

1.0 Reference and Address			
Report Number	210201172GZU-001	Original Issued: 25-Jun-2021	Revised: 7-Aug-2024
Standard(s)	Household Electric Coffee Makers and Brewing-Type Appliances [UL 1082:2009 Ed.6+R:03Mar2023] Safety of Household and Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2] Household and Similar Electrical Appliances - Safety - Part 2-15: Particular Requirements for Appliances for Heating Liquids [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1;A2]		
Applicant	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD	Manufacturer 1	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD
Address	Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province	Address	Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province
Country	China	Country	China
Contact	Mandy Tang	Contact	Mandy Tang
Phone	0757-25331046	Phone	0757-25331046
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Email	mandytang@donlim.com	Email	mandytang@donlim.com
Manufacturer 2	Foshan City Shunde District Donlim Intelligent Electrical Appliances Technology Co., Ltd.		
Address	NO.26 Shunye East Road, Xingtan Town, Shunde District, FOSHAN CITY, Guangdong Province		
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2.0 Product Description	
Product	Coffee Maker
Brand name	Xin Bao, Brewsly, Wirsh, FRESKO, CASABREWS, Gevi, kcb, Cyetus, Laekerrt, Calphalon, Aiosa, Kismile, COWSAR.
Description	The product covered by this report is Coffee Maker for household and indoors use only, provided with a non-detachable power supply cord terminated in a 2-wire polarized type plug.
Models	CM5418-UL, CM001, CM5418BC-UL, CM5418E-UL, CM5418GA-UL, CM5418I-UL, GECME418E-U, KC5418, CMEP02, CM5706-UL, CM5706A-UL, CM5432-UL, CMEP04, CM5418IA-UL, CM5418EA-UL, ECMA0SS0A1, ECMA0SS0A2, CM5418M-UL, ECMB0, CM5418 BASIC, ECMGO, CM8032S. BVCLECM-PMPMN may be followed by fourteen characters. BVCLECM-PMPMNG may be followed by fourteen characters.
Model Similarity	Model CM001 is identical with CM5418-UL, except model number and brand name. Model CM5418BC-UL is identical with CM5418-UL, except Power PCB, Control PCB, Button location and CM5418BC-UL employed with a Pressure Gauge. CM5418E-UL is identical with CM5418-UL, except CM5418E-UL employed with a Thermostat and a Pressure Gauge. GECME418E-U is identical with CM5418E-UL, except model number and brand name. KC5418 is identical with CM5418-UL, except model number and brand name. CM5418GA-UL is identical with CM5418-UL, except Decoration Sheet and CM5418GA-UL without indicator light in Top Housing. CMEP02 is identical with CM5418GA-UL, except model number and brand name. CM5706A-UL is identical with CM5418E-UL, except Power PCB, Control PCB, Button location. CM5706-UL is identical with CM5706A-UL, except CM5706-UL without a Pressure Gauge. BVCLECM-PMPMN may be followed by fourteen characters are identical with CM5706-UL, except model number and brand name. BVCLECM-PMPMNG may be followed by fourteen characters are identical with CM5706A-UL, except model number and brand name. CM5418I-UL is identical with CM5418GA-UL, except Power PCB, Control PCB and Control Panel. CM5432-UL is identical with CM5418-UL, except shape of enclosure, Water Boiler, Main Housing material, Top Housing material and CM5432-UL employed Combination PCB replace Power PCB and Control PCB. CMEP04 is identical with CM5432-UL, except model number and brand name. CM5418IA-UL is identical with CM5418I-UL, except Decoration Sheet, Funnel Handle Decoration Sheet and Knob. CM5418EA-UL is identical with CM5418E-UL, except appearance and Steam Tube. ECMA0SS0A1 and ECMA0SS0A2 are identical with CM5418EA-UL, except model number and brand name. CM5418M-UL is identical with CM5418BC-UL, except Power PCB, Control PCB and CM5418M-UL without Flowmeter, Pressure Gauge. ECMB0 is identical with CM5418BC-UL, except model number and brand name. CM5418 BASIC is identical with CM5418M-UL, except model number and brand name. ECMGO is identical with CM5418E-UL, except model number and brand name. CM8032S is identical with CM5432-UL, except model number and brand name.
Ratings	120V, 60Hz, 1350W.
Other Ratings	NA

