

1.0 Reference and Address			
Report Number	105428193CRT-001	Original Issued: 30-May-2023	Revised: 1-Jul-2026
Standard(s)	Movable and Wall- or Ceiling-Hung Electric Room Heaters [ANSI/UL 1278:2014 Ed.4+R:21Feb2022]		
Applicant	Lasko Products LLC	Manufacturer 1	Risheng Electrical Appliances Co. Ltd.
Address	820 Lincoln AveWest Chester, PA 19380	Address	Chuangye Industry Zone,Xinhe, Wanjiang DistrictDongguan City, Guangdong Province 523000
Country	USA	Country	China
Contact	Parvathi Kodandaraman	Contact	Xiao Yao Ren
Phone	610-719-8949	Phone	86-769-88991018
FAX	(610) 692-9325	FAX	86-769-88991008
Email	pkodandaraman@laskoproducts.com	Email	xiaoyaoren@vip.163.com
Manufacturer 2	May Quality Industries SDN. BHD		
Address	Lot 836, Jalan Abdul Rahman, Parit Kassim, Muar, Johor, 84150		
Country	Malaysia		
Contact	Li Chun Bing		
Phone	13416618860		
FAX	NA		
Email	iso2@decomin.com.cn		

2.0 Product Description	
Product	Electric Heater
Brand name	Lasko
Description	The products covered by this report are household, indoor use, connected (smart enabled), cord connected, movable heaters.
Models	AR122, CT22122.
Model Similarity	CT22122 is the same as AR122 except CT22122 does not include the smart enabled connected feature or power switch.
Ratings	120V, 60Hz, 1500W
Other Ratings	NA

