

1.0 Reference and Address			
Report Number	105855741CRT-001	Original Issued: 26-Jun-2024	Revised: 26-Jul-2024
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	Foshan Shunde Toppin Electrical Technology Co Ltd.
Address	820 Lincoln Avenue West Chester, PA 19380-4469	Address	No. 7 Chaogui South Road, Hi-tech Area, Ronggui, Shunde District Guangdong
Country	USA	Country	China
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2.0 Product Description	
Product	Portable Heater
Brand name	Lasko
Description	The product covered by this report is a household, indoor use, cord connected movable heaters.
Models	CD09100, CD09101
Model Similarity	CD09101 is identical to CD09100 except that it has a tip-over switch
Ratings	120V, 1500W, 60Hz
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External Front View



Photo 2 - External Rear View



3.0 Product Photographs

Photo 3 - Internal View

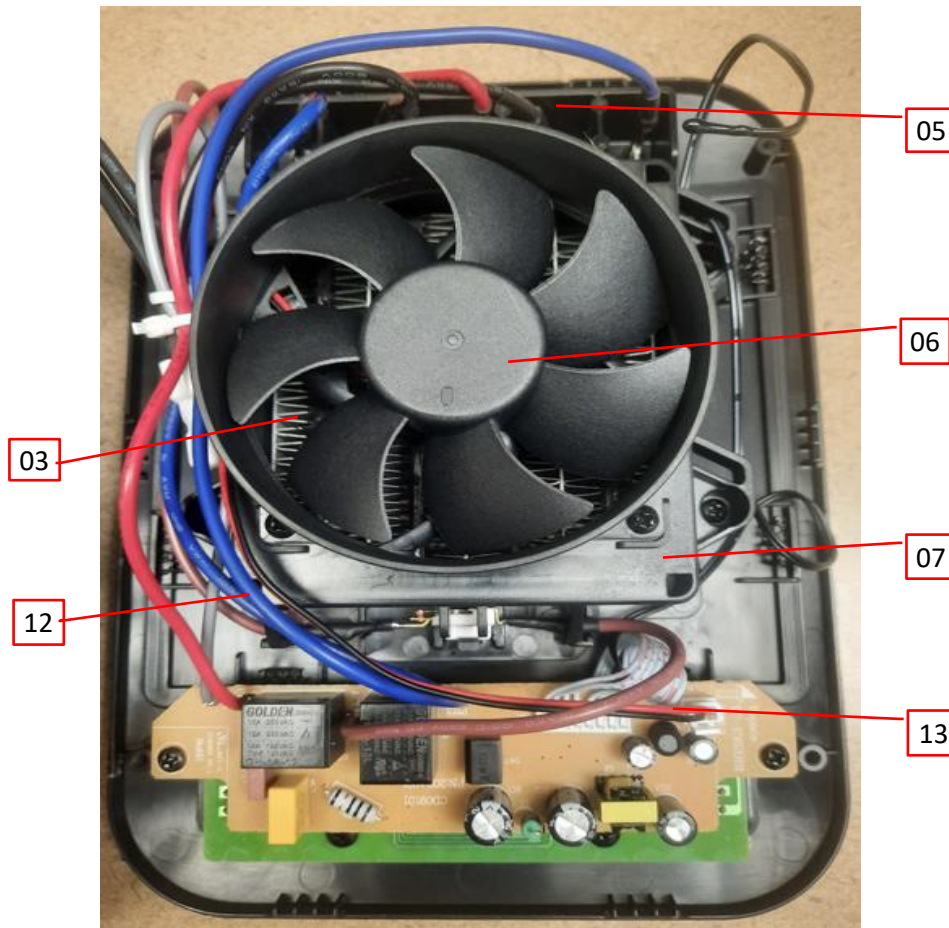
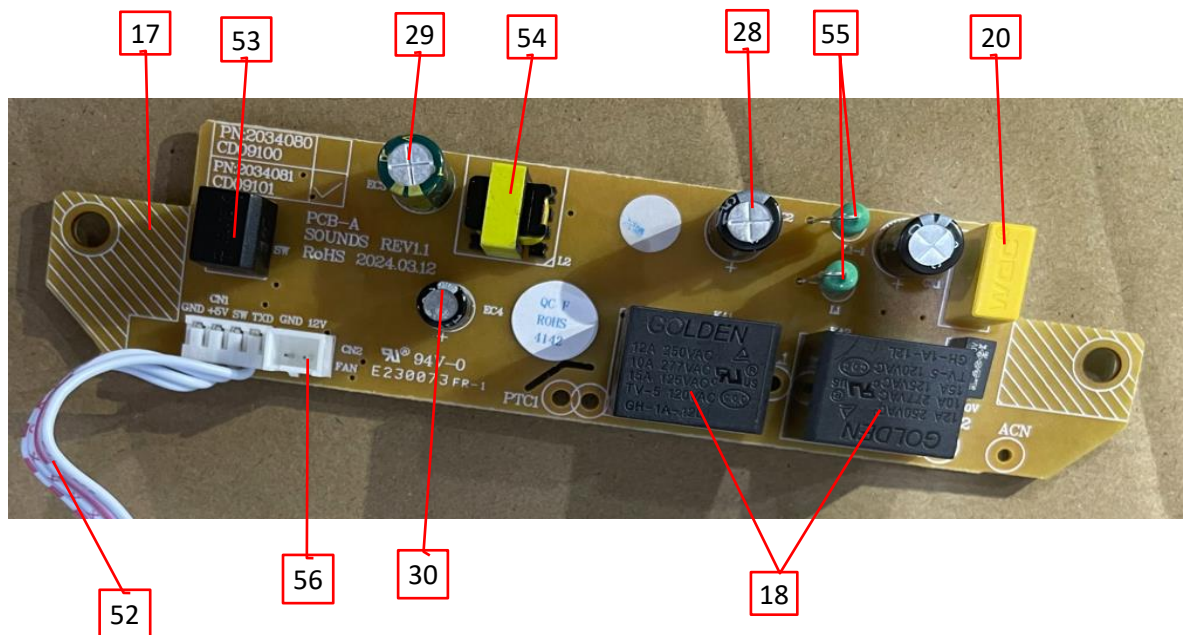


Photo 4 - PCB Sounds Power for Model CD09101



3.0 Product Photographs

Photo 5 - PCB Sounds Control for Model CD09101

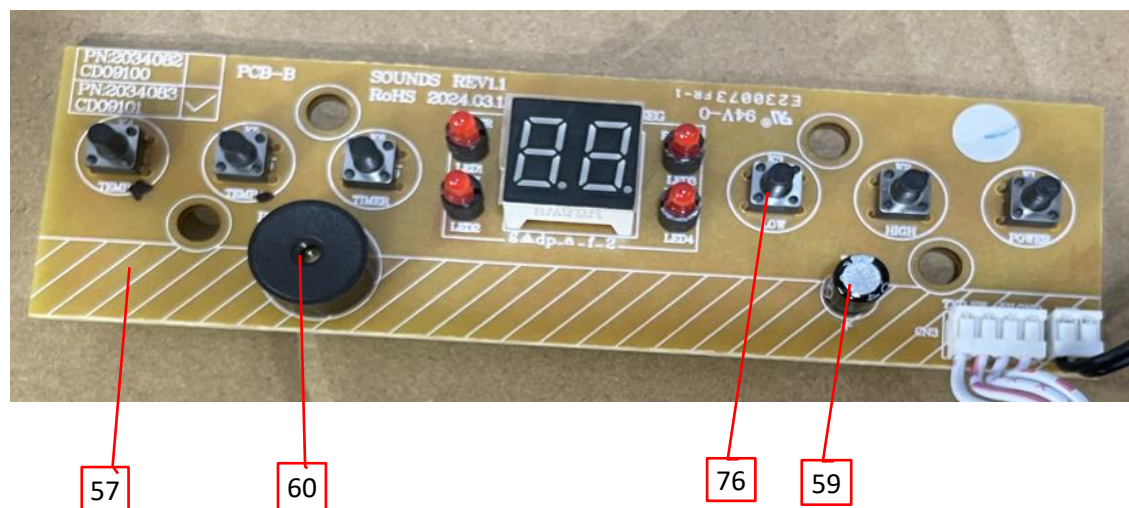
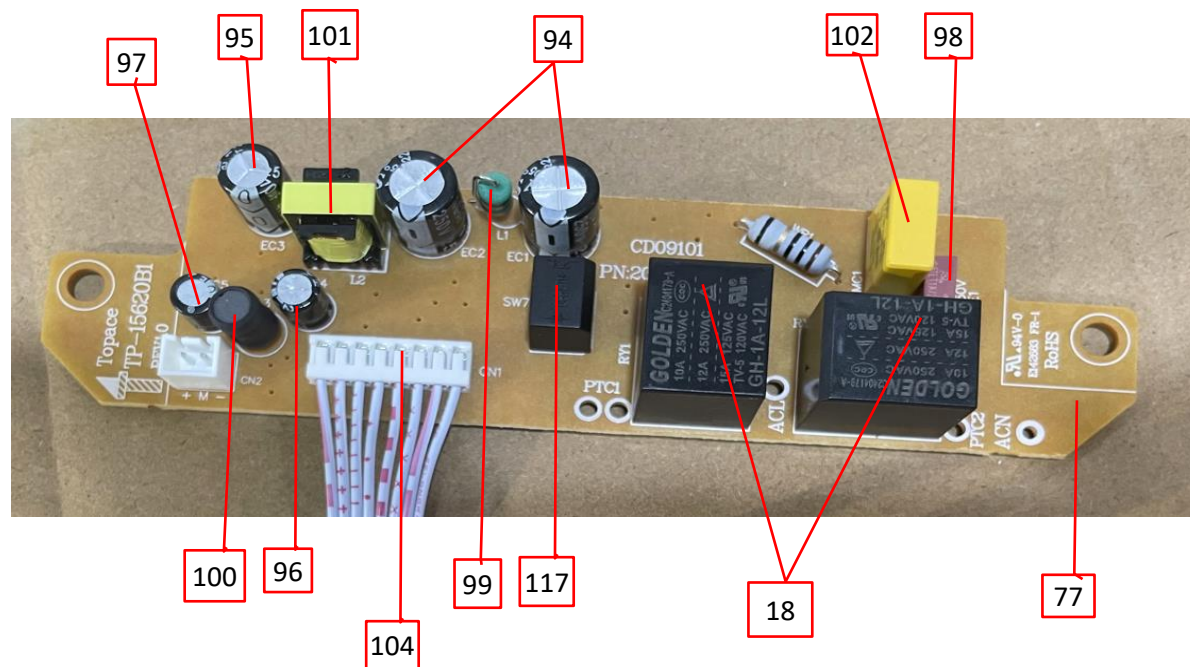