3.0 Product Photographs

Photo 1 - External view of model CM5418-UL

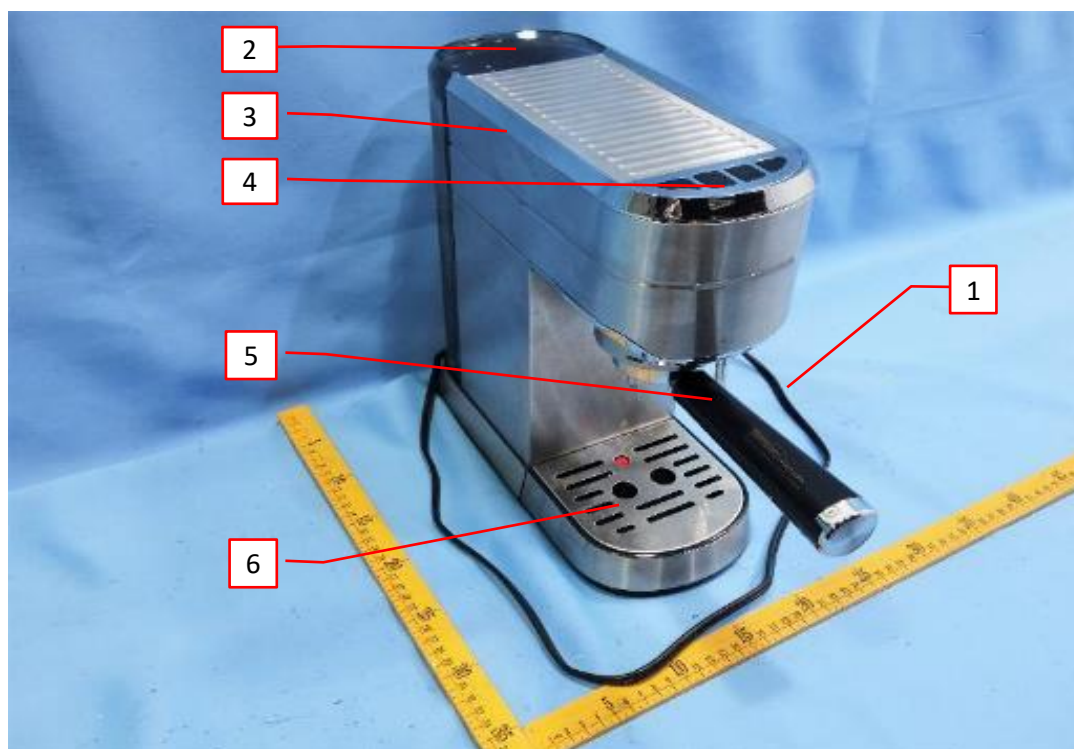


Photo 2 - External view of model CM5418-UL

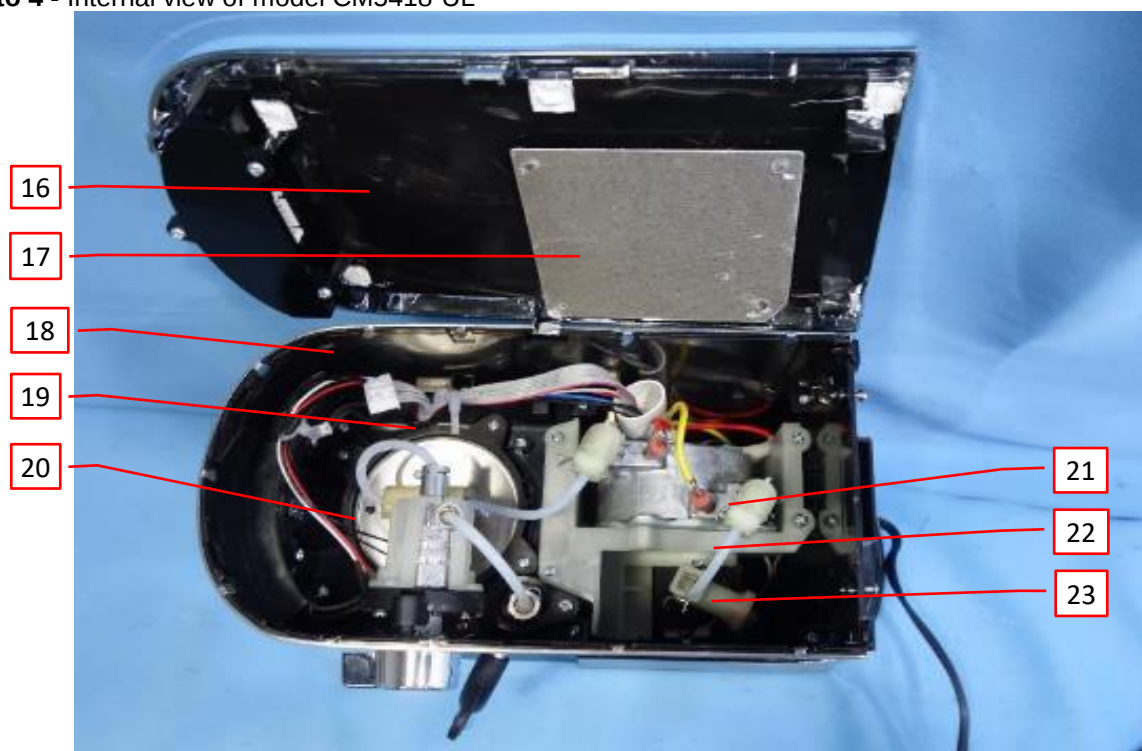


3.0 Product Photographs

Photo 3 - Internal view of model CM5418-UL



Photo 4 - Internal view of model CM5418-UL