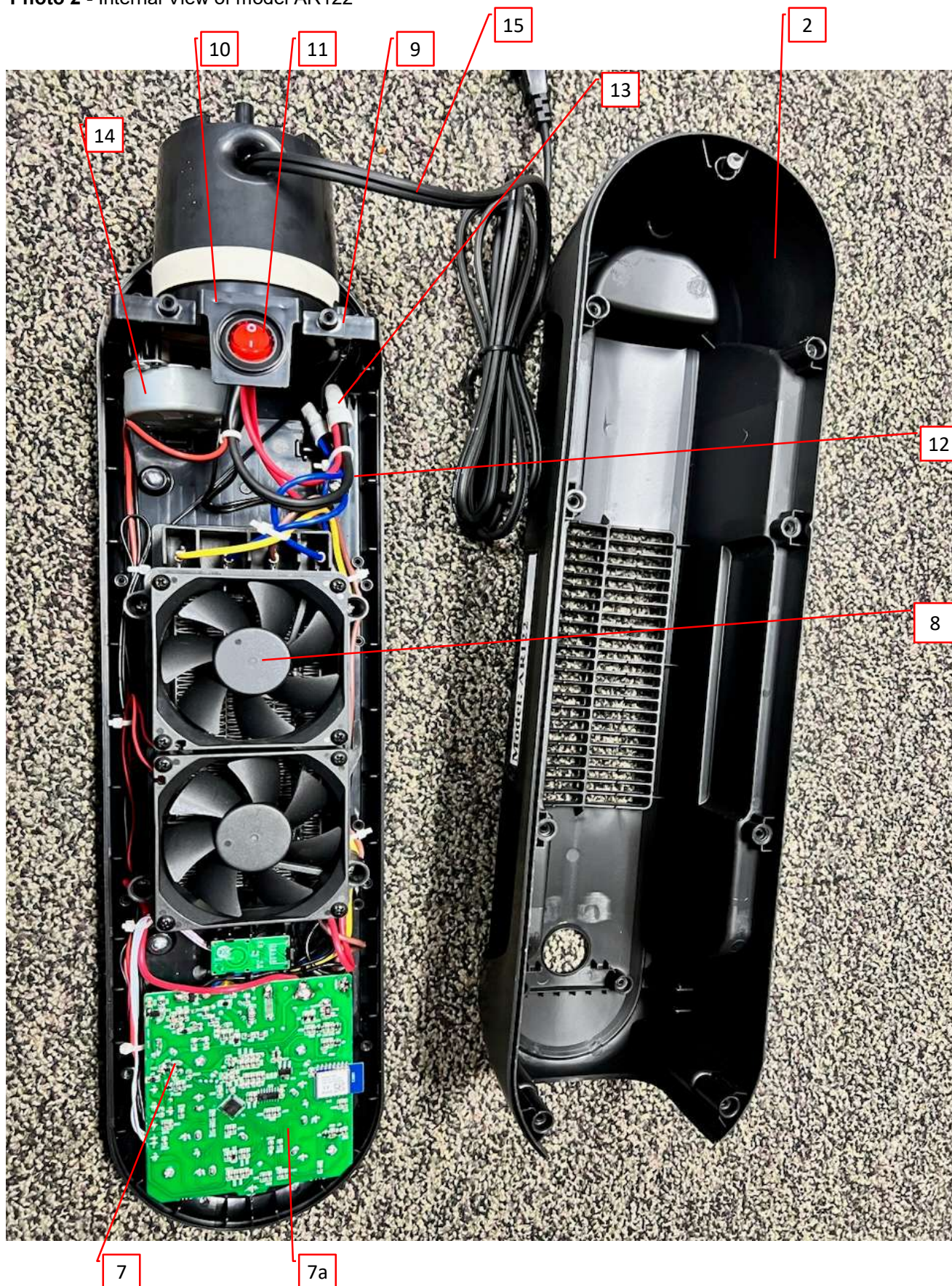
3.0 Product Photographs

Photo 1 - External View new of model AR122



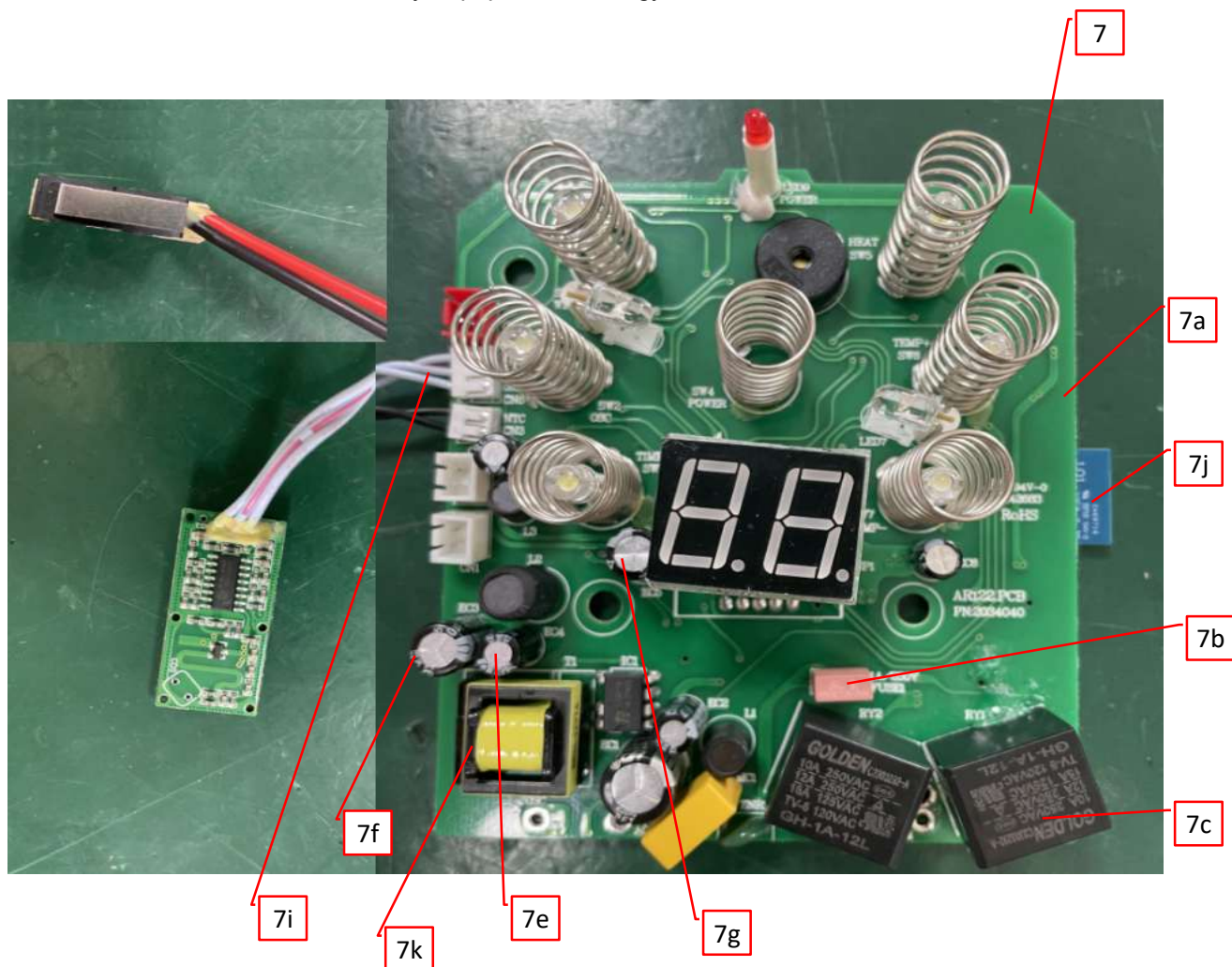
3.0 Product Photographs

Photo 2 - Internal View of model AR122



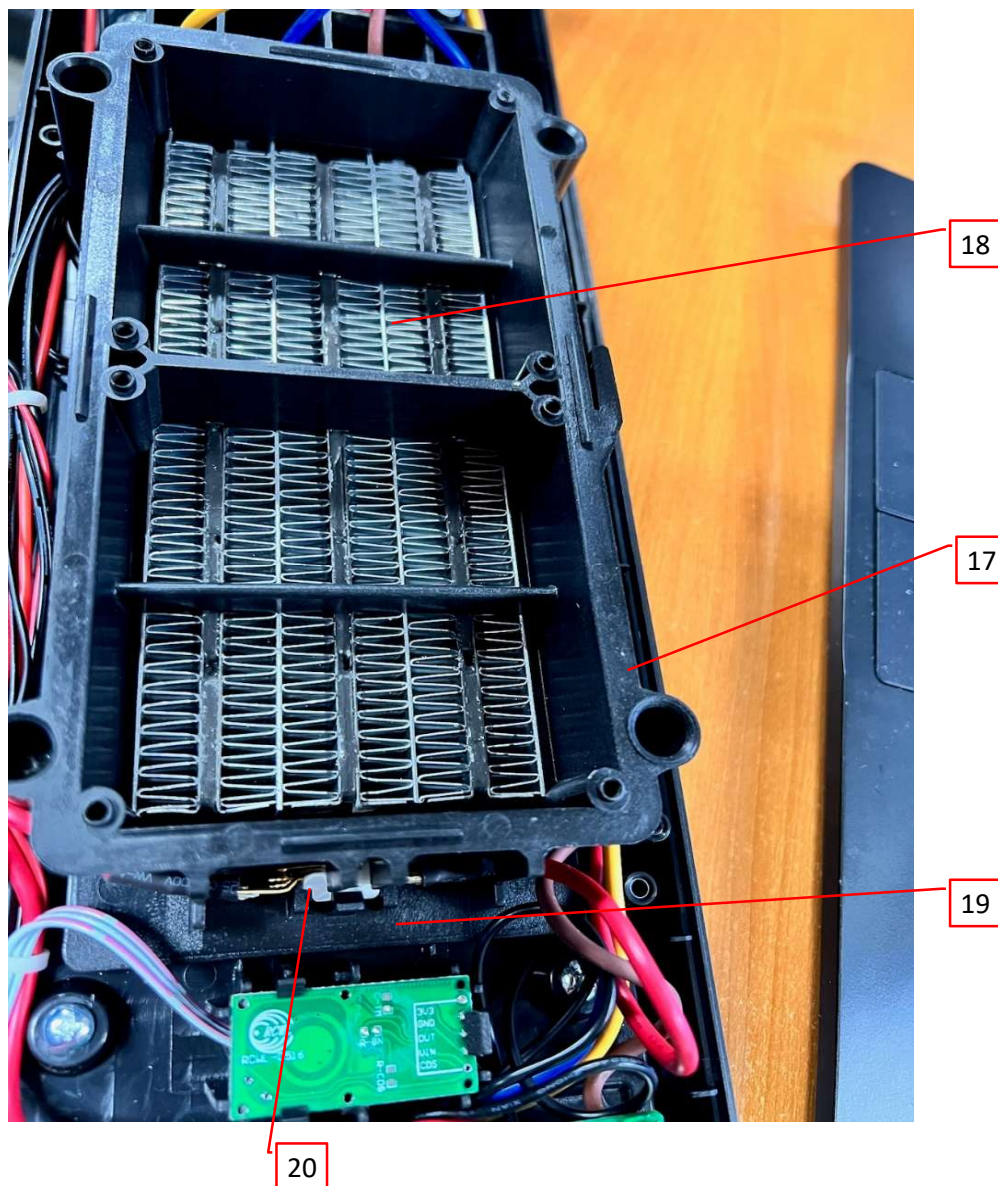
3.0 Product Photographs

Photo 3 - Control model 2034040, by Topapex Technology Co Ltd.



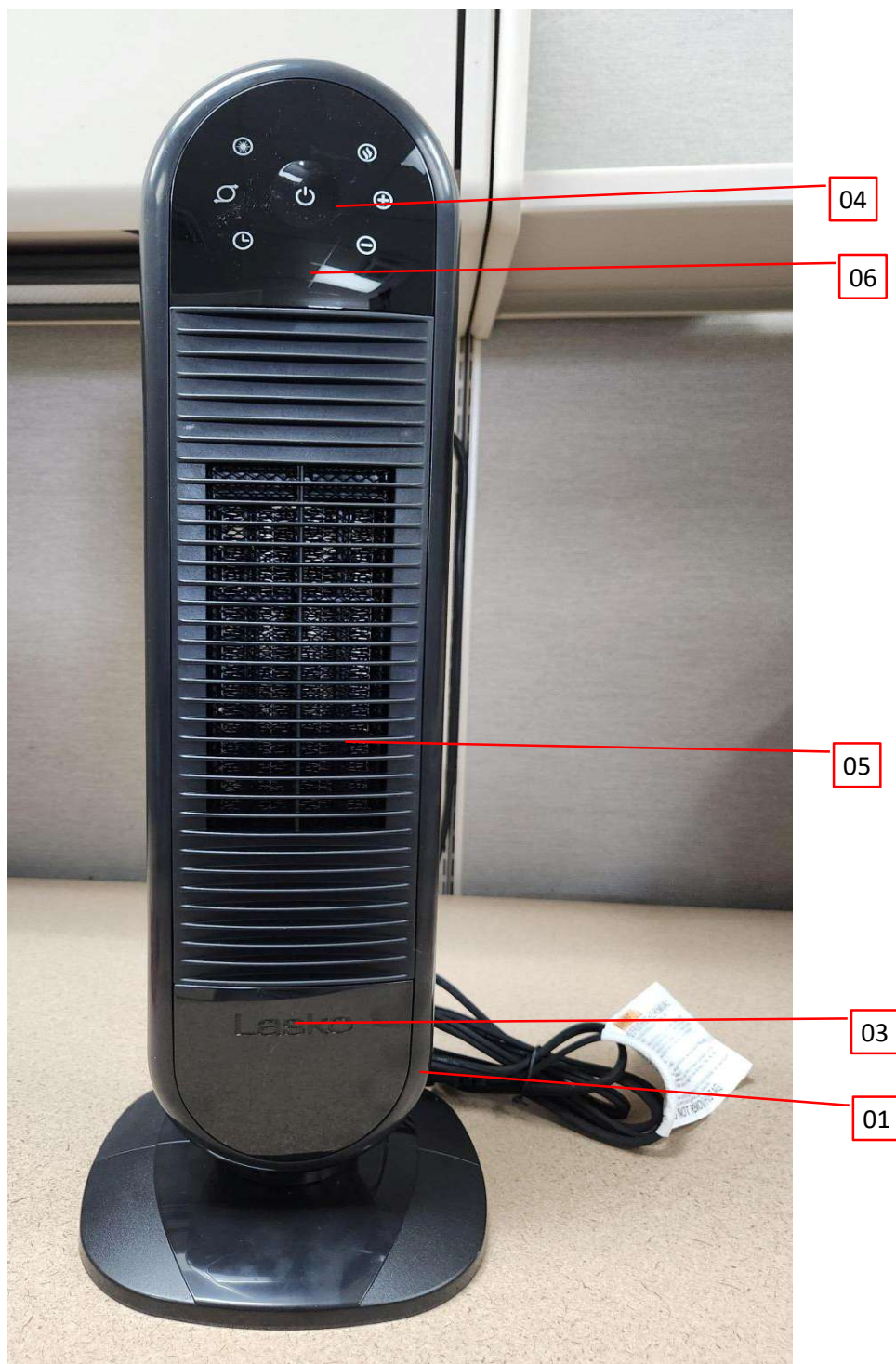
3.0 Product Photographs

Photo 4 - Heater View



3.0 Product Photographs

Photo 5 - External View of model CT22122 (Front)