Photo 6 - PCB Topace Power for Model CD09101



3.0 Product Photographs

Photo 7 - PCB Topace Control for Model CD09101



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	1	Front Body	LG CHEM LTD	AF 364	ABS RATED 60°C 94V-0 min 1.5mm thick,	cURus
1	2	Front Grill	Various	Steel	2.3mm diameter holes, 156mm*147mm grill	NR
3	3	Element PTC	Dongguan Longyang Electronic Technology Co Ltd.	LYB-120-1500	120V~ 60Hz 1500W, 230°C max Operating Temp	cURus
			DONGGUAN CITY LONGKEY ELECTRONIC CO LTD	RFB044E/1K5	120V~ 60Hz 1500W, 230°C max Operating Temp	cURus
				RFB-120-1500		
3	4	TCO (not shown)	Auone Electronic Mfg Ltd.	AUT-70-P	125VAC 16A 70 °C. Layed horizontal between PTC and PCB boards. Held in place by TCO holder	cURus
			Foshan Eagle Technology Co Ltd.	AMT-P2	125VAC 16A 70 °C. Layed horizontal between PTC and PCB boards. Held in place by TCO holder	cURus
3	5	PTC Element Holder	LG Chem Ltd.	LUPOX GP-1006FDX	PBT RATED 130°C 94V-0 min 1.5mm thick,	cURus
3	6	Muffin Fan	SHENZHEN YONGYIHAO ELECTRONIC CO LTD	YY9225L12S	DC 12V, 0.35A, 2900rpm +/- 150 rpm	cURus
3	7	Muffin Fan Adaptor	LG Chem Ltd.	LUPOX GP-1006FDX	PBT RATED 130°C 94V-0 min 1.5mm thick,	cURus
3	8	Strain Relief (not shown)	LG Chem Ltd.	GP-1000F(#)	PP RATED 120°C 94V-0 min 1.5mm thick, (#) – May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, LI912W, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI.	cURus
2	9	Rear Body	LG Chem Ltd.	GP-1000F(#)	PP RATED 120°C 94V-0 min 1.5mm thick, (#) – May be followed by optional suffix letter from A-Z incl., except F, and except Grades HT700B, LI912A, LI912W, AF303G, AF303S, XR404T, XR407D, XR407E, HF380X, XR404E, XR404-G, XR404-P and LUMILOY GN2108FI.	cURus

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
1	10	Plug	WINHAND INDUSTRY(HK) CO.,LTD	TA-001	125V, 15A	cETLus
			UNIRISE ELECTRIC WIRE & CABLE CO LTD	UE-221	125V, 15A	cURus
1	11	Cordset	WINHAND INDUSTRY(HK) CO.,LTD	HPN-R	105°C 300V 2×16AWG, 7' cord length	cETLus
			Unirise Electric Wire & Cable Co Ltd.	HPN-R	105°C 300V 2×16AWG, 7' cord length	cURus
3	12	Lead Wire	ZHONG SHAN YONG ROI ELECTRIC FACTORY CO LTD	1015	16AWG 600V VW-1 105°C	cURus
			GUANG DONG XIN LONG ENTERPRISE CO	1015	16AWG 600V VW-1 105°C	cURus
3	13	Lead Wire	Various	1007	24AWG, 300V, 80°C	cURus
3	14	Closed-end Connector (not shown)	JIANGXI GAOCHAO INDUSTRIAL CO LTD	Various	22-14AWG, 300V, 105°C mimimum.	cURus
			Heavy Power Co Ltd.	Various	22-14AWG, 300V, 105°C mimimum.	cURus
			FOSHAN SHUNDE KAIXIANG ELECTRICAL CO LTD	Various	22-14AWG, 300V, 105°C mimimum.	cURus

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2	15	Label	ZHONGSHAN ZHANTU PRINTING FACTORY	ZT969-1	Polypropylene surface, min 80 °C	UR
			GUANGDONG TIANYUE PRINTING TECH. CO., LTD.	TY669A-125	Polypropylene surface, min 80 °C	UR
			GUANGDONG TIANYUE PRINTING TECH. CO., LTD.	TY867-150	Polypropylene surface, min 80 °C	UR
1	16	Power Cord Tag	GUANGDONG TIANYUE PRINTING TECH. CO., LTD.	TY669A-125	18AWG min,HPN-R cord,indoor use,Only for use on Cord Tag.	UR
			DONG GUAN ZHANG MU TOU XIN RONG PRINTING FACTORY	GM011	18AWG min,HPN-R cord,indoor use,Only for use on Cord Tag.	UR
4	17	PCB (Sounds-Power)	ZHONGSHAN LIXIN CHAIN-BOARD CO LTD	FR-1	120Vac, 60 Hz, 94 V-0, min 1.6mm,130°C, Consists of Items 18-55	cURus
			KINGBOARD LAMINATES HOLDINGS LTD	Various	120Vac, 60 Hz, 94 V-0, min 1.6mm,130°C, Consists of Items 18-55	cURus
			MEI ZHOU CHAO JIE ELECTRONIC CO.,LTD	Various	120Vac, 60 Hz, 94 V-0, min 1.6mm,130°C, Consists of Items 18-55	cURus
			Foshan Junze Electronics Co., Ltd	Various	120Vac, 60 Hz, 94 V-0, min 1.6mm,130°C, Consists of Items 18-55	cURus
			HUIZHOU ZHENGHUA ELECTRONICS CO LTD	Various	120Vac, 60 Hz, 94 V-0, min 1.6mm,130°C, Consists of Items 18-55	cURus
			ZHONGSHAN CHENGYE ELECTRONIC CIRCUIT BOARD CO.,LTD	Various	120Vac, 60 Hz, 94 V-0, min 1.6mm,130°C, Consists of Items 18-55	cURus

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4.6	18	Relay	Dongguan Golden Electrical Appliance Co Ltd	GH-1A-12L	125V, 15A, 1 x 10 ⁵ OPS (elec), 85°C	cURus
			ZHEJIANG MEISHUO ELECTRIC TECHNOLOGY CO LTD	MPA-S-112-A	125V, 15A, 1 x 10 ⁵ OPS (elec), 85°C	cURus
			Shenzhen Yuanze Electric Co Ltd	Y3F-SS-112DM	125V, 15A, 1 x 10 ⁵ OPS (elec), 105°C	cURus
			ZHONGSHAN XIAOLAN GUOKE RELAY FACTORY	GK3FF-12VDC-S-A	125V, 15A, 1 x 10 ⁵ OPS (elec), 85°C	cURus
			Ningbo Zettler Electronics Co Ltd	JQC-3FF/012-1HS(551)	125V, 15A, 1 x 10 ⁵ OPS (elec), 85°C	cURus
4	19	Fuse (not shown)	SHENZHEN LANSON ELECTRONICS CO LTD	SMT	250Vac, 1A	cURus
			DONGGUAN BETTER ELECTRONICS TECHNOLOGY CO LTD	932	250Vac, 1A	cURus
			ZHONG SHAN LANBAO ELECTRICAL APPLIANCES CO LTD	TB/TR	250Vac, 1A	cURus
			Foshan Xinhongfu Electronics Co., Ltd	293	250Vac, 1A	cURus
			XC ELECTRONICS (SHENZHEN) CORP LTD	5TE	250Vac, 1A	cURus