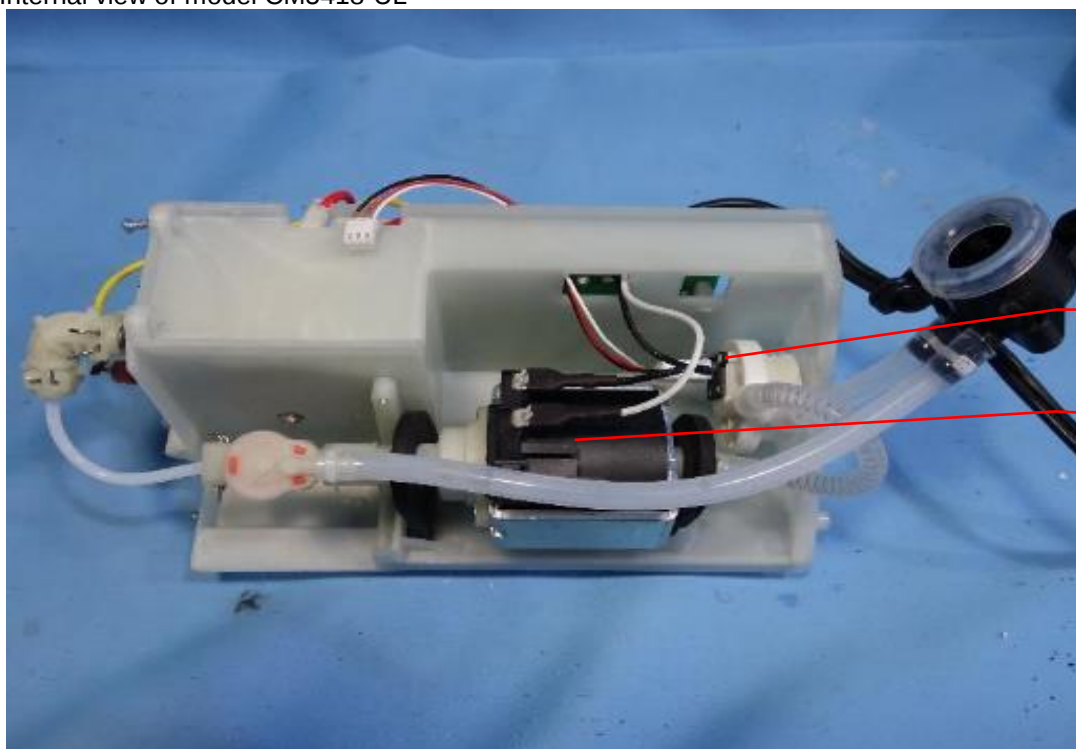


3.0 Product Photographs

Photo 5 - Internal view of model CM5418-UL



Photo 6 - Internal view of model CM5418-UL



3.0 Product Photographs

Photo 7 - Internal view of model CM5418-UL

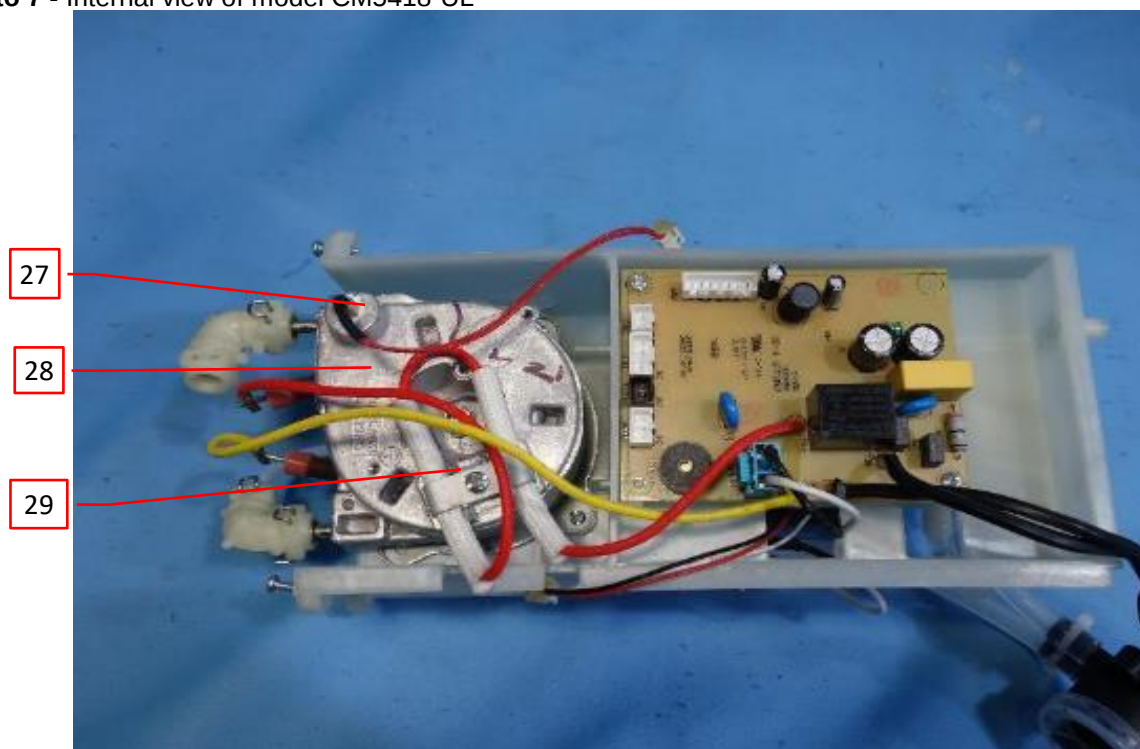
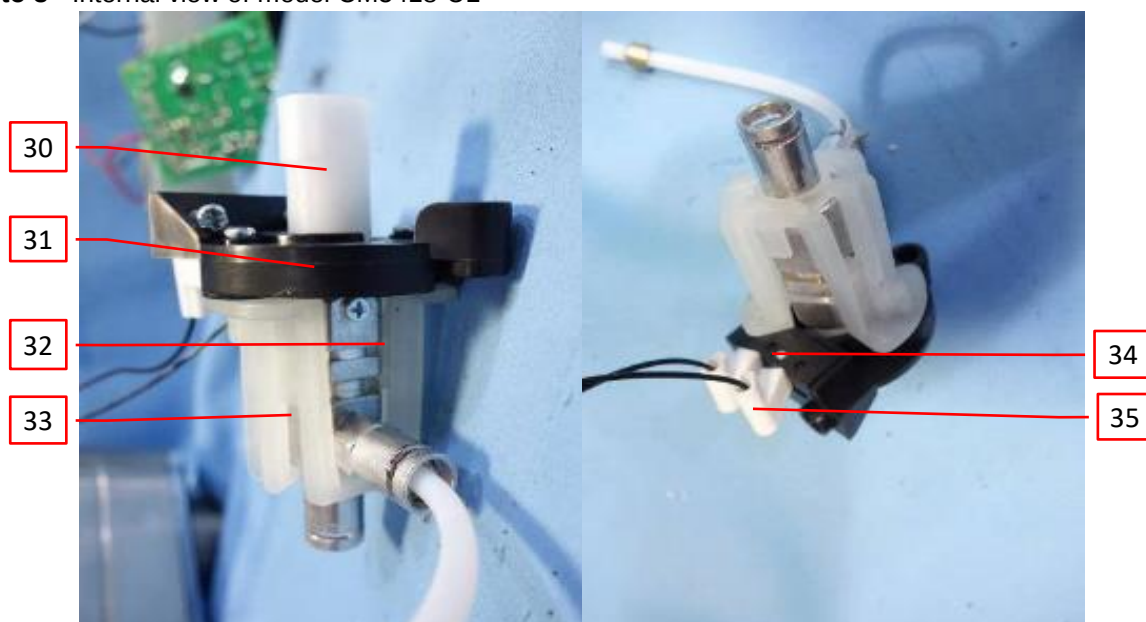