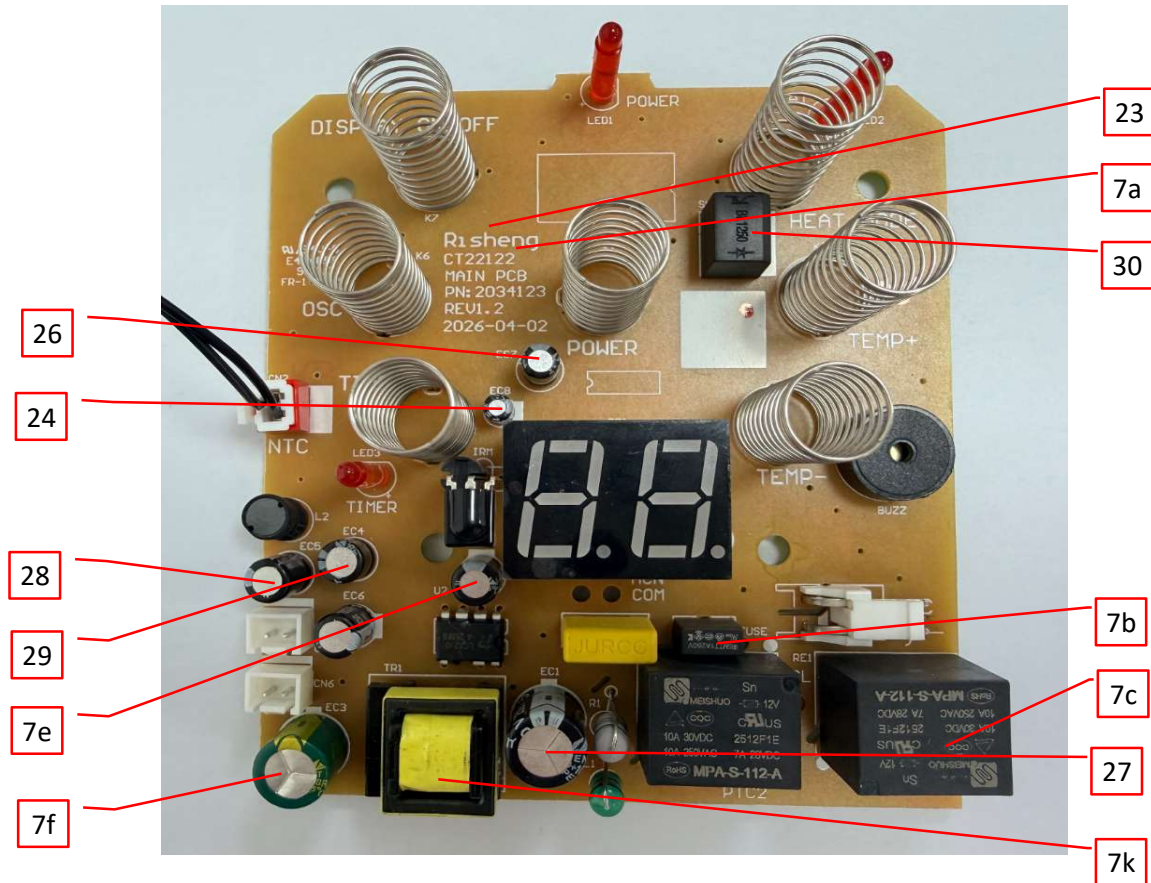
3.0 Product Photographs

Photo 6 - External View of model CT22122 (Back)



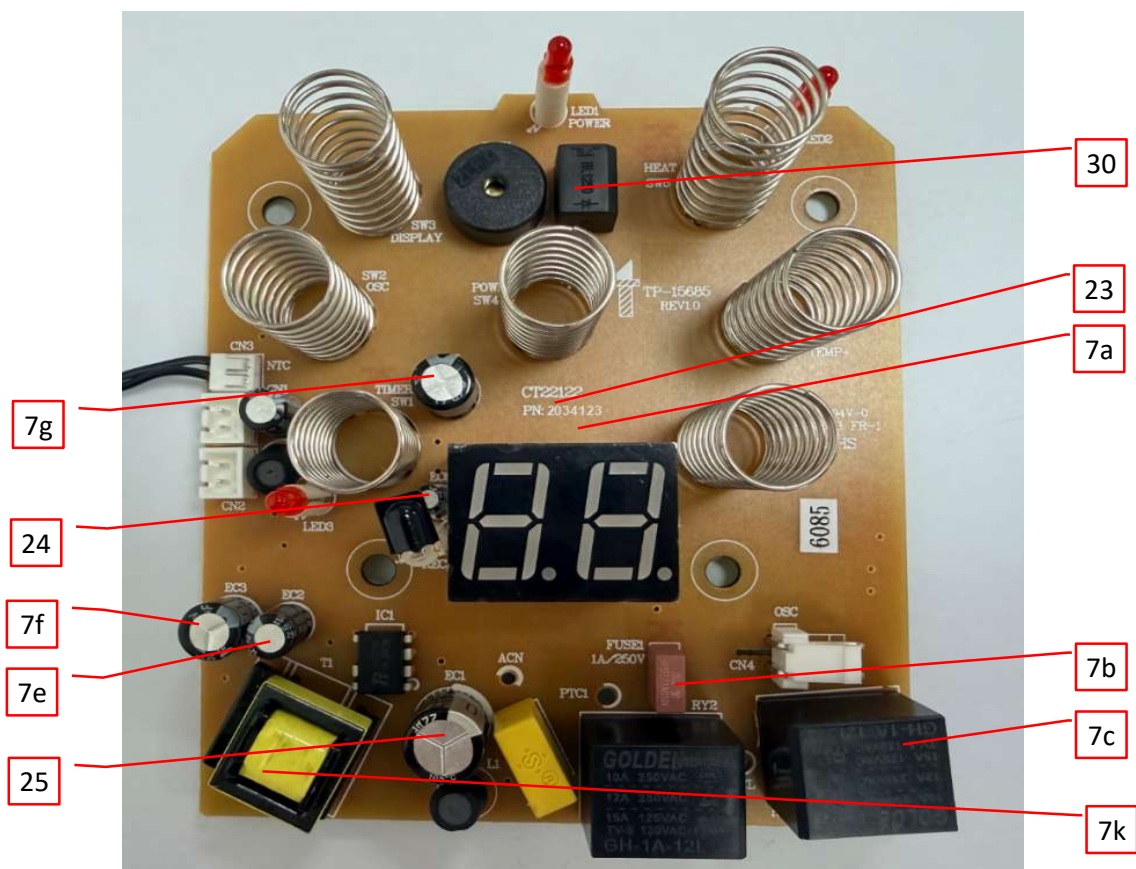
3.0 Product Photographs

Photo 7 - Control PCB model 2034123 by Risheng Electrical Appliances Co. Ltd



3.0 Product Photographs

Photo 8 - Control PCB model 2034123 by Shenzhen Topapex Technology Co., Ltd



4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1,5	1	Front Body	LG Chem Huizhou Petrochemical Co Ltd..	AF312B	ABS, min 2.1mm thick, V-0, 5VB (All), rated 70°C	UR
			Lotte Chemical Corporation.	VH-0815(+)	ABS, min 2.0mm thick,V-0, 5VB (All), rated 85°C	
2,6	2	Rear Body	Polyrocks Chemical Co Ltd.	5000(f1)	PP, min 0.75mm thick, V-0 (All), rated 120°C	UR
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	433+(f1)	PP, min 0.75mm thick, V-0 (All), rated 110°C	
1,5	3	Badge	LG Chem Huizhou Petrochemical Co Ltd.	AF312B	ABS, min 2.1mm thick,V-0, 5VB (All), rated 70°C	UR
			Lotte Chemical Corporation.	VH-0815(+)	ABS, min 2.0mm thick,V-0, 5VB (All), rated 85°C	
1,5	4	Power Button	LG Chem Ltd.	GN-1006FM	PC, min 2.5mm thick,V-0 (All), rated 110°C	cURus
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	230	PC, min 0.8mm thick,V-0 (NC, RD), rated 80°C	
1,5	5	Front Grill	Kingfa Sci & Tech Co Ltd.	PBT-RG301(r1)	PBT, min 1.5mm thick, V-0, rated 130°C 6.8mm wide.	UR
			Nantong Orient Plastics Co Ltd.	3080GF30	PBT, min 1.6mm thick, V-0, rated 130°C 6.8mm wide.	
1,5	6	Lens	LG Chem Ltd.	GN-1006FM	PC, min 2.5mm thick,V-0 (All), rated 110°C	cURus
			Silver Age Engineering Plastics (Dongguan) Co Ltd.	230	PC, min 0.8mm thick,V-0 (NC, RD), rated 80°C	

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
2,3	7	Control Board	Topapex Technology Co Ltd.	2034040	120V, 60Hz, consists of items 7a-7k	NR
2,3, 7,8	7a	PCB	Various	Various	Rated 94V-0, 120V, 130°C	UR
3,7, 8	7b	Fuse	Various	Various	Rated 250V, 0.25A, Slow Blow and 250V, 1A.	UL
3,7, 8	7c	Relay	Various	GH-1A-12L SRD-S-112DM MPA-S-112A	10A, 250VAC	UR
3	7d	Photoelectric tip over switch (Not Shown)	Various	BL-3030-45	DC5V.4-20mA, located on item 7a.	NR
3,7, 8	7e	Electrolytic capacitor	Various	Various	Rated 47µF, 50V, 105°C. EC4/EC2	NR
3,7, 8	7f	Electrolytic capacitor	Various	Various	Rated 470µF, 25V, 105°C. EC3	NR
3,8	7g	Electrolytic capacitor	Various	Various	Rated 470µF, 16V, 105°C. EC5	NR
3	7h	Triac (Not Shown)	Various	BT131 JST131N2(131 N2-8D)/JST130N2	Rated 600V, 1A. TO-92 Package. Located on item 7a.	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
3	7i	Line	Various	2468	26AWG, 300V 80°C	UR
3	7j	Wifi Module	Tuya Information Technology Co.,Ltd	WBR3	3-3.6V, 100MHz, 802.11b/g/n20, 1-14 channels at 2.4GHz.	NR
3,7,8	7k	Transformer	Guang Dong GuoCi Electronics Limited	EE16-12V1A	12V 1A	See 5.0
			Huizhou Gaoxinyuan Electronics Co., Ltd.	EE16-12V1A	12V 1A	See 5.0
2	8	Motor	POPULAR JOY LTD	CD8025H12F	DC 12V 0.35A	UR
			SHENZHEN YONGYIHAO ELECTRONIC CO.,LTD	YY8025L12S	DC 12V 0.14A	UR
			Shenzhen HaoZhi Technology Co Ltd	FD8025SM	DC 12V 0.2A	cURus
2	9	Oscillation Bracket	LG Chem Huizhou Petrochemical Co Ltd.	AF312B	ABS, min 2.1mm thick, V-0, 5VB (All), rated 70°C	cURus
			Lotte Chemical Corporation.	VH-0815(+)	ABS, min 2.0mm thick,V-0, 5VB (All), rated 85°C	
2	10	Switch Bracket	Super-Dragon Engineering Plastics Co Ltd..	PA66FG430	Nylon, min 0.75mm thick,V-0, rated 65°C	cURus
			Kingfa Sci & Tech Co Ltd.	PA66-RG301		
2	11	Rocker Switch	Zhejiang Yibao Technology Co Ltd	RCA-1113	125VAC/16A.	cURus
2	12	Internal Wire	Various	1015	24-16AWG, 600V, 105°C	cURus
2	13	Closed end Connector	Heavy Power	CE2	V-0, 600V, Connected to item 9.	cURus
				CE2X		
				CE5		
				CE5X		
			Various	Various		