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4	20	X2 Capacitor	Dongguan Weiqing Electronic Co.,Ltd.	MPX	275V, 104K, 110°C (310/300/275V)	cURus
			Guangdong Fengming Electronic Tech. Co.,LTD	MKP-X2	275V, 104K, 110°C (85/105/110, min85°C)	cURus
			Guangdong Jinggang Electronic Technology Co.,Ltd	MKP	104K, 110°C (310/350/380 Vac)	cURus
			Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd	MPX	275V, 104K, 110°C (275/305/310/330/350 Vac)	cURus
4	21	IC (not shown)	Zhuhai Sounds Electric Co., LTD.	SD82F08S SOP-8	Input voltage : DC 5V Single chip	NR
			SHENZHEN CHINA MICRO SEMICON CO.,LTD	CMS6052D SOP-8	Input voltage : DC 5V Single chip	NR
4	22	IC (not shown)	Wuxi I-CORE Electronics Co.,Ltd.	MX2000 SOP-8	Input(MAX) voltage : DC 30V output voltage: DC 5V Output(MAX) current: 100mA Low Dropout Regulator	NR
4	23	IC (not shown)	Kiwi Instruments Corp.(shenzhen)	KP3211SG SOP-8	Input voltage : AC 85V~265V output voltage: DC 12V Output current: 450mA Buck Converter IC	NR
4	24	Mosfet (not shown)	Zhuhai Hongyi Electronic technology Co.,Ltd	N-MOS AO3402	30V, 4A, 150°C	NR
4	25	Transistor (not shown)	Foshan Blue Rocket Electronics Co.,Ltd.	S8050	40V, 800mA, 150°C	NR
			Shenzhen Long Jing Micro-electronics Co.,Ltd.	S8050	40V, 800mA, 150°C	NR
			SHENZHEN DAYA ELECTRONIC CO.,LTD	S8050	40V, 800mA, 150°C	NR

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Photo #	Item no. ¹	Name	Manufacturer/ trademark ²	Type / model ²	Technical data and securement means	Mark(s) of conformity ³
4	26	Diode (not shown)	TAKCHEONG ELECTRONICS SHANWEI CO.,LTD	ES2J	1000V, 2A, 150°C	NR
			CHANGZHOU ZHIDE ELECTRONIC CO.,LTD	ES2J	1000V, 2A, 150°C	NR
4	27	Diode (not shown)	TAKCHEONG ELECTRONICS SHANWEI CO.,LTD	M7	1000V, 1A, 150°C	NR
			CHANGZHOU ZHIDE ELECTRONIC CO.,LTD	M7	1000V, 1A, 150°C	NR

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4	28	Capacitor	Suqian Huhong Electronic Industrial Co.Ltd	Aluminum Electrolytic	250V 10UF 8*12 ±20% 105°C	NR
			YIYANG WANJINGYUAN ELECTRONIC CO.,LTD	Aluminum Electrolytic	250V 10UF 8*12 ±20% 105°C	NR
			SHENZHEN RUIKANG ELECTRONICS LIMITED COMPANY	Aluminum Electrolytic	250V 10UF 8*12 ±20% 105°C	NR
			Various	Aluminum Electrolytic	250V 10UF 8*12 ±20% 105°C	NR
4	29	Capacitor	Suqian Huhong Electronic Industrial Co.Ltd	Aluminum Electrolytic	25V 470UF 8*14 ±20% 105°C	NR
			YIYANG WANJINGYUAN ELECTRONIC CO.,LTD	Aluminum Electrolytic	25V 470UF 8*14 ±20% 105°C	NR
			SHENZHEN RUIKANG ELECTRONICS LIMITED COMPANY	Aluminum Electrolytic	25V 470UF 8*14 ±20% 105°C	NR
			Various	Aluminum Electrolytic	25V 470UF 8*14 ±20% 105°C	NR
4	30	Capacitor	Suqian Huhong Electronic Industrial Co.Ltd	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
			YIYANG WANJINGYUAN ELECTRONIC CO.,LTD	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
			SHENZHEN RUIKANG ELECTRONICS LIMITED COMPANY	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
			Various	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
4	31	Capacitor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY(HOLDING)CO.,LTD	SMD 1206	101PF ±10% 1KV X7R, 105°C	NR
			SAMSUNG ELECTRO-MECHANICS	SMD 1206	101PF ±10% 1KV X7R, 105°C	NR

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4	32	Capacitor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY(HOLDING)CO.,LTD	SMD0805	105PF ±20% 50V X7R, 105°C	NR
			SAMSUNG ELECTRO-MECHANICS	SMD 0805	105PF ±20% 50V X7R, 105°C	NR
4	33	Capacitor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY(HOLDING)CO.,LTD	SMD0805	104PF ±10% 50V X7R, 105°C	NR
			SAMSUNG ELECTRO-MECHANICS	SMD 0805	104PF ±10% 50V X7R, 105°C	NR
4	34	Capacitor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY(HOLDING)CO.,LTD	SMD0805	102PF ±20% 50V X7R, 105°C	NR
			SAMSUNG ELECTRO-MECHANICS	SMD 0805	102PF ±20% 50V X7R, 105°C	NR
4	35	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	2512	270R ±5%, 150°C	NR
4	36	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	510KR ±1%,150°C	NR
4	37	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	220KR ±5%, 150°C	NR
4	38	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	10KR ±5%, 150°C	NR
4	39	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	4.7KR ±5%, 150°C	NR

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4	40	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	150R ±5%, 150°C	NR
4	41	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	51R ±5%, 150°C	NR
4	42	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	1R ±5%, 150°C	NR
4	43	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	1206	0R ±5%, 150°C	NR
4	44	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	10KR ±1%, 150°C	NR
4	45	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	10KR ±5%, 150°C	NR
4	46	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	4.7KR ±5%, 150°C	NR
4	47	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	100R ±5%, 150°C	NR
4	48	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	0R ±5%, 150°C	NR

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4	49	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	390R ±5%, 150°C only used on Sounds PCB in Model CD09100	NR
4	50	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	1.5KR ±5%, 150°C only used on Sounds PCB in Model CD09101	NR
4	50a	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	1KR ±5%, 150°C only used on Sounds PCB in Model CD09101	NR
4	51	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	470R ±5%, 150°C, only used on Sounds PCB in Model CD09101	NR
4	52	Red & White Ribbon Cable	ZHONGSHAN CITY BOYU ELECTRIC WIRE CO.,LTD.	2468	26AWG 300V 80°C	cURus
			GUANGDONG YONGRUI CABLE TECHNOLOGY CO.,LTD	2468	26AWG 300V 80°C	cURus
			GUANGDONG FUYUAN TONG CABLE TECHNOLOGY CO.,LTD	2468	26AWG 300V 80°C	cURus
			ZHONGSHAN YIXIN ELECTNIC CO.,LTD	2468	26AWG 300V 80°C	cURus
			GUANGDONG ZHIHE WIRE & CABLE CO LTD	2468	26AWG 300V 80°C	cURus
4	53	Photoelectric Coupler Switch	DONGGUAN BAILING ELECTRON CO.,LTD	BL-1250	5V 10mA 94V0, 85°C	NR

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4	54	Inductance	GUANGDONG FENGHUA ADVANCED TECHNOLOGY(HOLDING)CO.,LTD	EE10	350uH ±8%, 125°C	NR
			FEN YI COUNTY SUNTOP ELECTRONICS CO., LTD	EE10	350uH ±8%, 125°C	NR
4	55	Color Code Inductor	ZHUHAI QINGDA ELECTRONICS TECHNOLOGY CO.,LTD	1W	1MH ±10% , 125°C	NR
			FEN YI COUNTY SUNTOP ELECTRONICS CO., LTD	1W	1MH ±10% , 125°C	NR
4	56	Wafer	Shenzhen Liangxu Electronics Co., Ltd	XH 2P	2.54, white	NR
5	57	PCB (Sounds Control)	ZHONGSHAN LIXIN CHAIN-BOARD CO LTD	FR-1	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 58-76	cURus
			KINGBOARD LAMINATES HOLDINGS LTD	Various	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 58-76	cURus
			MEI ZHOU CHAO JIE ELECTRONIC CO.,LTD	Various	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 58-76	cURus
			Foshan Junze Electronics Co., Ltd	Various	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 58-76	cURus
			HUIZHOU ZHENGHUA ELECTRONICS CO LTD	Various	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 58-76	cURus
			ZHONGSHAN CHENGYE ELECTRONIC CIRCUIT BOARD CO.,LTD	Various	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 58-76	cURus
5	58	IC (not shown)	Zhuhai Sounds Electric Co., LTD.	SD82F16S SOP-16	Input voltage : DC 5V Single chip	NR
			SHENZHEN CHINA MICRO SEMICON CO.,LTD	CMS89F1231 SOP-16	Input voltage : DC 5V Single chip	NR