Photo 8 - Internal view of model CM5418-UL



3.0 Product Photographs

Photo 9 - Internal view of model CM5418-UL with Hongsheng PCB

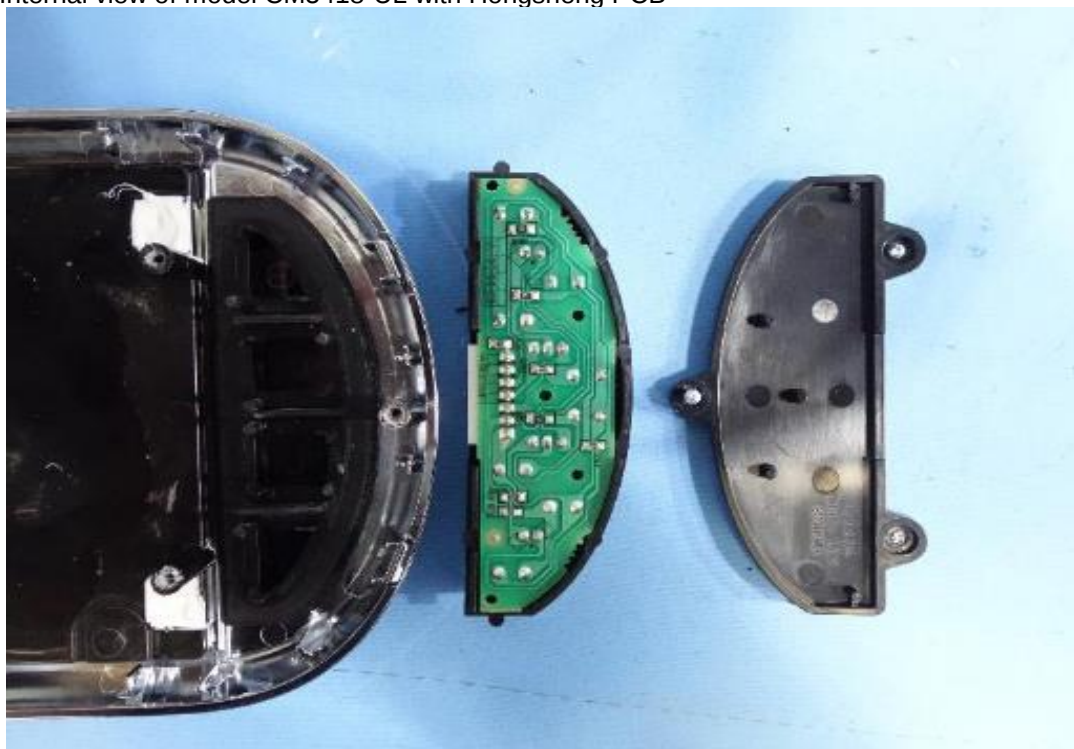
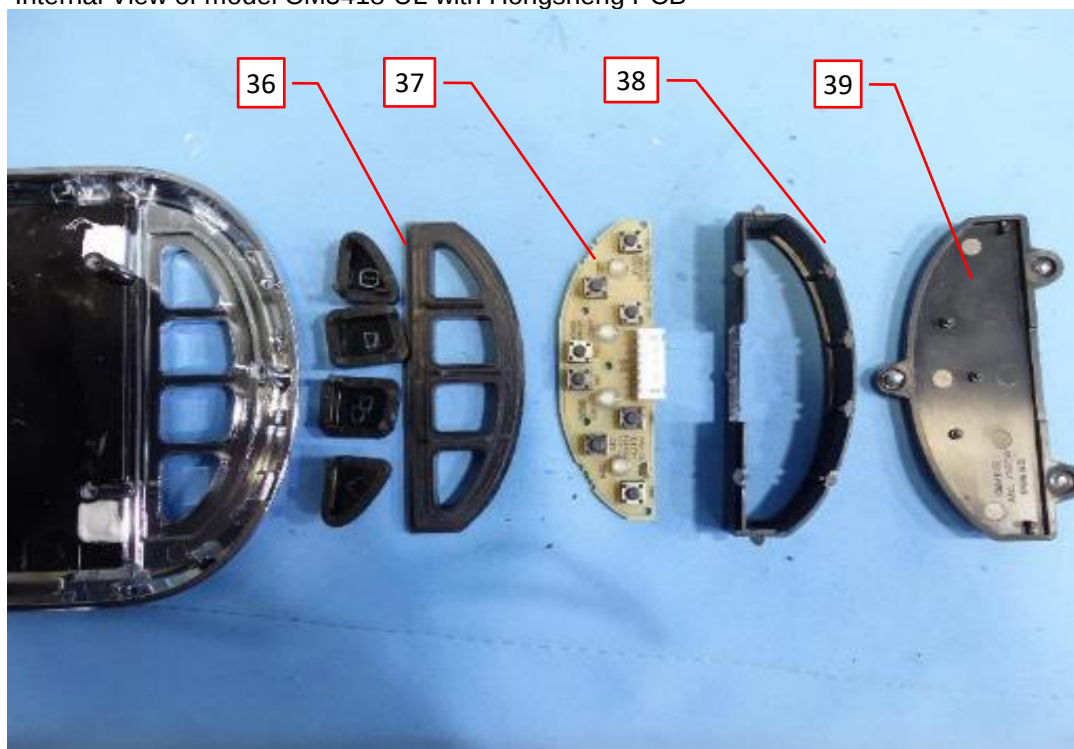