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
2	14	Oscillation Motor	Foshan Shunde Hengxing Micro Motor Co Ltd.	TYJ50-8A	Rated 120Vac, 60Hz, 4W, 3RPM	cURus
			Minzhuo Electric Co Ltd	50TYZ-0.2B02		cURus
			Foshan Juntai Electrical Appliances Co Ltd.	TYC50C		cURus
			Jiangmen Dongrun Machinery and Eletrical Co Ltd.	TY50J		cURus
2,6	15	Cordset	Various	HPN-R	16AWG/2, Rated 300V, 105°C. Minimum 1.8m (6ft) - maximum 2.4m (8ft), measured from the cord exits to the face of the attachment plug. Provided with a 2 prong 1-15P style polarized plug rated 125V, 15A.	cURus or cETLus
2	16	Label (Not Shown)	Zhongshan Fuzhou Adhesive Product Co Ltd.	TL-TA25	Max temp 60°C for ABS, Indoor use, Approved for applcation on galvanized steel and ABS polymeric. 125°C Max temp for steel.	UR
				TL-SM25	Max temp 60°C for ABS, Indoor use, Approved for applcation on galvanized steel and ABS polymeric. 125°C Max temp for steel.	
			LIAN YI PRINTING CO LTD	LY-03	Rated Surface: Polypropylene - 40 to 80°C	UR
4	17	Element Holder	Kingfa Sci & Tech Co Ltd.	PBT-RG301(r1)	PBT, min 1.5mm thick, V-0, rated 130°C	cURus
			Nantong Orient Plastics Co Ltd.	3080GF30	PBT, min 1.6mm thick, V-0, rated 130°C	cURus
4	18	Element	Dongguan Longyang Electronic Technology Co. Ltd.	LYB-120-1500	Ceramic PTC. Rated 120V, 1500W	cURus
			Dongguan City LongKey Electronic Co. Ltd.	RFB-120-1500		
			KAI YI ELECTRIC HEATING (M) SDN BND.	LYB-120-1500		

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4	19	Manual Reset TCO Holder	Kingfa Sci & Tech Co Ltd.	PBT-RG301(r1)	PBT, min 1.5mm thick, V-0, rated 130°C	cURus
			Nantong Orient Plastics Co Ltd.	3080GF30	PBT, min 1.6mm thick, V-0, rated 130°C	cURus
4	20	Manual TCO Reset	Auone Electronic Mfg Ltd.	AUT-70°C	70°C, 125V	cURus
			Foshan Eagle Technology Co Ltd.	AMT-P2-70°C	70°C, 125V	cURus
4,6	21	Cord Tag	Lasko	Tyvek L 1057D	Label with adhesive, DRAGON-FC Ink imprinted on top of base material. Rated for use on HPN-R cord 16AWG or larger. If the component does not bear the mark of conformity, refer to ETL report 100775487CRT-001 to inspect this component.	ETLus Recognized
5	22	Remote (Not Shown)	LG Chem Huizhou Petrochemical Co Ltd.	HP181	ABS, Rated HB, 75°C, 1.6mm min. thickness, all colors. Uses AAA batteries	cURus
			Ningbo LG Yongxing Chemical Co Ltd	HI-121H	ABS, min 1,5mm thick, Rated HB, 80°C Uses AAA batteries	
7,8	23	Control PCB	Risheng Electrical Appliances Co. Ltd	2034123	Rated 120V, 60Hz. Consists of items 7a, 7b, 7c, 7e, 7f, 7k, 24, 26 - 30.	NR
			Shenzhen Topapex Technology Co., Ltd	2034123	Rated 120V, 60Hz. Consists of items 7a, 7b, 7c, 7e, 7f, 7g, 7k, 24, 25, 30.	
7,8	24	Aluminum Electrolytic Capacitor	Various	Various	Rated 47uF, 16V. EC6, EC8	NR
8	25	Aluminum Electrolytic Capacitor	Various	Various	Rated 22uF, 400V. EC1	NR
7	26	Aluminum Electrolytic Capacitor	Various	Various	Rated 100uF, 16V. EC7	NR
7	27	Aluminum Electrolytic Capacitor	Various	Various	Rated 22uF, 250V. EC1	NR
7	28	Aluminum Electrolytic Capacitor	Various	Various	Rated 100uF, 25V. EC5,EC6.	NR
7	29	Aluminum Electrolytic Capacitor	Various	Various	Rated 220uF, 16V. EC4	NR

4.0 Critical Components						
Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
7,8	30	Photoelectric tip over switch	Bai Ling Electronics Co., Ltd	BL-1250-45	5V, 10mA, 94V-0. PC1	NR
			Various			
NOTES:						
1) Not all item numbers are indicated (called out) in the photos, as their location is obvious.						
2) “Various” means any type, from any manufacturer that complies with the "Technical data and securement means" and meets the "Mark(s) of conformity" can be used.						
3) Indicates specific marks to be verified, which assures the agreed level of surveillance for the component. "NR" - indicates Unlisted and only visual examination is necessary. "See 5.0" indicates Unlisted components or assemblies to be evaluated periodically refer to section 5.0 for details.						

5.0 Critical Unlisted CEC Components

INSULATED COIL							
Photo #	Item no.	Name	Manufacturer/Trademark		Type / model		
3,7,8	7k	Transformer	Guang Dong GuoCi Electronics Limited		EE16-12V1A		
Electrical Rating:		12V 1A			Insulation class A		
Component Standard used:		UL 5085-1, UL 5085-3					
MATERIALS LIST (refer to illustration 3 for assembly drawing)							
Component		Manufacturer	Type/model	Dimensions/thickness/assembly information			
Bobbin		CHANG CHUN PLASTICS CO.,LTD(HSINCHU FACTORY)	T375J	V-0, 150°C			
TRIPLE INSULATING WIRE		SHEN ZHEN DARUN SCIENCE AND TECHNOLOGY CO LTD	AND TECHNOLOGY CO LTD DRTIW-B	130°C			
Wire		DONGGUAN YIDA INDUSTRIAL CO.,LTD	QA-1/2UEW	130°C			
Varnish		ZHUHAI CHANGXIAN CHEMICAL TECHNOLOGY CO.,LTD	E962	130°C			
WINDING(S) RESISTANCE							
Winding Designation		Wire Size (mm ²)	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
Primary		0.17	2UEW	100	--	--	1.96
Secondary		0.4	DRTIW-B	14	--	--	0.066
VERIFICATION PROCESS							
Frequency: Annual		Test Site: CEC			Number of samples to test: 1		
Test Name		Test Parameters					
Winding resistance		See resistance per winding above.					
Dielectric Strength		Apply voltage Between			Test Voltage		Test Time
		Primary to core			1240V		60sec
		Primary to secondary			1240V		60sec
		Secondary to core			500V		60sec

INSULATED COIL				
Photo #	Item no.	Name	Manufacturer/Trademark	Type / model
3,7,8	7k	Transformer	Huizhou Gaoxinyuan Electronics Co., Ltd.	EE16-12V1A
Electrical Rating: Input 120V, Output: 12V				Insulation class A
Component Standard used: UL 5085-1, CSA C22.2#66.1, UL 5085-3, CSA C22.2#66.3				
MATERIALS LIST (refer to illustration 5 for assembly drawing)				
Component		Manufacturer	Type/model	Dimensions/thickness/assembly information
Bobbin		CHANG CHUN PLASTICS CO., LTD (HSINCHU FACTORY)	T375J (G5) (G6) (E59481)	Rated V-0, 150 °C, min thickness 0.75mm. HWI 1, HAI 0.

5.0 Critical Unlisted CEC Components						
Triple insulating wire	Huizhou Huaying Electronic Technology Co Ltd	MIW-B (E470559)	Insulation Type: Reinforced TIW: 34-18 AWG Temp Class: 130(B). Used for secondary winding			
Wire	Huizhou Chengwei Intelligent Technology Co., Ltd	(x) UEW-F-(&)-(*) 155 (E227475)	ANSI Type: MW79-C Temp Class: 155 Base Coat: Polyurethane Used for primary winding			
Core	HAINING ZHONGXIN ELECTRONICS CO., LTD	ZP44	Ferrous material			
Tube	DONGGUAN LING FREE HARDWARE PLASTICS PRODUCT CO LTD	LING FREE PTFE (E352366)	Rated 600V, VW-1, 200 °C			
Tape	CHANGSHU LIANGYI ADHESIVE TAPE INDUSTRY CO., LTD.	LY-02 (E246820)	Rated 130 °C, thermoplastic			
Bar	DONGGUAN THOUSAND IS LAND METAL FOIL CO LTD	Sn99. 7Cu0.3	Solder			
Varnish	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO., LTD.	T-4260 (E228349)	Twisted pair thermal class: 130 °C min			
WINDING(S) RESISTANCE						
Winding Designation	Wire Size	Wire Type	Turns	Volts	Amps	DC resistance (Ω) +/- 10%:
N1 (3-1)	0.15mm	2UEW	142	-	-	3.46
N2 (9-6)	0.45mm	MIW-B	20	-	-	0.070
VERIFICATION PROCESS						
Frequency: Annual		Test Site: CEC		Number of samples to test: 1		
Test Name		Test Parameters				
Winding resistance		See resistance per winding above.				
Dielectric Strength		Apply voltage Between		Test Voltage	Test Time	
		Primary to core		1240V	60sec	
		Primary to secondary		2500V	60sec	
		Secondary to core		500V	60sec	

6.0 Critical Features

Recognized Component - A component part, which has been previously evaluated by an accredited certification body with restrictions and must be evaluated as part of the basic product considering the restrictions as specified by the Conditions of Acceptability.