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5	59	Capacitor	Suqian Huhong Electronic Industrial Co.Ltd	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
			CHENGDU DASEN ELECTRONIC CO.,LTD	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
			DONGGUAN E-TAK ELECTRONIC CO.,LTD .	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
			YIYANG WANJINGYUAN ELECTRONIC CO.,LTD	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
			SHENZHEN RUIKANG ELECTRONICS LIMITED COMPANY	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
			Various	Aluminum Electrolytic	16V 220UF 6.3*7 ±20% 105°C	NR
5	60	Buzzer	Zhongshan Zhongli Electronic CO.,Ltd.	Various	¢ 14*7MM 4KHZ 7.5MM	NR
			Foshan desheng intelligent technology co.LTD	Various	¢ 14*7MM 4KHZ 7.5MM	NR
			GuangXi Zhongli Electronic Technology Co.Ltd	Various	¢ 14*7MM 4KHZ 7.5MM	NR
			Kunshan Haixu Electronic Technology Co.Ltd	Various	¢ 14*7MM 4KHZ 7.5MM	NR
5	61	Capacitor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY(HOLDING)CO.,LTD	SMD 0805	105PF ±20% 50V X7R, 105°C	NR
			SAMSUNG ELECTRO-MECHANICS	SMD 0805	105PF ±20% 50V X7R, 105°C	NR

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5	62	Capacitor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY(HOLDING)CO.,LTD	SMD 0805	104PF ±20% 50V X7R,105°C	NR
			SAMSUNG ELECTRO-MECHANICS	SMD 0805	104PF ±20% 50V X7R,105°C	NR
5	63	Capacitor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY(HOLDING)CO.,LTD	SMD 0805	102PF ±20% 50V X7R, 105°C	NR
			SAMSUNG ELECTRO-MECHANICS	SMD 0805	102PF ±20% 50V X7R, 105°C	NR
5	64	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	10KR ±1%, 150°C	NR
5	65	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	39KR ±5%, 150°C	NR
5	66	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	24KR ±5%, 150°C	NR
5	67	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	12KR ±5%, 150°C	NR
5	68	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	10KR ±5%, 150°C	NR

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5	69	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	3.9KR ±5%, 150°C	NR
5	70	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	2.2KR ±5%, 150°C	NR
5	71	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	1KR ±5%, 150°C	NR
5	72	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	220R ±5%, 150°C	NR
5	73	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	100R ±5%, 150°C	NR
5	74	SMD Resistor (not shown)	GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD	0805	2R ±5%, 150°C	NR
5	75	NTC Wire (not shown)	ZHONG SHAN JIU LING ELECTRONIC TECHNOLOGY CO.,LTD	26TS 2P	L=370mm JC25+MF52 10K3950 ±1%	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
5	76	Switch	Yueqing Shupeng Electronic Technology Co., Ltd	Various	6*6*8 250gf	NR
			DONGGUAN TIANZHENG ELECTRONICS CO.LTD	Various	6*6*8 250gf	NR
			shenzhen cityxun yu xin elentrenics Co.Ltd	Various	6*6*8 250gf	NR
			YUEQING JIATAI AUTO PARTS CO.,LTD	Various	6*6*8 250gf	NR
6	77	PCB (Topace Power)	YEE KING INTERNATIONAL SOURCING LTD	FR-1 (YK2)	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 78-105	cURus
			DONGGUAN HUATUO ELECTRONIC CO LTD	FR-1 (YK-02)	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 78-105	cURus
			FENGSHUN JUNDA ELECTRONIC CO LTD	FR-1 (JD-V)	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Consists of Items: 78-105	cURus
6	78	Magnetic Bead (not shown)	Shenzhen Tengqi Electronics Co., Ltd	SMT 1206	100Ω, 150°C	NR
6	79	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	2512	180Ω/±5%, 150°C	NR
6	80	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	1206	0Ω/±5%, 150°C	NR
6	81	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	1206	100Ω/±5%, 150°C	NR
6	82	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	1206	330K/±5%, 150°C	NR
6	83	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	1206	620K/±5%, 150°C	NR
6	84	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	10KΩ/±5%, 150°C	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
6	85	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	102PF, 50V, 150°C	NR
6	86	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	104PF, 50V, 150°C	NR
6	87	Diode (not shown)	Jinan Jingheng Electronics Co., Ltd.	1N4007W/A7	1000V, 1A, 150°C	NR
			Jifu Electronic Co., Ltd	1N4007W/A7	1000V, 1A, 150°C	NR
			CH ELECTRONIC(SHENZHEN) CO LTD	1N4007W/A7	1000V, 1A, 150°C	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
6	88	Diode (not shown)	Jinan Jingheng Electronics Co., Ltd.	1N4148W	100V, 300mA, 150°C	NR
			Jifu Electronic Co., Ltd	1N4148W	100V, 300mA, 150°C	NR
			CH ELECTRONIC(SHENZHEN) CO LTD	1N4148W	100V, 300mA, 150°C	NR
6	89	Transistor (not shown)	CHANGHAO MICROELECTRONICS	S8050(J3Y)/SOT-23	30V, 100mA, 150°C	NR
			Jifu Electronic Co., Ltd	S8050(J3Y)/SOT-23	30V, 100mA, 150°C	NR
6	90	Field Transistor (not shown)	Stanson Technology (Shenzhen) Co., Ltd.	ST3422A/SOT-23	60V, 2.5A, 150°C	NR
6	91	IC (not shown)	Bright Power Semiconductor Co., Ltd.	BP85256D/SOP-7	Input voltage : AC85v~265v output voltage: DC 12V Output current: 300MA	NR
6	92	Three terminal positive voltage regulator (not shown)	CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD	78L05/SOT-89	INPUT(MAX) voltage: DC 30V output voltage: DC 5V Output current: 0.1A	NR
			CH ELECTRONIC(SHENZHEN) CO LTD	78L05/SOT-89	INPUT(MAX)voltage: DC 30V output voltage: DC 5V Output current: 0.1A	NR
6	93	SMT Winding Resistor (not shown)	Foshan Shunchengda Electronic Technology Co., Ltd	0309	10Ω ±5%, 150°C	NR
6	94	Capacitor	KANG CHENG DA ELECTRONIC CO.,LTD	Aluminum Electrolytic	10uF, 250V, 105°C	NR
			Suqian Huahong Electronic Industrial Co.,Ltd	Aluminum Electrolytic	10uF, 250V, 105°C	NR
			Guangdong Ketuo Electronic Components	Aluminum Electrolytic	10uF, 250V, 105°C	NR
			Various	Aluminum Electrolytic	10uF, 250V, 105°C	NR
6	95	Capacitor	KANG CHENG DA ELECTRONIC CO.,LTD	Aluminum Electrolytic	470uF, 25V, 105°C	NR
			Suqian Huahong Electronic Industrial Co.,Ltd	Aluminum Electrolytic	470uF, 25V, 105°C	NR
			Guangdong Ketuo Electronic Components	Aluminum Electrolytic	470uF, 25V, 105°C	NR
			Various	Aluminum Electrolytic	470uF, 25V, 105°C	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
6	96	Capacitor	KANG CHENG DA ELECTRONIC CO.,LTD	Aluminum Electrolytic	220uF, 16V, 105°C	NR
			Suqian Huahong Electronic Industrial Co.,Ltd	Aluminum Electrolytic	220uF, 16V, 105°C	NR
			Guangdong Ketuo Electronic Components	Aluminum Electrolytic	220uF, 16V, 105°C	NR
			Various	Aluminum Electrolytic	220uF, 16V, 105°C	NR
6	97	Capacitor	KANG CHENG DA ELECTRONIC CO.,LTD	Aluminum Electrolytic	100uF, 25V, 105°C	NR
			Suqian Huahong Electronic Industrial Co.,Ltd	Aluminum Electrolytic	100uF, 25V, 105°C	NR
			Guangdong Ketuo Electronic Components	Aluminum Electrolytic	100uF, 25V, 105°C	NR
			Various	Aluminum Electrolytic	100uF, 25V, 105°C	NR
6	98	Fuse	XC ELECTRONICS (SHENZHEN)CORP LTD	5TE	250V, 1A	cURus
			SHENZHEN LANSON ELECTRONICS CO LTD	SMT	250V, 1A	cURus
6	99	Color Circle Coils	Dongguan Kunhua Electronic Technology Co., Ltd	Various	1MH ±10% , 125°C	NR
6	100	I-core Inductance	Shenzhen Tengqi Electronics Co., Ltd	Various	47uH	NR
			Guang Dong GuoCi Electronics Limited	Various	47 uH	NR
6	101	Inductance	Guang Dong GuoCi Electronics Limited	EE10	1.0mH	NR
6	102	X2 Capacitor	SURETOP TECHNOLOGY CO LTD	MPX	275 Vac,224K, 105°C (330/310/275/250Vac)	cURus
			SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD	MPX	275 Vac,224K, 110°C (275/305/310/330/350 Vac,110°C)	cURus