Photo 10 - Internal View of model CM5418-UL with Hongsheng PCB



3.0 Product Photographs

Photo 11 - View of Power PCB for Hongsheng PCB

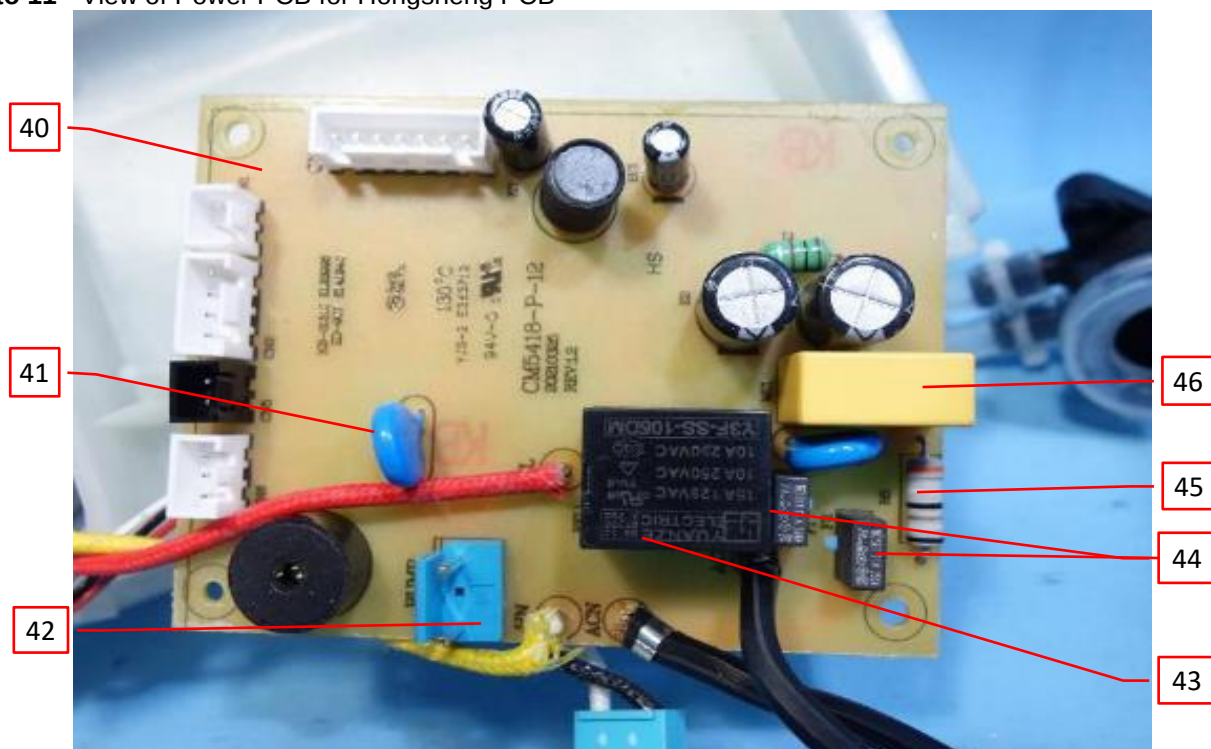
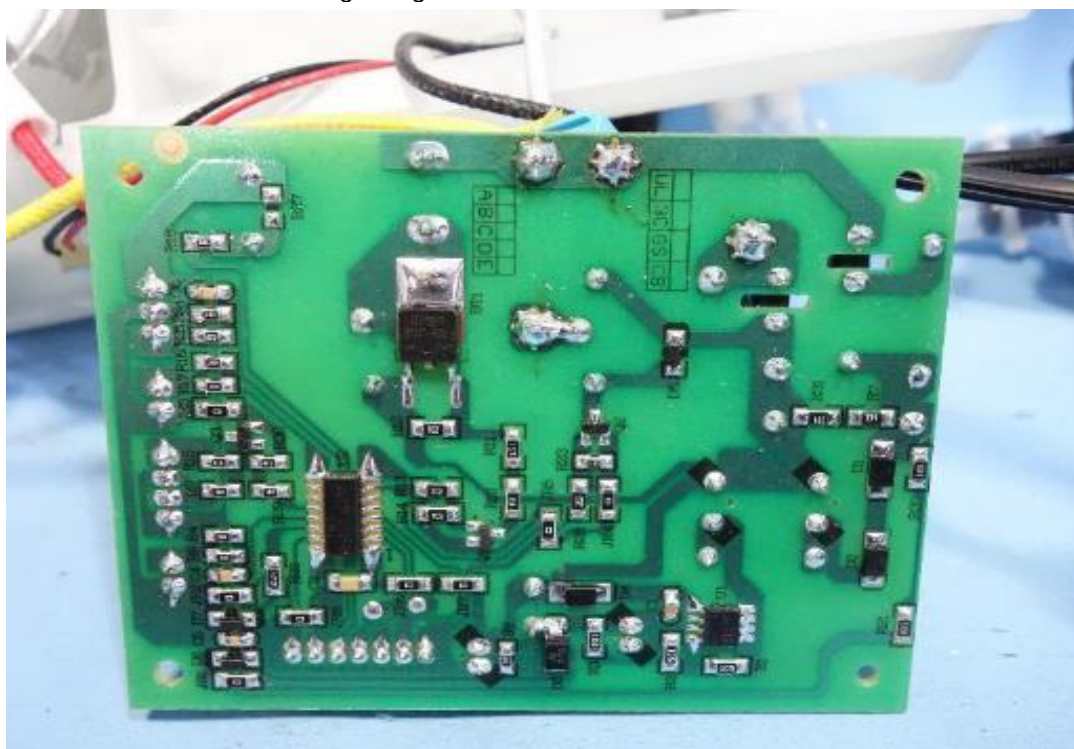