Listed Component - A component part, which has been previously Listed or Certified by an accredited Certification Organization with no restrictions and is used in the intended application within its ratings.

Unlisted Component - A part that has not been previously evaluated to the appropriate designated component standard. It may also be a Listed or Recognized component that is being used outside of its evaluated Listing or component recognition.

Critical Features/Components - An essential part, material, subassembly, system, software, or accessory of a product that has a direct bearing on the product's conformance to applicable requirements of the product standard.

Construction Details - For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless specified as exact or within a tolerance. In addition to the specific construction details described in this Report, the following general requirements also apply.

1. Spacing - In primary circuits, 1.6 mm minimum spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and 1.6 mm minimum between such
2. Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.
3. Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent.
4. Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a non-metallic enclosure constructed with no openings other than those specifically described in Sections 4 and 5.
5. Grounding - This product is not provided with a means of grounding as it is not required to be grounded as it is provided with a polarized plug, has a polymeric construction, and is rated less than 150V.
6. Polarized Connection - This product is provided with a polarized power supply connection. All single pole switches and fuses are connected only to the ungrounded supply circuit conductor.
7. Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized Component separable (quick disconnect) connectors of the positive detent type, closed loop connectors, or other types specifically described in the text of this report are also acceptable as internal wiring terminals. At points where internal wiring passes through metal walls or partitions, the wiring insulation is protected against abrasion or damage by plastic bushings or grommets. For the minimum applicable wiring ratings see Section 4.0.
8. Schematics - Refer to Illustration 1, 6, 7 for schematics requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked on a labeling system as described in item no. 16 of Section 4.0 as follows:
Brand name or Applicant name.
 - Model number.
 - Date of manufacture
 - Electrical rating (volts, amperes and/or power & frequency).

The following markings in French are required: None

6.0 Critical Features

10. Cautionary Markings - The following are required: The product shall be plainly marked "CAUTION" and the following cautionary marking that shall be visible from a point 1.5 m above the floor and between 0.3 and 1.2 m away from the front surface of the heater when the heater is placed in the intended use location and the marking shall be in letters not less than 3.2 mm in height and shall be of a permanent type and in a color that contrasts with that of the enclosure or background: Refer to Illustration 4a.

Cord Tag - Cord tag is marked on a cord tag system as described in item 21 of Section 4.0. The following are required: Refer to Illustration 4b

Refer to Illustration 4 for Hypothermia warning.

11. Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer. Refer to Illustrations 2 for details. Rev.A 04/23 AR122ES, CT22122ES 4/26

12. Carton Markings - The carton shall have the following markings that appear on one side except the bottom:

WARNING

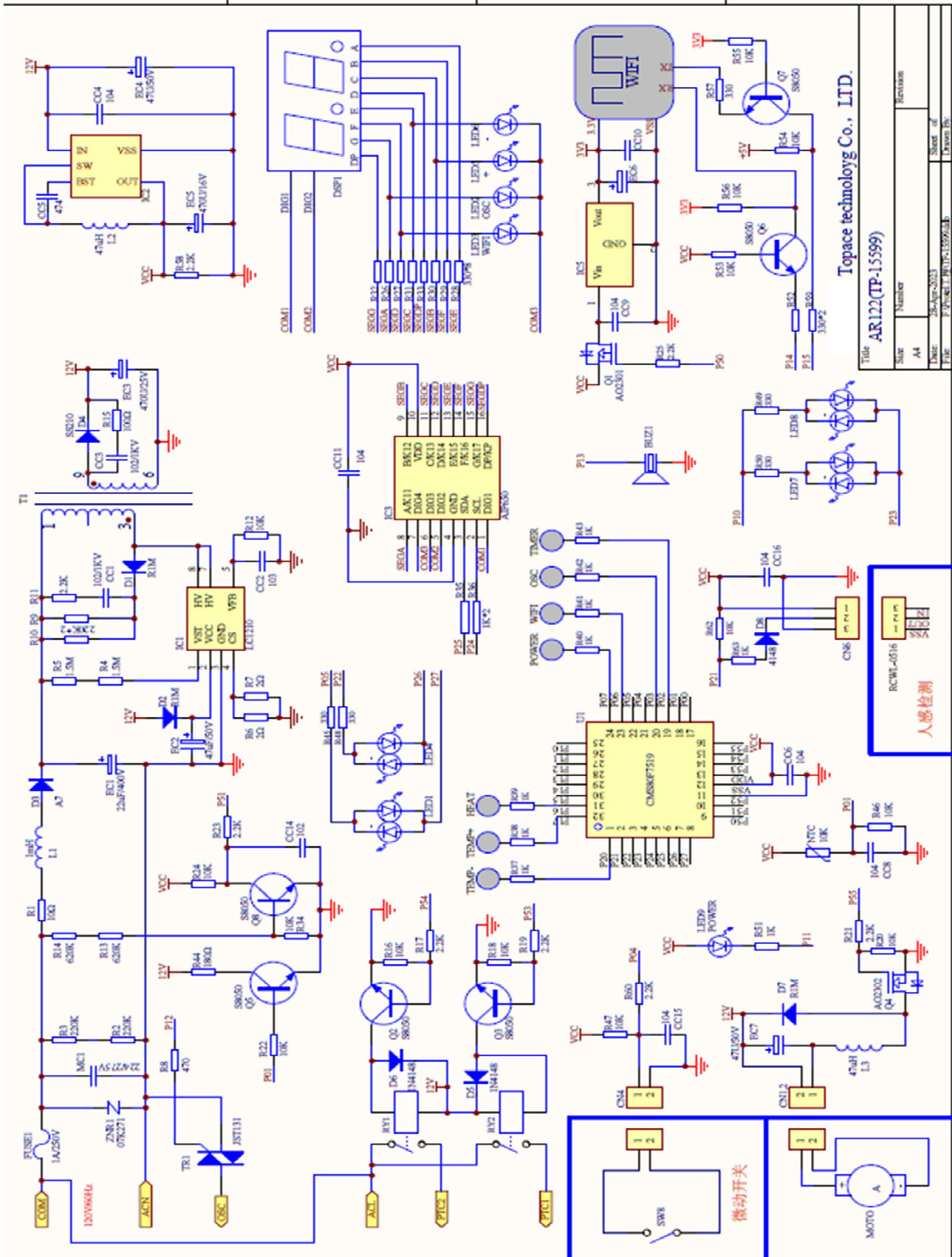
Rated: 120 Volts AC, 12.5 AMPS, 60HZ

Use only with a standard polarized 120V AC outlet.

It is intended for use on the floor or table. Always plug heaters directly into a wall outlet/receptacle. Never use with an extension cord or relocatable power tap (outlet/power strip). This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces. If provided, use handles when moving this heater. Keep combustible materials, such as furniture, pillows, bedding, papers, clothes, and curtains at least 3 feet (0.9m) from the front of the heater and keep them away from the sides and rear. The product is not to be used in bathrooms, laundry areas or other similar locations.

7.0 Illustrations

Illustration 1-Topace PCB Spacings (Verify Polarity L-N)



7.0 Illustrations

Illustration 2 -Instruction Manual

Lasko®

Smart Ceramic Tower Heater Instruction Manual

Used for Model:
AR122



Pair with Aria™ for Home App
for remote control and
advanced features

(Model AR122)



Register Your Product Today

You will benefit from:

- Efficient and enhanced support
- Future product updates

Have a Question? Need a Part?

Please Do Not Return Product to store!

Chat with us at www.lasko.com Monday-Friday 9am - 5pm EST
(Valid in U.S. and Canada only)

READ AND SAVE THESE INSTRUCTIONS

Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety instructions. Failure to comply with instructions could result in personal injury and/or property damage.

This heater is for residential use only. It is not intended to be used in commercial, industrial or agricultural settings.