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
6	103	Socket (not shown)	YUEQING HONGYI ELECTRONICS CO LTD	Various	250V, 3A, 85°C	NR
			YUEQING JIADE ELECTRONICS CO LTD	Various	250V, 3A, 85°C	NR
			ZHEJIANG CHENGMING ELECTRONCS TECHNOLOGYCO LTD	Various	250V, 3A, 85°C	NR
6	104	Line	ZELONGKANG Electronic Co. Ltd.	2468	300 Vac, 26AWG, 80°C	cURus
			XIEHE Electronic Co. Ltd	2468	300 Vac, 26AWG, 80°C	cURus
			DONGGUAN RI ZHAN HIGH TEMPERATURE WIRE CO LTD	2468	300 Vac, 26AWG, 80°C	cURus
			DONGGUAN BOLI ELECTRONIC CO LTD	2468	300 Vac, 26AWG, 80°C	cURus
7	105	PCB (Topace Control)	YEE KING INTERNATIONAL SOURCING LTD	FR-1 (YK2)	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Cosists of Items: 107-118	cURus
			DONGGUAN HUATUO ELECTRONIC CO LTD	FR-1 (YK-02)	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Cosists of Items: 107-118	cURus
			FENGSHUN JUNDA ELECTRONIC CO LTD	FR-1 (JD-V)	120Vac, 60Hz, 94 V-0, min 1.6mm,130°C, Cosists of Items: 107-118	cURus
7	106	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	100Ω/±5%, 150°C	NR
7	107	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	220Ω/±5%, 150°C	NR
7	108	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	2.2KΩ/±5%, 150°C	NR
7	109	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	10KΩ/±1%, 150°C	NR
7	110	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	3.3KΩ/±1%, 150°C, only used in Model CD09101	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	111	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	1K Ω /±1%, 150°C, only used in Model CD09101	NR
7	112	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	104pF, 50V, 105°C	NR
7	113	SMT Resistor (not shown)	Meilong Electronic (Shenzhen) Co Ltd	0603	105pF, 50V, 105°C	NR
7	114	IC (not shown)	CHINA MICRO SEMICON CO.,LTD	CMS79F116/S OP-20	Input voltage : DC 5V Single chip	NR
7	115	NTC	Yixing Gege Er Electronics Factory	various	10K±2%/B=3950±1%	NR
			SHEN ZHEN AMPRON TECHNOLOGY CO.,LTD	various	10K±2%/B=3950±1%	NR
			SHENZHEN XINGBA TECHNOLOGY CO.,LTD	various	10K±2%/B=3950±1%	NR
7	116	Line	ZELONGKANG Electronic Co. Ltd.	2468	300 Vac, 26AWG, 80°C	cURus
			XIEHE Electronic Co. Ltd	2468	300 Vac, 26AWG, 80°C	cURus
			DONGGUAN RI ZHAN HIGH TEMPERATURE WIRE CO LTD	2468	300 Vac, 26AWG, 80°C	cURus
			DONGGUAN BOLI ELECTRONIC CO LTD	2468	300 Vac, 26AWG, 80°C	cURus
6	117	Photoelectric Tip-over Switch	BAI LING ELECTRONICS CO.,LTD.	BL-1250-45	5V 10mA 94V0, 85°C	NR

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

No Unlisted CEC components are used in this report.

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 current-carrying parts and dead-metal parts or low voltage isolated circuits.
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
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. All wiring is minimum 24 AWG, with a minimum rating of 600V, 105°C.
8. Schematics - Refer to Illustration 1 to 4 for schematics requiring verification during Field Representative Inspection Audits.
9. Markings - The product is marked on a labeling system as described in items no. 15 and of Section 4.0 as follows: Applicant's name or brand name, model number, date of manufacture, electrical ratings.
10. Cautionary Markings - The following are required:

Refer to Illustration 5 for Reset Instructions

Refer to Illustration 6 for High Temperature Warning

Refer to Illustration 7 for Hypothermia Warning

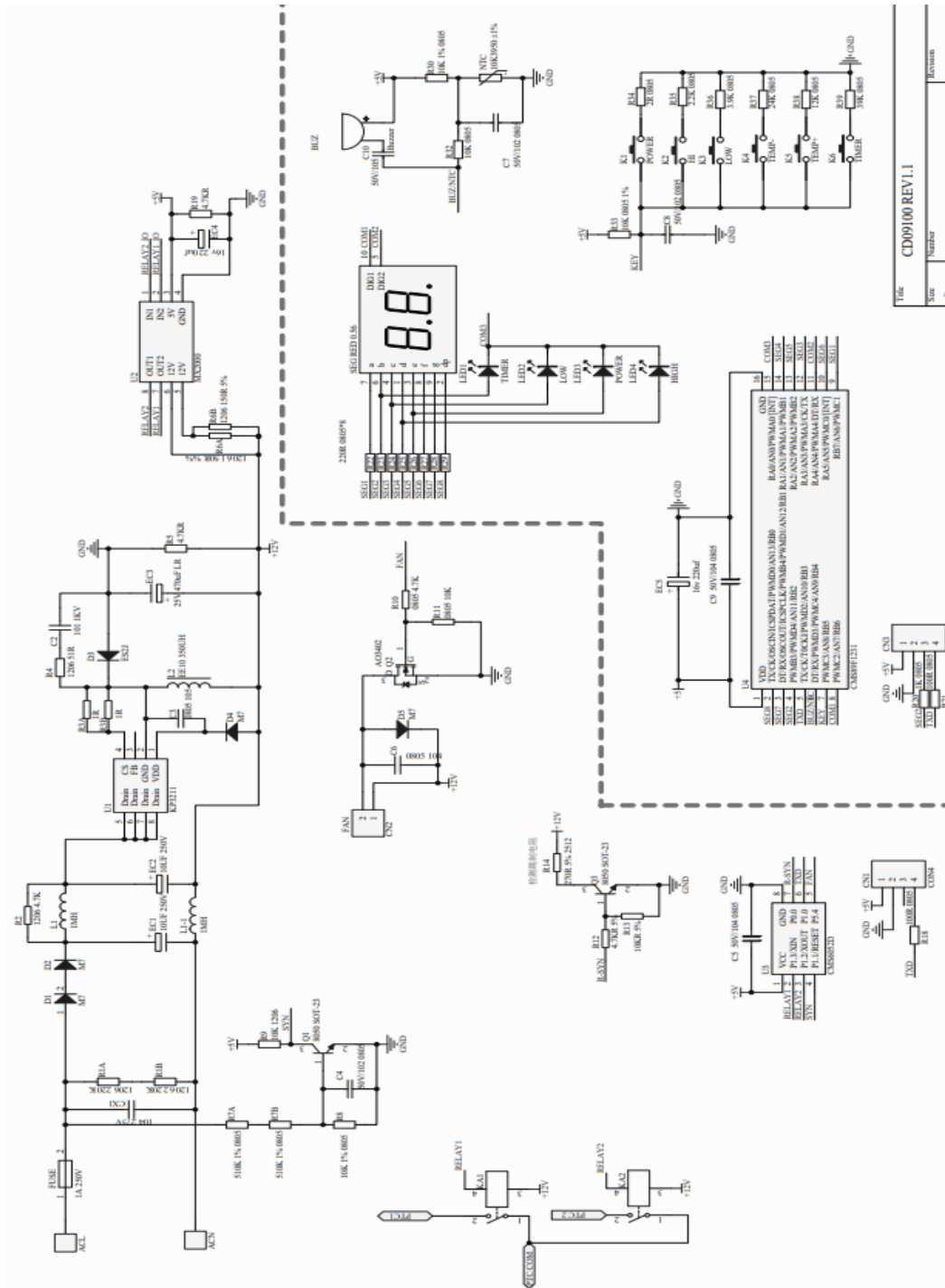
6.0 Critical Features

- 11 Carton Markings - The product shall include the following information pertaining to the heater features and its use conditions. It shall be included on the external surface of the packaging of the heater. All information shall be grouped together and appear on one side, except the bottom of the packaging.

