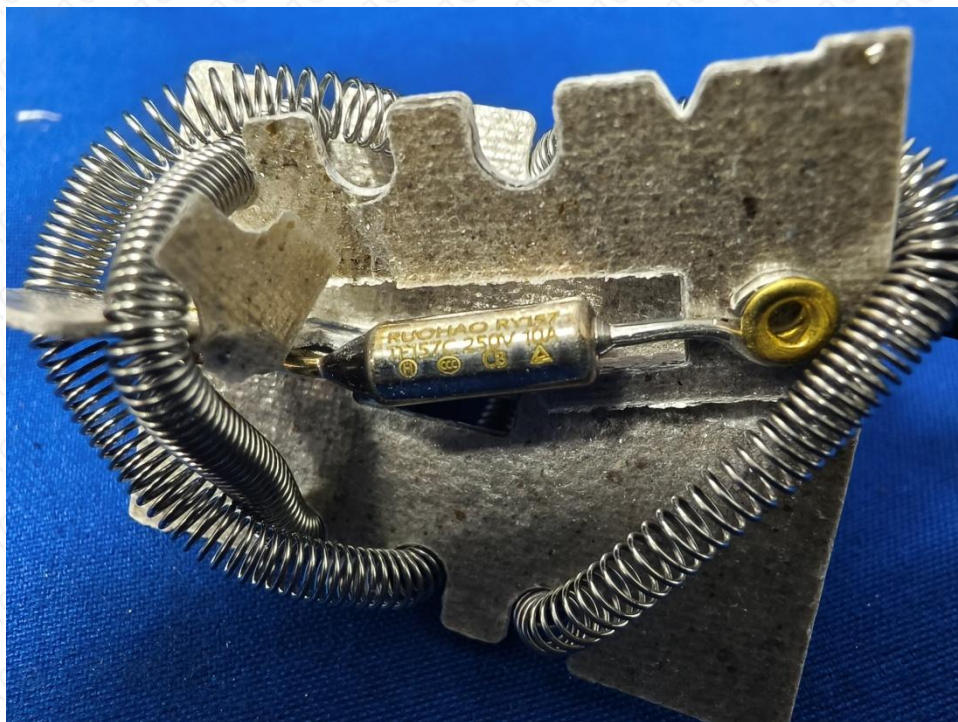


DC fan view (Model:OPT05)

UL 1431

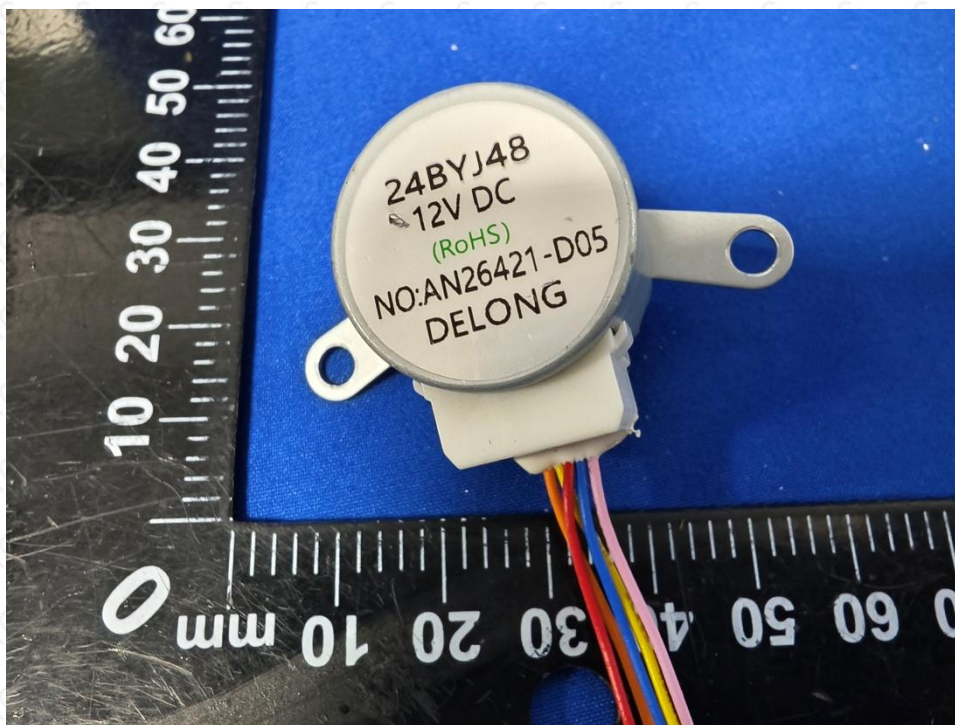


Heating element view (Model:OPT05)



Thermal link view (Model:OPT05)

UL 1431



Motor view (Model:OPT05)



Water valve view (Model:OPT05)

---End of Report---