Rev. A 0423

1

AR122ES

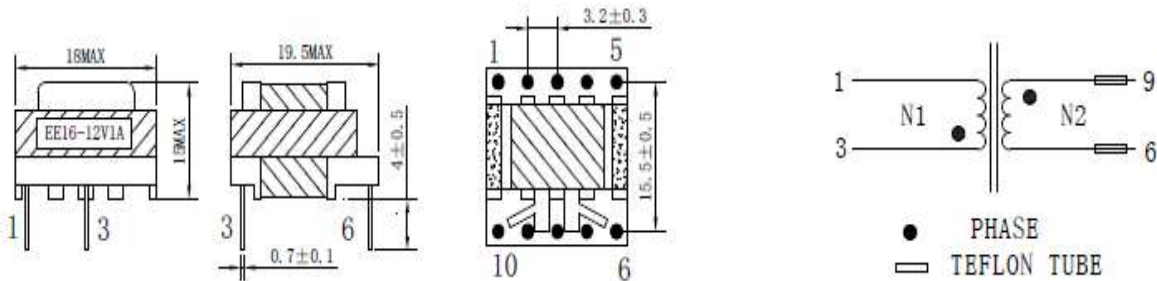
7.0 Illustrations

Illustration 3 -Transformer EE16-12V1A

产品名称 DESCRIPTION	高频变压器 High Frequency Transformer	国磁编号 GC DWG. NO	GC-E160620	客户 CUSTOMER	GC478
物料编号 CUSTOMER SPART NO	ABYQ0046				

一. 外观尺寸 physical dimension:

二、原理图 schematic diagram :



三、绕组参数 WINGDING:

绕组 NO.	起点 START	终点 FINISH	线材要求 WIRE	圈数 TURNS	绝缘胶带 INSULATION TAPE	绕线方式 REMARK
N1	3	1	2UEW Φ0.17mm	100	3T	密绕 CLOSE
N2	9	6	DRTIW-B Φ0.40mm	14	3T	密绕 CLOSE

7.0 Illustrations

Illustration 4 - Hypothermia Warning

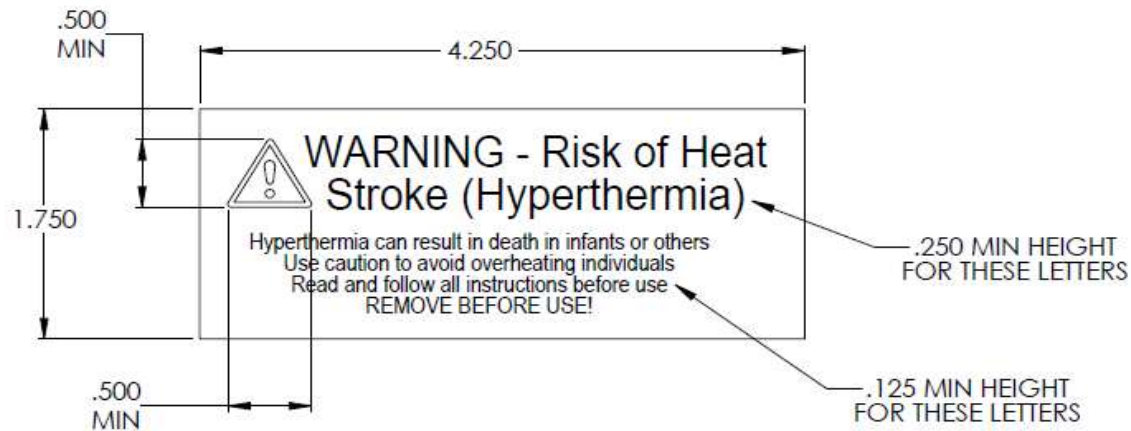
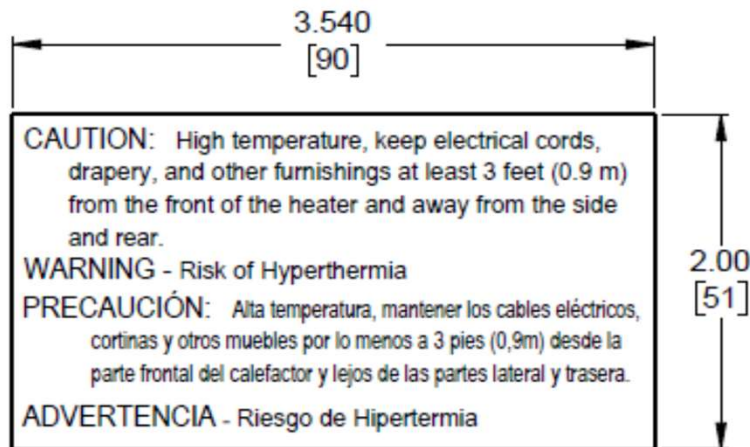


Illustration 4a - Hypothermia Warning



ULE260-63W
WARNING LABEL WITH HYPERTHERMIA
ENGLISH/SPANISH
WHITE PRINT ON CLEAR

7.0 Illustrations

Illustration 4b - Hypothermia Warning

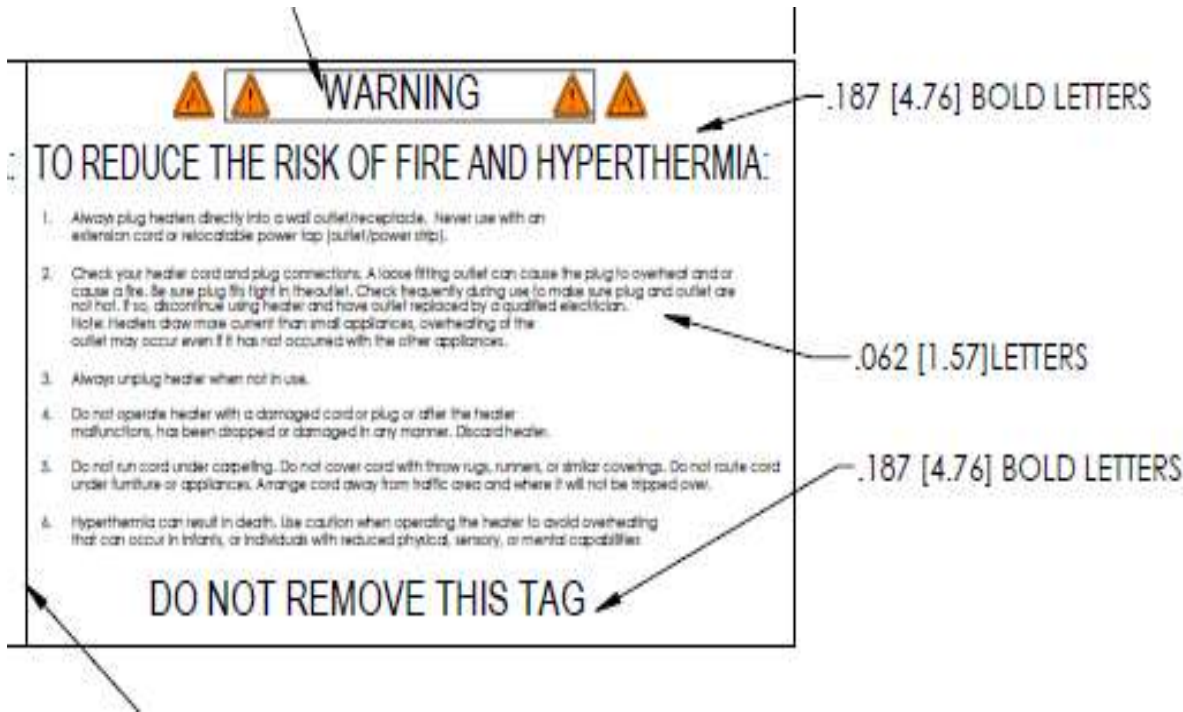


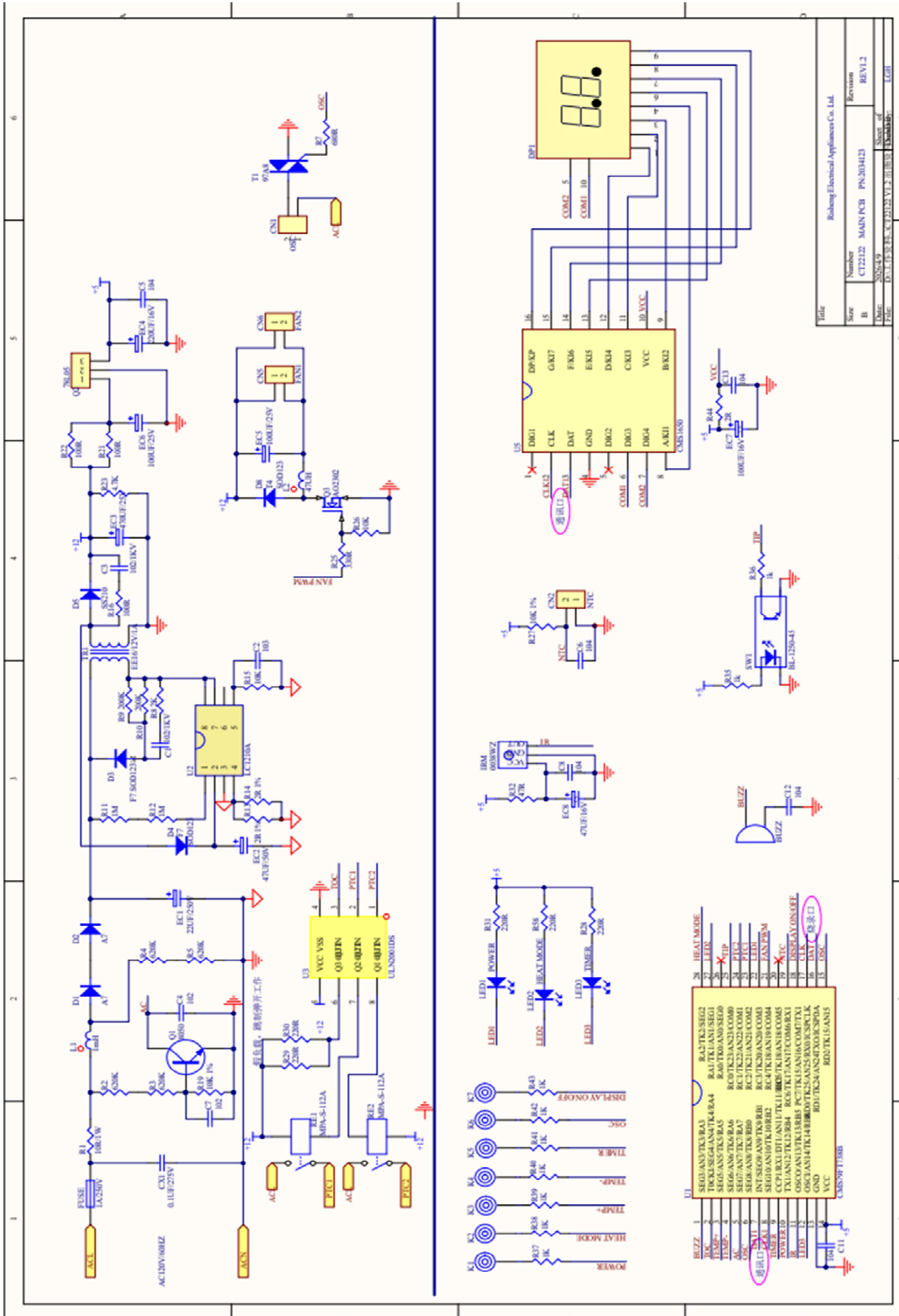
Illustration 5 - Transformer from Huizhou Gaoxinyuan Electronics Co., Ltd.