Refer to Illustration 9 for details and wording.

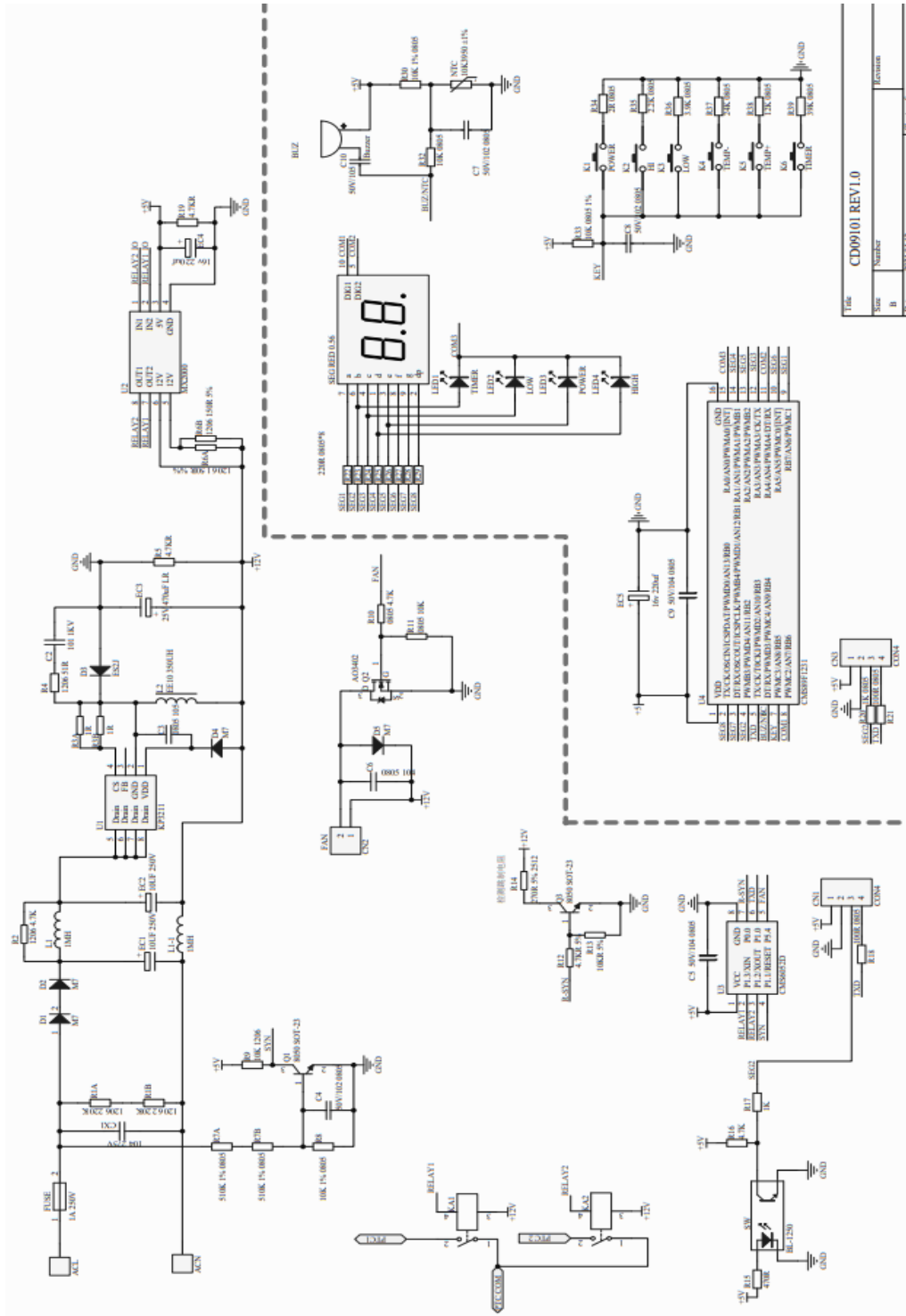
- 12 Installation, Operating and Safety Instructions - Instructions for installation and use of this product are provided by the manufacturer - Manual CD09100_CD09101ES. See Illustration 8

Illustration 1 - Sounds PCB for Model CD09100_Verification of Polarity (Line to Neutral)



7.0 Illustrations

Illustration 2 - Sounds PCB for Model CD09101_Verification of Polarity (Line to Neutral)



7.0 Illustrations

Illustration 3 - Topace PCB for Model CD09100_Verification of Polarity (Line to Neutral)

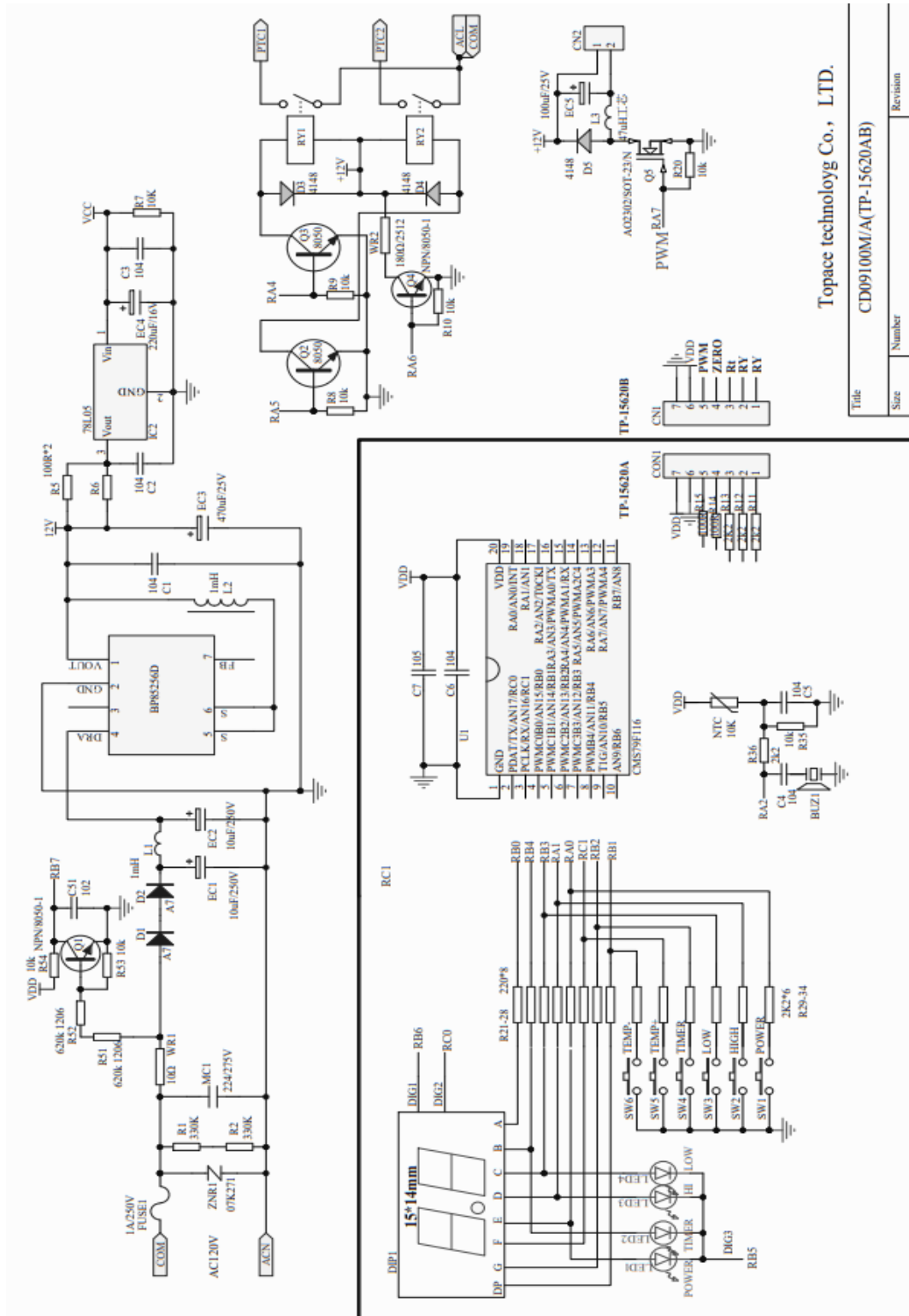
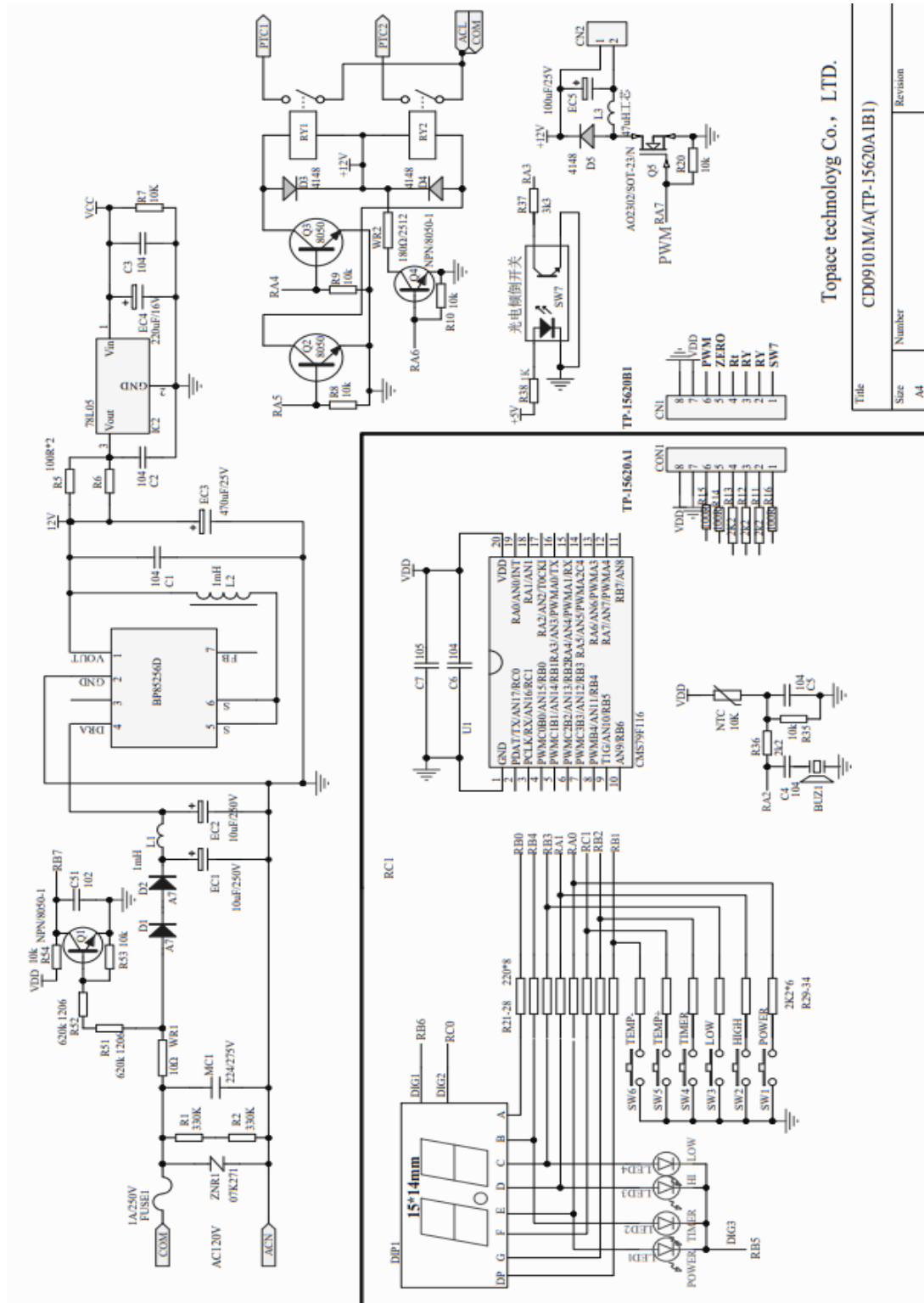