Photo 12 - View of Power PCB for Hongsheng PCB



3.0 Product Photographs

Photo 13 - Internal View of model CM5418-UL

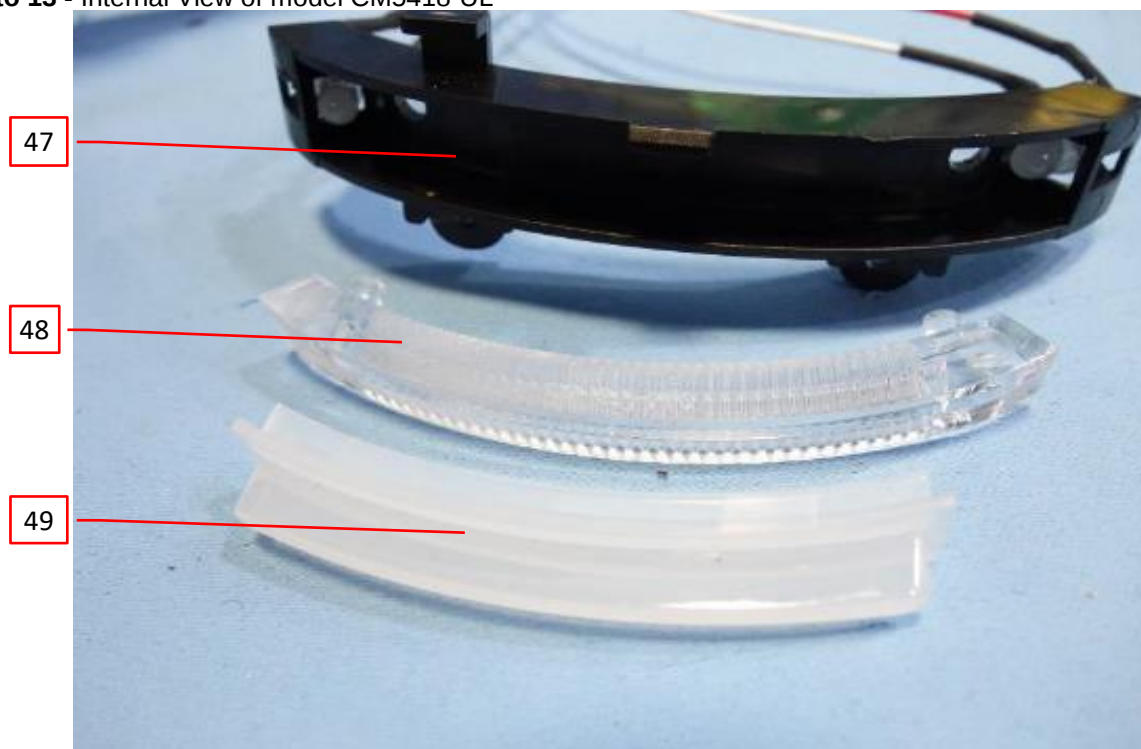
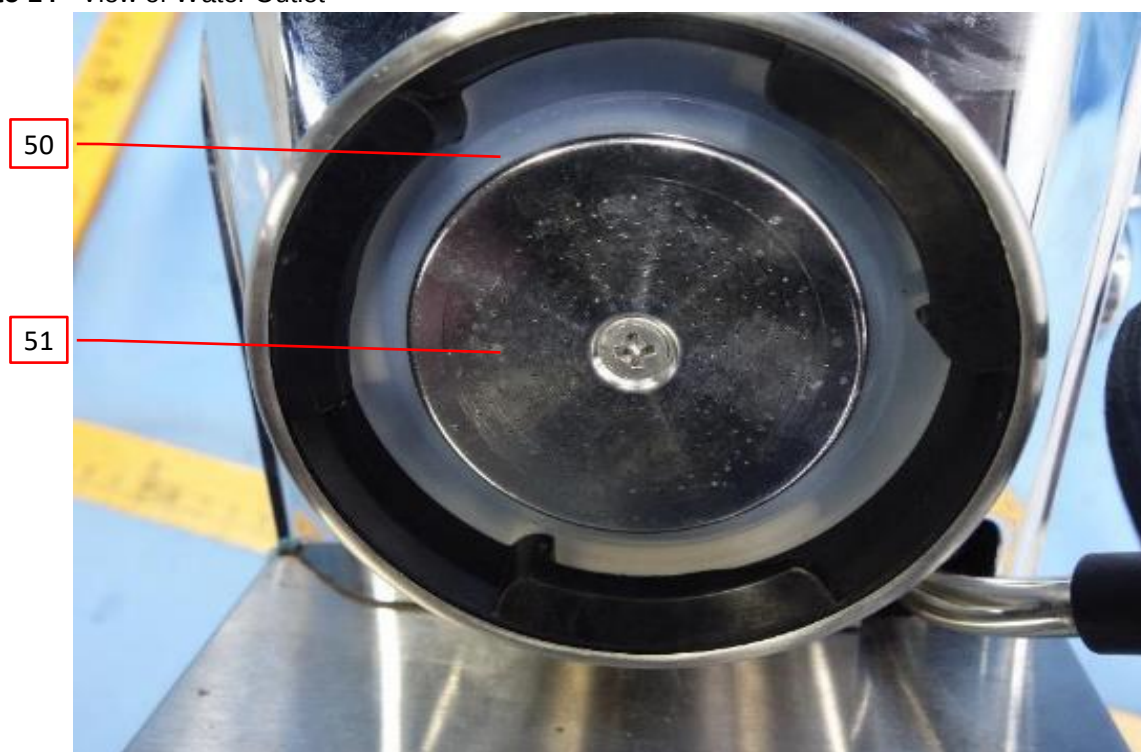