产品名称 DESCRIPTION	高频变压器 High Frequency Transformer	高鑫元编号 HST DWG. NO	PT16E3318	客户 CUSTOMER	Lvya
物料编号 CUSTOMER SPART NO	T00T0000000013				
一. 外观尺寸 physical dimension: 二. 原理图 schematic diagram :					

7.0 Illustrations

Illustration 6 - Electric Schematic for Risheng PCB

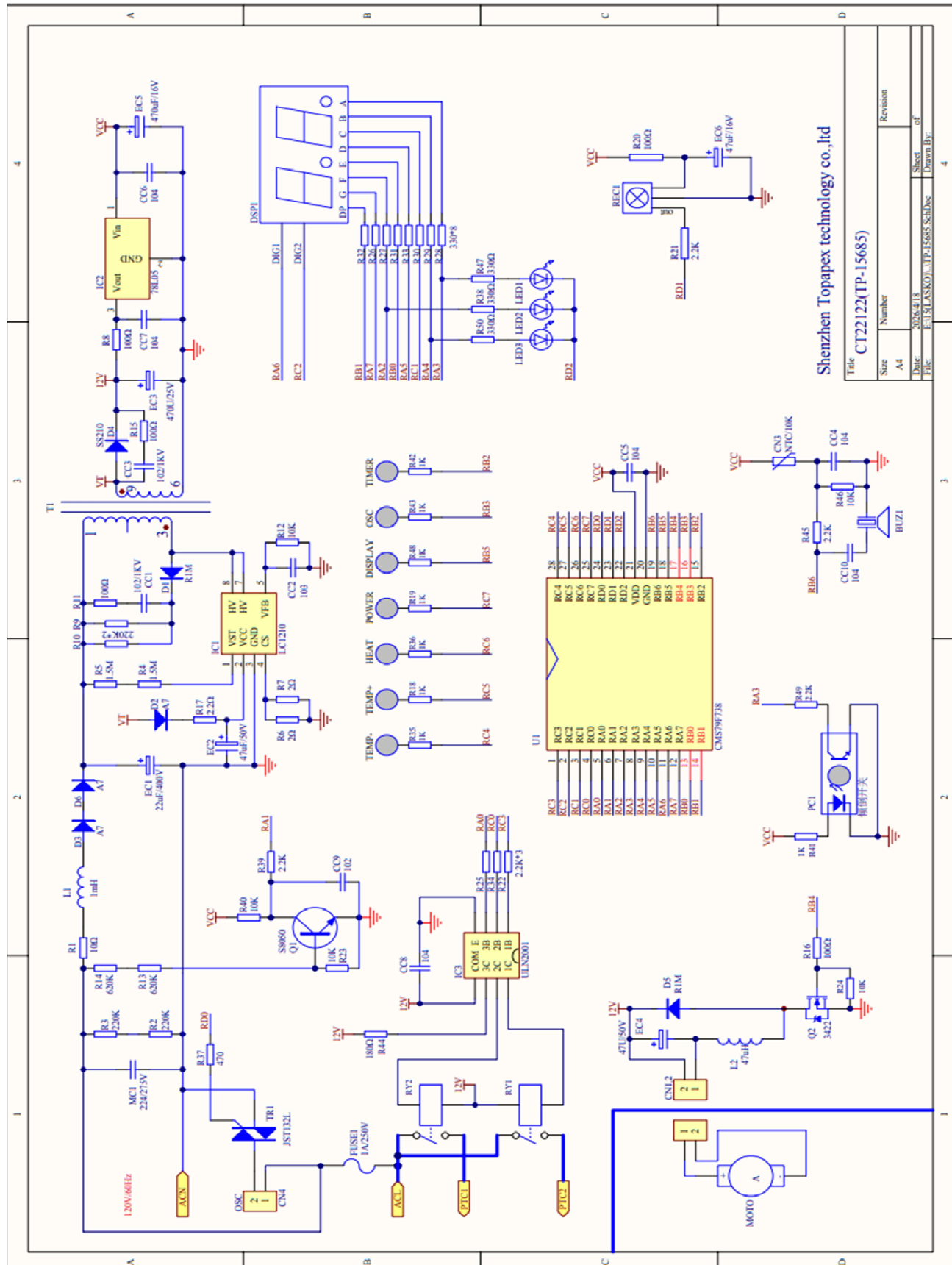
(Verify Polarity L-N)



7.0 Illustrations

Illustration 7 - Electric Schematic for Topapex PCB

(Verify Polarity L-N)



8.0 Test Summary			
Evaluation Period	05/03/2023-05/26/2023		Project No. G105428193
Sample Rec. Date	1-May-2023	Condition	Production
Sample ID.	1		
Test Location	Lasko Products, LLC 820 Lincoln Ave. West Chester, PA 19380 USA		
Test Procedure	Test Data Acceptance - Level 3		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	UL 1278 Clause	UL 746C Clause	UL 1004-3 Clause
Power Inputs	38	-	-
Leakage Current	39	-	-
Normal Temperature	40	-	-
Overvoltage Test	42.2	-	-
Stalled-Fan Test	42.3	-	-
Tip-Over Test	42.4	-	-
Vertical-Wall Test	42.5	-	-
Terry-Cloth Drape Test	42.6	-	-
Terry-Cloth Band Drape Test	42.7	-	-
Component Failure Test	47	-	-
Dielectric Voltage-Withstand	48	-	37
Insulation Resistance	49	-	-
Stability of Movable Heaters	51	-	-
Element Support Impact Tests	52	-	-
Drop Test	53	-	-
Knob Securement Test	56	-	-
Strain Relief	59	-	-
Push Back Strain Relief	16.13	61.2	-
Resistance to Impact Test	-	56	-
Mold Stress-Relief Distortion	-	61	-
Locked Rotor Test	-	-	8
Movement Detection Test, Moveable Heaters	SE3	-	-
Ambient Temperature Test	SE4	-	-
Enabled Timeout Test, Initiating a Heating Function	SE5	-	-
Enabled Timeout Test, Increasing a Temperature Setting	SE6	-	-
Evaluation Period	5/14/2023		Project No. G105428193
Sample Rec. Date	14-May-2023	Condition	Production
Sample ID.	1		
Test Location	Intertek Plano, 1809 10th St #400, Plano, TX 75074		
Test Procedure	Testing Lab		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			
Test Description	UL 1278 Clause	UL 746C Clause	UL 1004-3 Clause
Resistance to Electro Magnetic Phenomena (Immunity)	SE7	-	-
Evaluation Period	27-Apr-2026 to 30-Apr-2026		Project No. G106593447
Sample Rec. Date	3-Jun-2026	Condition	Production
Sample ID.	1,2,3		
Test Location	Lasko Products, LLC 820 Lincoln Ave. West Chester, PA 19380 USA		
Test Procedure	Test Data Acceptance - Level 3		
Determination of the result includes consideration of measurement uncertainty from the test equipment and methods. The product was tested as indicated below with results in conformance to the relevant test criteria.			
The following tests were performed:			

8.0 Test Summary			
Test Description	UL 1278 Clause	UL 746C Clause	-
Mold Stress Relief Distortion Test	9.4	29, 61.2	-
Impact Polymeric Materials Test	12.2	56	-
Push Back Strain Relief Test	16.13	29, 61.2	-
Power Input Test	38	-	-
Normal Temperature Test	40	-	-
Component Failure Test	47	-	-
Dielectric Voltage-Withstand Test	48	-	-
Strain Relief Test	59	29, 61.2	-
Strain Relief Test Following Mold Stress Relief Distortion	59	29.1c, 61.2	-
8.1 Signatures			
A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of the standards indicated in Section 1.0.			
Completed by:	Brendan Pursoo	Reviewed by:	Russell Ransom
Title:	Engineer	Title:	Sr. Staff Engineer
Signature:		Signature:	

9.0 Correlation Page For Multiple Listings

The following products, which are identical to those identified in this report except for model number and Listee name, are authorized to bear the ETL label under provisions of the Intertek Multiple Listing Program.