Illustration 4 - Topace PCB for Model CD09101_Verification of Polarity (Line to Neutral)



7.0 Illustrations

Illustration 5 - Markings/Reset Instructions

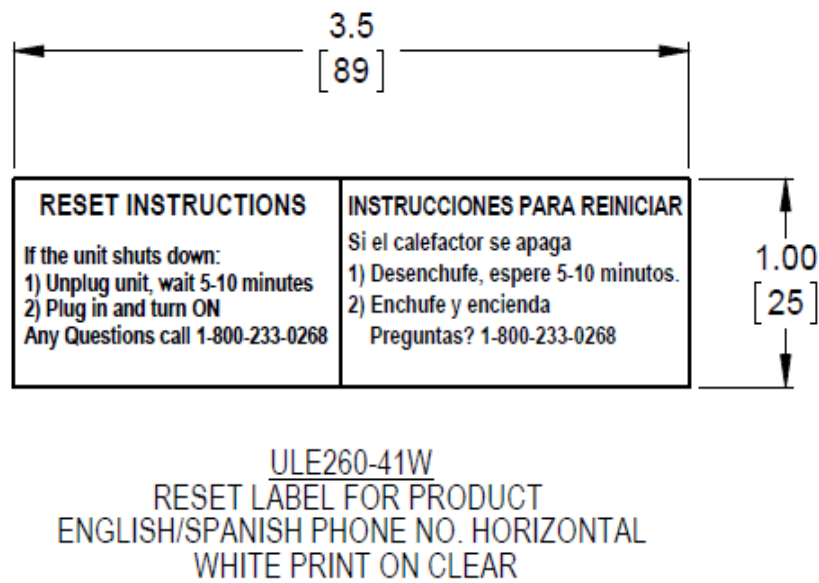
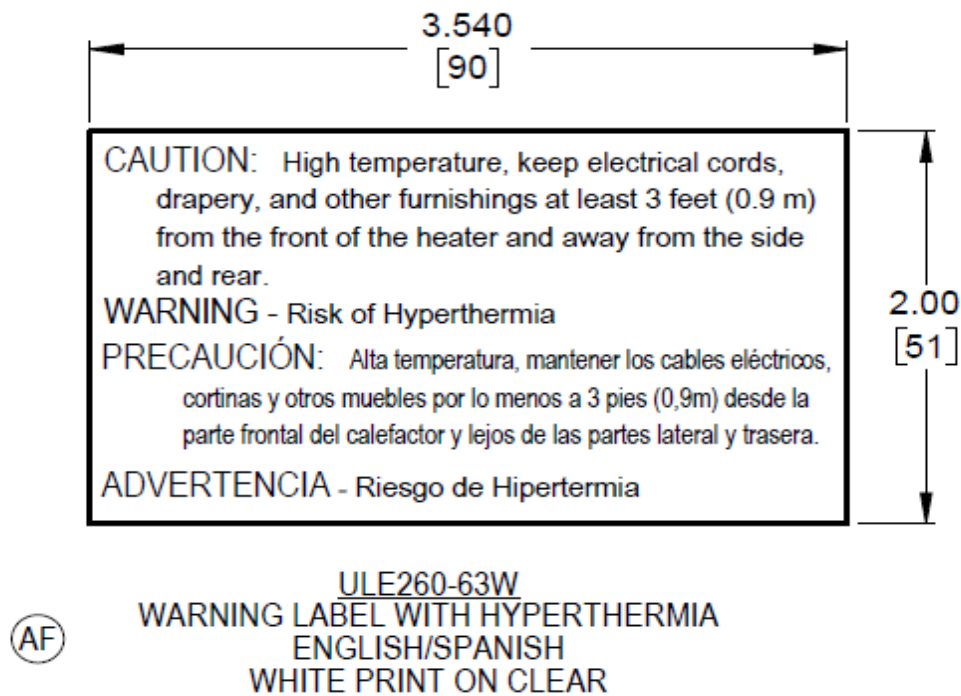