Photo 14 - View of Water Outlet



3.0 Product Photographs

Photo 15 - View of Optional Power PCB for XinBao PCB

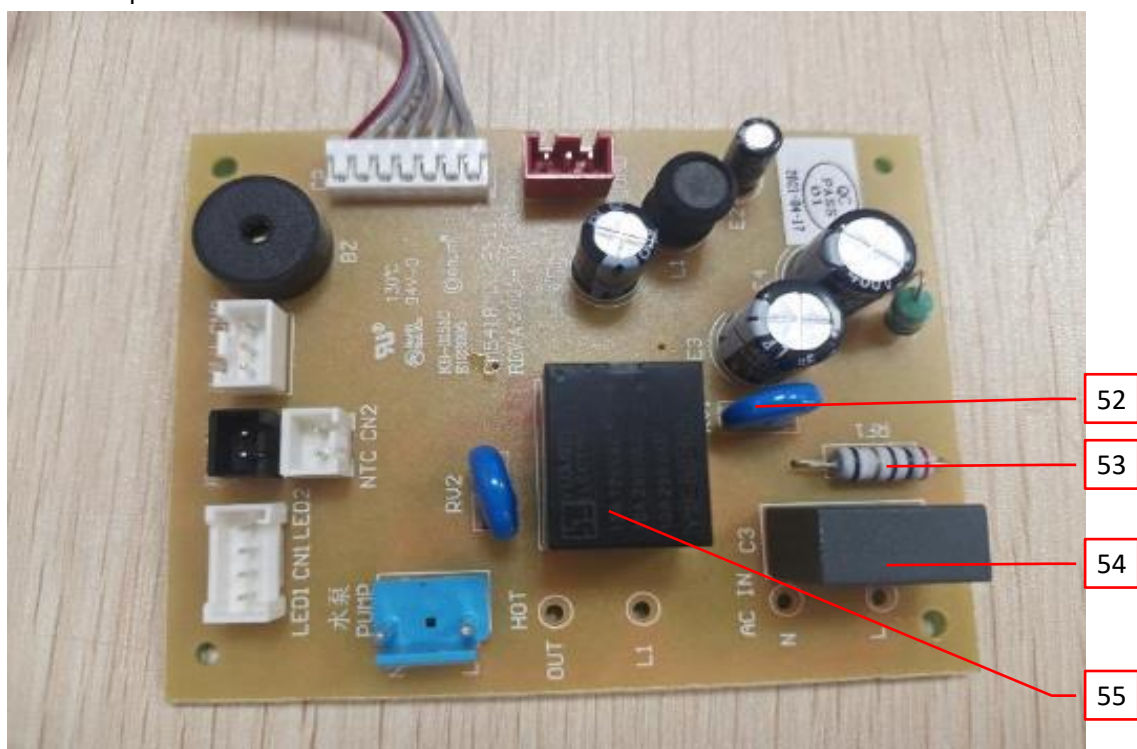


Photo 16 - View of Optional Power PCB for XinBao PCB



3.0 Product Photographs

Photo 17 - View of Optional Control PCB for XinBao PCB

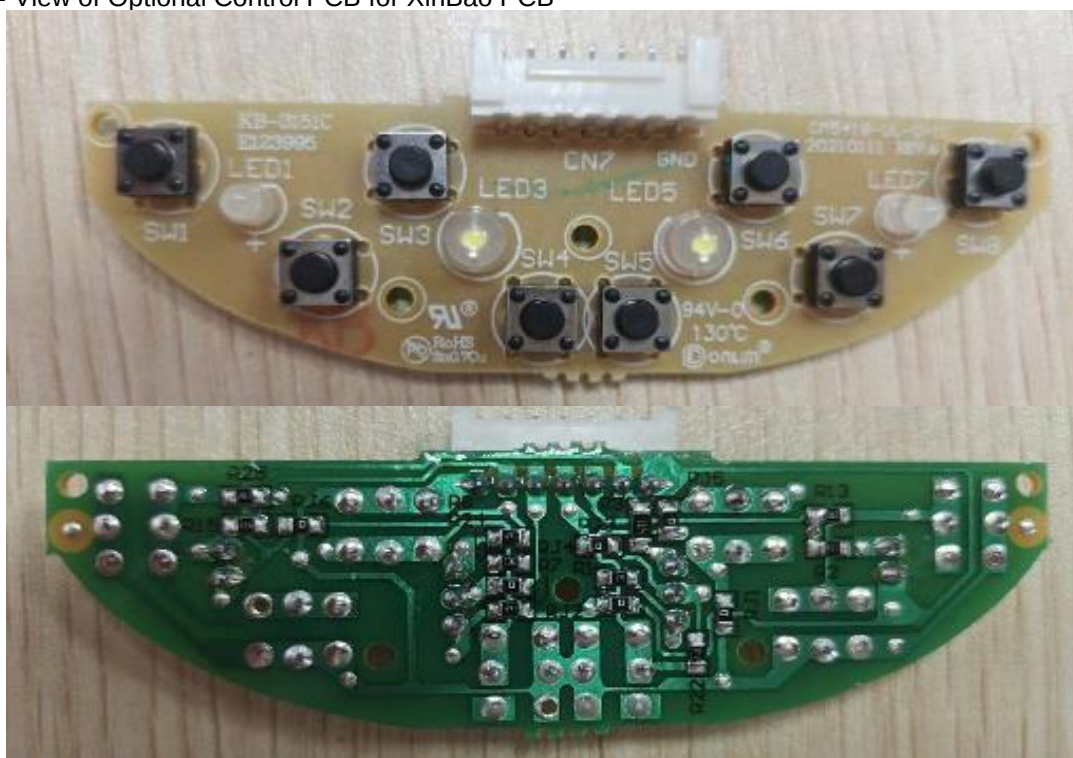


Photo 18 - External view of model CM5418BC-UL



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Photo 19 - Internal view of model CM5418BC-UL