BASIC LISTEE	Lasko Products LLC
Address	820 Lincoln AveWest Chester, PA 19380
Country	USA
Product	Electric Heater

MULTIPLE LISTEE 1	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 2	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS

MULTIPLE LISTEE 3	None
Address	
Country	
Brand Name	
ASSOCIATED MANUFACTURER	
Address	
Country	
MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS

10.0 General Information

The Applicant and Manufacturer have agreed to produce, test and label ETL Listed products in accordance with the requirements of this Report. The Manufacturer has also agreed to notify Intertek and to request authorization prior to using alternate parts, components or materials.

COMPONENTS

Components used shall be those itemized in this Intertek report covering the product, including any amendments and/or revisions.

LISTING MARK

The ETL Listing mark applied to the products shall either be separable in form, such as labels purchased from Intertek, or on a product nameplate or other media only as specifically authorized by Intertek. Use of the mark is subject to the control of Intertek.

The mark must include the following four items:

- 1) applicable country identifiers "US" and/or "C" or "US", "C" and "EU"
- 2) the word "Listed" or "Classified" or "Recognized Component" (whichever is appropriate)
- 3) a control number issued by Intertek
- 4) a product descriptor that identifies the standards used for certification. Example:

For US standards, the words, "Conforms to" shall appear with the standard number along with the word, "Standard" or "Std." Example: "Conforms to ANSI/UL Std. XX."

For Canadian standards, the words "Certified to CAN/CSA Standard CXX No. XX." shall be used, or abbreviated, "Cert. to CAN/CSA Std. CXX No. XX."

Can be used together when both standards are used.

If all standards on the ATM have the same standard title, the shared title or its abbreviation may be used in place of the examples above. Example: "Medical Electrical Equipment" or "MEE"; "Information Technology Equipment" or "ITE"; "Audio/Video Information And Communication Technology Equipment" or "A/V ICTE".

Note: A facsimile must be submitted to Intertek, Attn: Follow-up Services for approval prior to use.

The facsimile need not have a control number. A control number will be issued **after signed Certification Agreements** have been received by the Follow-up Services office, approval of the facsimile of your proposed Listing Mark, satisfactory completion of the Listing Report, and scheduling of a factory assessment in your facility.

MANUFACTURING AND PRODUCTION TESTS

Manufacturing and Production Tests shall be performed as required in this Report.

FOLLOW-UP SERVICE

Periodic unannounced audits of the manufacturing facility (and any locations authorized to apply the mark) shall be scheduled by Intertek. An audit report shall be issued after each visit. Special attention will be given to the following:

1. Conformance of the manufactured product to the descriptions in this Report.
2. Conformance of the use of the ETL mark with the requirements of this Report and the Certification Agreement.
3. Manufacturing changes.
4. Performance of specified Manufacturing and Production Tests.

In the event that the Intertek representative identifies non-conformance(s) to any provision of this Report, the Applicant shall take one or more of the following actions:

1. Correct the non-conformance.
2. Remove the ETL Mark from non-conforming product.
3. Contact the issuing product safety evaluation center for instructions.

10.1 Evaluation of Unlisted Components

Because Unlisted Components are uncontrolled, and they do not fall under a third party follow up program, Intertek may require these components to be tested and/or evaluated at least once annually, more often for certain components, as part of the independent certification process. The Unlisted Components in Section 5.0 require testing and/or evaluation as indicated.

The Applicant will be notified, in writing, via the applicable contact methods, as defined in Section 1.0, when these components must be selected and sent to Component Evaluation Center (CEC) for re-evaluation.

Due to particular testing requirements, some components may be requested to be shipped to specific labs. Thus, specific shipment destination(s) for each sample will be provided in the written notification.

Managing CEC Location:
Intertek Testing Services NA Inc.
ETL Component Evaluation Center
1717 Arlingate Ln.
Columbus, Ohio 43228 USA
Attn: CEC Safety

Sample Disposition: Due to the destructive nature of the testing, all samples will be discarded at the conclusion of testing unless, the manufacturer specifically requests the return of the samples. The request for return must accompany the initial component shipment.

11.0 Manufacturing and Production Tests

The manufacturer agrees to conduct the following Manufacturing and Production Tests as specified:

Required Tests

Dielectric Voltage Withstand Test

11.1 Dielectric Voltage Withstand Test

Method

One hundred percent of production of the products covered by this Report shall be subjected to a routine production line dielectric withstand test.

The test shall be conducted on products, which are fully assembled. Prior to applying the test potential, all switches, contactors, relays, etc., should be closed so that all primary circuits are energized by the test potential. If all primary circuits cannot be tested at one time, then separate applications of the test potential shall be made.

The test voltage specified below shall be applied between primary circuits and accessible dead-metal parts. The test voltage may be gradually increased to the specified value but must be maintained at the specified value for one second or one minute as required.

Test Equipment

The test equipment shall incorporate a transformer with an essentially sinusoidal output, a means to indicate the applied test potential, and an audible and/or visual indicator of dielectric breakdown.

The test equipment shall incorporate a voltmeter in the output circuit to indicate directly the applied test potential if the rated output of the test equipment is less than 500VA.

If the rated output of the test equipment is 500VA or more, the applied test potential may be indicated by either:

- 1 - a voltmeter in the primary circuit;
- 2 - a selector switch marked to indicate the test potential; or
- 3 - a marking in a readily visible location to indicate the test potential for test equipment having a single test potential output.

In cases 2 and 3, the test equipment shall include a lamp or other visual means to indicate that the test potential is present at the test equipment output. All test equipment shall be maintained in current calibration.

Products Requiring Dielectric Voltage Withstand Test:

<u>Product</u>	<u>Test Voltage</u>	<u>Test Time</u>
All products covered by this Report.	1000V	60 s
	or	
	1200V	1 s

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
9-Jun-2023	D.Root	4	11	Corrected manufacturer and model number from "1/RCA-113" to "Zhejiang Yibao Technology Co Ltd/RCA-1113".
G105428193CRT	R. Ransom			
1-Jul-2026	Brendan Pursoo <i>B.P.</i>	1	-	Added Manufacturer 2 May Quality Industries SDN. BHD
		2	-	Updated Models. From:AR122. To:AR122, CT22122.
		3	3	Updated Model Similarity. From: N/A To: CT22122 is the same as AR122 except CT22122 does not include the smart enabled connected feature or power switch.
		3	3	Updated Photo name. From: Photo 3 - Control model 2034040, by Topace Technology Co Ltd. To: Photo 3 - Control model 2034040, by Topapex Technology Co Ltd.
		3	5	Added Photo 5 - External view of model CT22122 (Front)
		3	6	Added Photo 6 - External view of model CT22122 (Back)
		3	7	Added Photo 7 - Control PCB model 2034123 by Risheng Electrical Appliances Co. Ltd
		3	8	Added Photo 8 - Control PCB model 2034123 by Shenzhen Topapex Technology Co., Ltd
		4	5	Updated Technical Data. From: PBT, min 1.6mm thick, V-0, rated 130°C 6.8mm wide. To: PBT, min 1.5mm thick, V-0, rated 130°C 6.8mm wide.
		4	7	Updated manufacturer. From: Topace Technology Co Ltd. To: Topapex Technology Co Ltd.
		4	7a	Updated technical data. From:Rated 94V-0, 120V, 130°C.112*96.5MM To:Rated 94V-0, 120V, 130°C.
		4	7e	Updated Technical data. From:Rated 47µF, 50V, 105°C. EC4 To:Rated 47µF, 50V, 105°C. EC4/EC2
		4	7k	Added alternative model EE16-12V1A, manufactured by Huizhou Gaoxinyuan Electronics Co., Ltd.
		4	8	Added alternative model FD8025SM
		4	12	Updated technical data. From:22-16AWG, 600V, 105°C To:24-16AWG, 600V, 105°C
		4	13	Added alternative manufacturer. Manufacturer: Various Type/Model: Various
		4	14	Added alternative manufacturer. Manufacturer: Jiangmen Dongrun Machinery and Electrical Co Ltd. Type/Model: TY50J

12.0 Revision Summary				
The following changes are in compliance with the declaration of Section 8.1:				
Date/ Proj # Site ID	Project Handler/ Reviewer	Section	Item	Description of Change
		4	15	updated Mark of conformity. From: cURus To:cURus or cETLus
		4	16	Added alternative manufacturer. Manufacturer: LIAN YI PRINTING CO LTD Type/Model: LY-03
		4	18	Added alternative manufacturer. Manufacturer: KAI YI HEATING(M) SDN. BND. Type/Model: LYB-120-1500
		4	22	Added Remote
		4	23	Added Control PCB
		4	24	Added Aluminum Electrolytic Capacitor
		4	25	Added Aluminum Electrolytic Capacitor
		4	26	Added Aluminum Electrolytic Capacitor
		4	27	Added Aluminum Electrolytic Capacitor
		4	28	Added Aluminum Electrolytic Capacitor
		4	29	Added Aluminum Electrolytic Capacitor
		4	30	Added Photoelectric Tip over switch
		5	7k	Added new Transformer
		7	5	Added Illustration 5 - Transformer from Huizhou Gaoxinyuan Electronics Co., Ltd.
		7	6	Added Illustration 6 - Electric Schematic for Risheng PCB
		7	7	Added Illustration 7 - Electric Schematic for Topapex PCB
		8	-	Added new test block
G106593447CRT	Russell Ransom	8.1	-	Updated signatures. From: Derrek Root To: Brendan Pursoo