Illustration 6 - Markings/High Temperature Warning



7.0 Illustrations

Illustration 7 - Hypothermia Warning

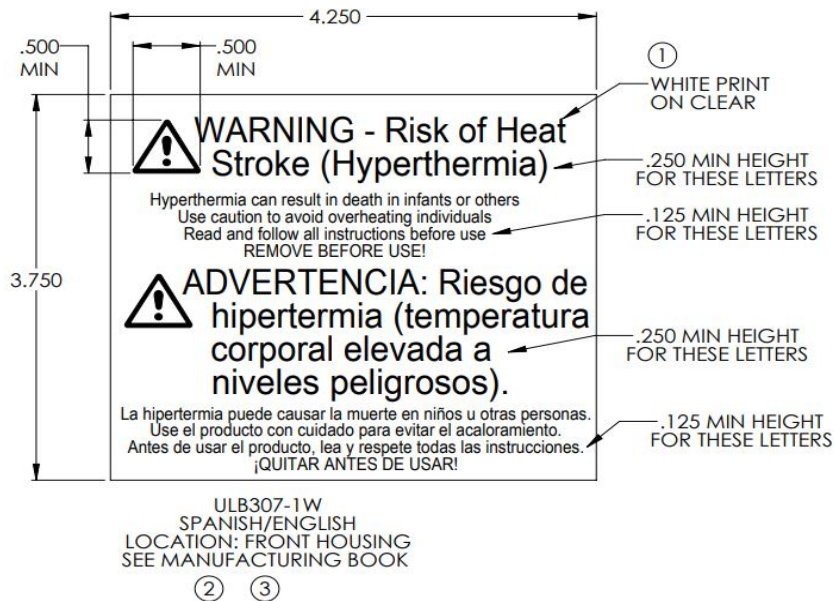
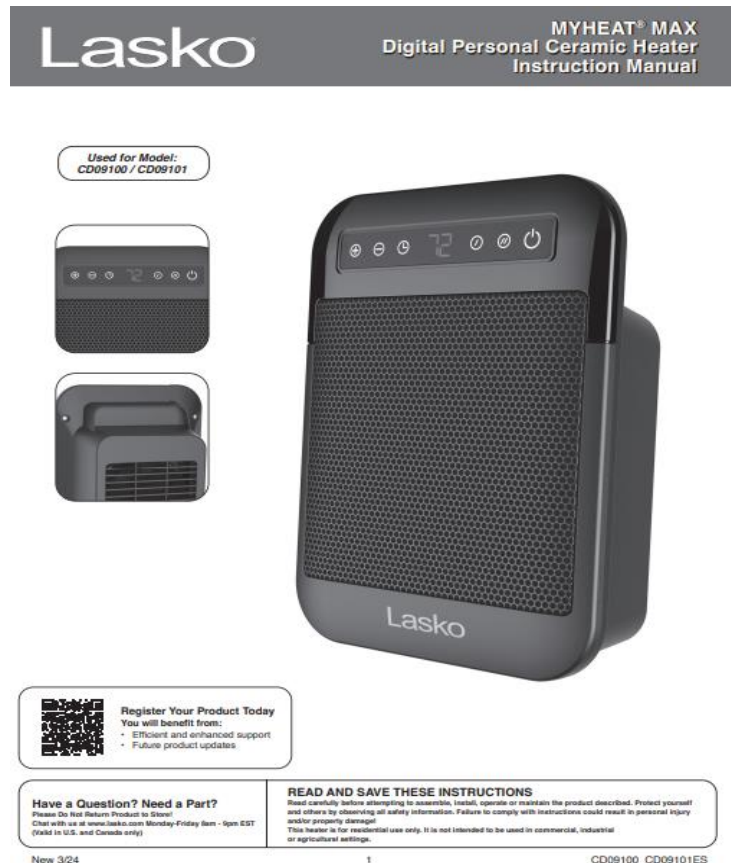
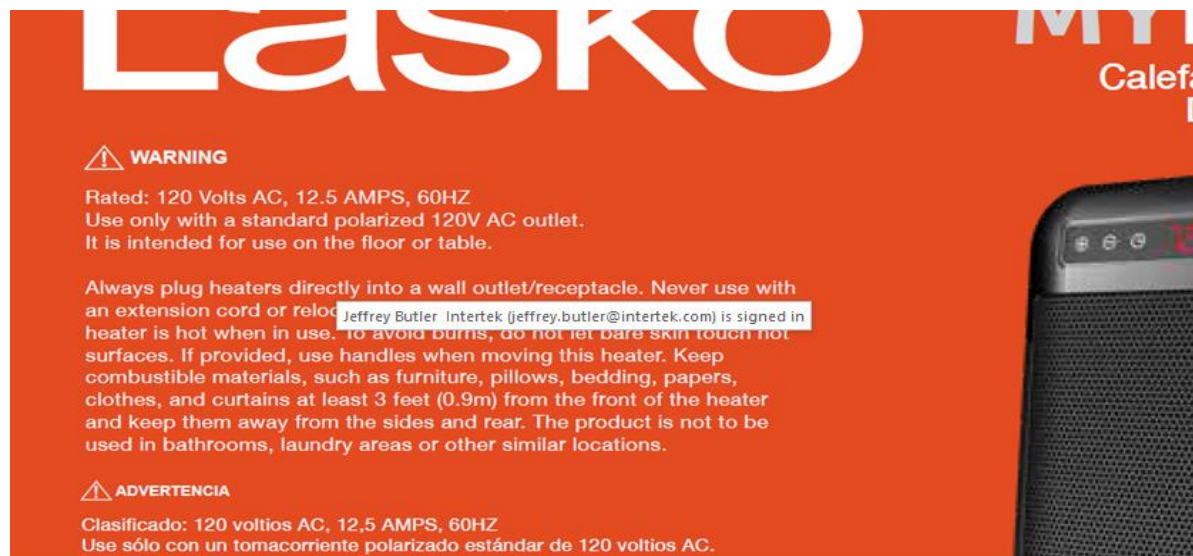


Illustration 8 - Instruction Cover Page



7.0 Illustrations

Illustration 9 - Packaging Markings



8.0 Test Summary					
Evaluation Period	5/1/2024 through 5/30/2024		Project No.	G105855741	
Sample Rec. Date	1-May-2024	Condition	Production	Sample ID.	1,2,3,4,5,6,7,8,9,10
Test Location	Lasko Products, LLC, 820 Lincoln Ave, West Chester, PA 19380				
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			ANSI/UL 1278:2014 Ed.4+R:21Feb2022]	UL 746C:2018 Ed.7+R:24Mar2023	
Leakage Current Test			39		
Power Input Test			38, SC6		
Normal Temperature Test			40, SC7		
Dielectric Voltage Withstand Test			48		
Low Ambient Temperature Starting Test: Movable SC Room Heaters			SC8		
Component Failure Test			47		
Abnormal Operation Test - Restricted Inlet			SC9		
Abnormal Operation Test - Overvoltage & Extreme Operating Voltage (maximum) Test			42.2		
Abnormal Operation Test - Stalled Fan/Stalled Motor Test			42.3		
Abnormal Operation Test - Tip Over Test (moveable Heaters)			42.4		
Abnormal Operation Test - Vertical-Wall Test (Moveable Heaters)			42.5		
Abnormal Operation Test - Terry Cloth Drape Test			42.6		
Abnormal Operation Test - Terry Cloth Band Drape Test (Moveable Heaters)			42.7		
Insulation Resistance Test			49		
Stability of Moveable Heaters Test			51		
Element Support Impact Tests - Without Accessible Dead Metal Parts			52		
Impact Polymeric Materials Test			12.2	56	
Strain Relief Test			59	29, 61.2	
Push Back Strain Relief Test			16.13	29, 61.2	
Mold Stress Relief Distortion Test			9.4	29, 61.2	
Strain Relief Test Following Mold Stress Relief Distortion			59	29c, 61.2	
Drop Test			53		

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:	Jeff Butler	Reviewed by:	Russell Ransom
Title:	Engineer	Title:	Reviewer
Signature:	Signature on file	Signature:	Signature on file

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 Avenue West Chester, PA 19380-4469
Country	USA
Product	Portable 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, Tip Over 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:

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

11.1 Tip Over Test

One hundred percent of production of the products covered by this Report shall be subjected to the test. The manufacturer shall test each heater that employs a tip-over switch to determine that the switch functions as intended after assembly in the heater. The heater shall be energized during this test.

Products Requiring Tip Over Test:

Product

Model CD09101

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
26-Jul-2024	J Butler 	4	3	Changed "RFB044E" to "RFB044E/1K5"
G105855741CRT	R Ransom 	4	3	Added "RFB-120-1500, 120V~ 60Hz 1500W, 230°C max Operating Temp, cURus"
		4	13	Changed "ZHONG SHAN YONG ROI ELECTRIC FACTORY CO LTD, 1015, 24AWG 600V VW-1 105°C, cURus" to "Various, 1007, 24AWG, 300V, 80°C, cURus"
		4	13	Deleted "GUANG DONG XIN LONG ENTERPRISE CO, 1015, 24AWG 600V VW-1 105°C, cURus"
		4	20	Changed "Guangdong Jinggang Electronic Technology Co.,Ltd, MKP, 275V, 104K, 110°C (310/350/380 Vac), cURus" to "Guangdong Jinggang Electronic Technology Co.,Ltd, MKP, 104K, 110°C (310/350/380 Vac), cURus"
		4	20	Changed "Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd, MPX, 310/350/380 Vac, 104K, 110°C, cURus" to "Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd, MPX, 275V, 104K, 110°C (275/305/310/330/350 Vac, cURus"
		4	50a	Added "SMD Resistor (not shown), GUANGDONG FENGHUA ADVANCED TECHNOLOGY HOLDING CO.,LTD, 0805, 1KR ±5%, 150°C only used on Sounds PCB in Model CD09101, NR"
		3	4	Changed callout 51 to callout 52
		3	4	Changed callout 52 to callout 53
		3	4	Changed callout 53 to callout 54
		3	4	Changed callout 54 to callout 55
		3	4	Changed callout 55 to callout 56
		3	7	Changed callout 106 to callout 105