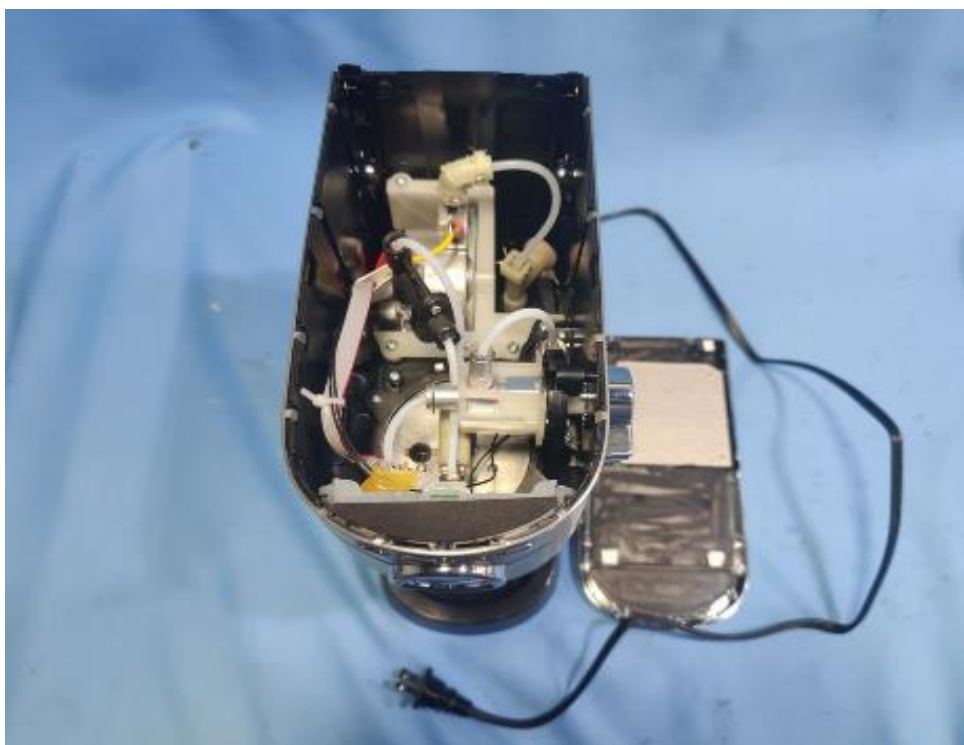
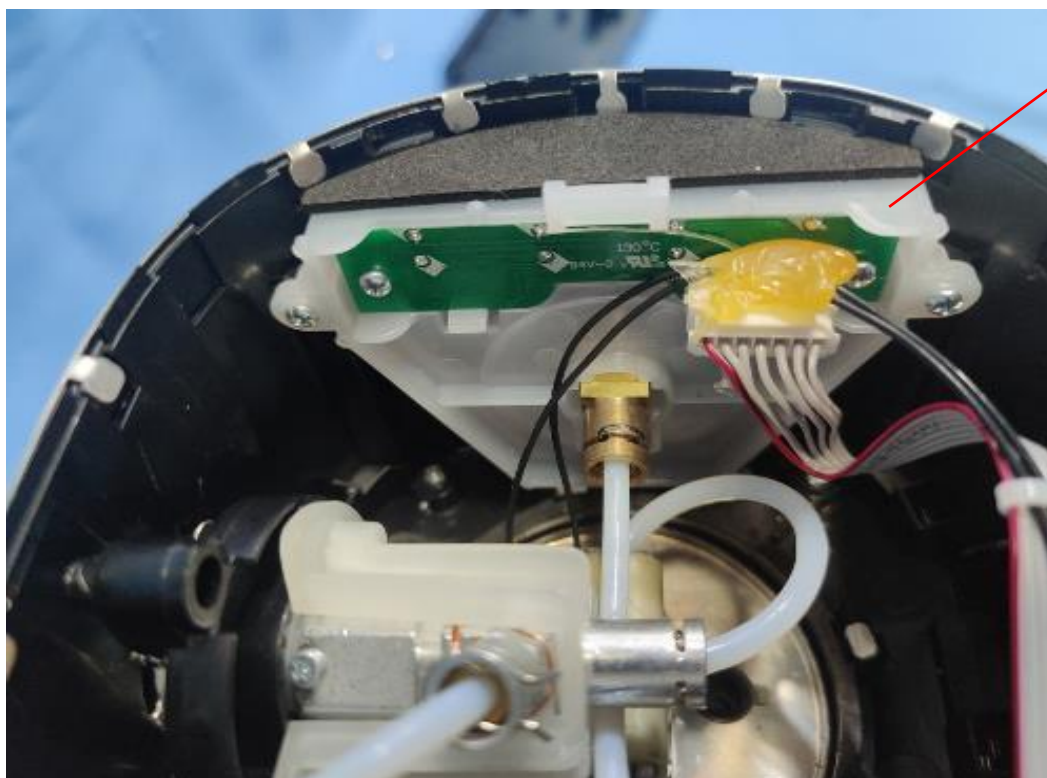


Photo 20 - Internal view of model CM5418BC-UL



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3.0 Product Photographs**Photo 21** - Internal view of model CM5418BC-UL

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Photo 22 - Power PCB view of model CM5418BC-UL

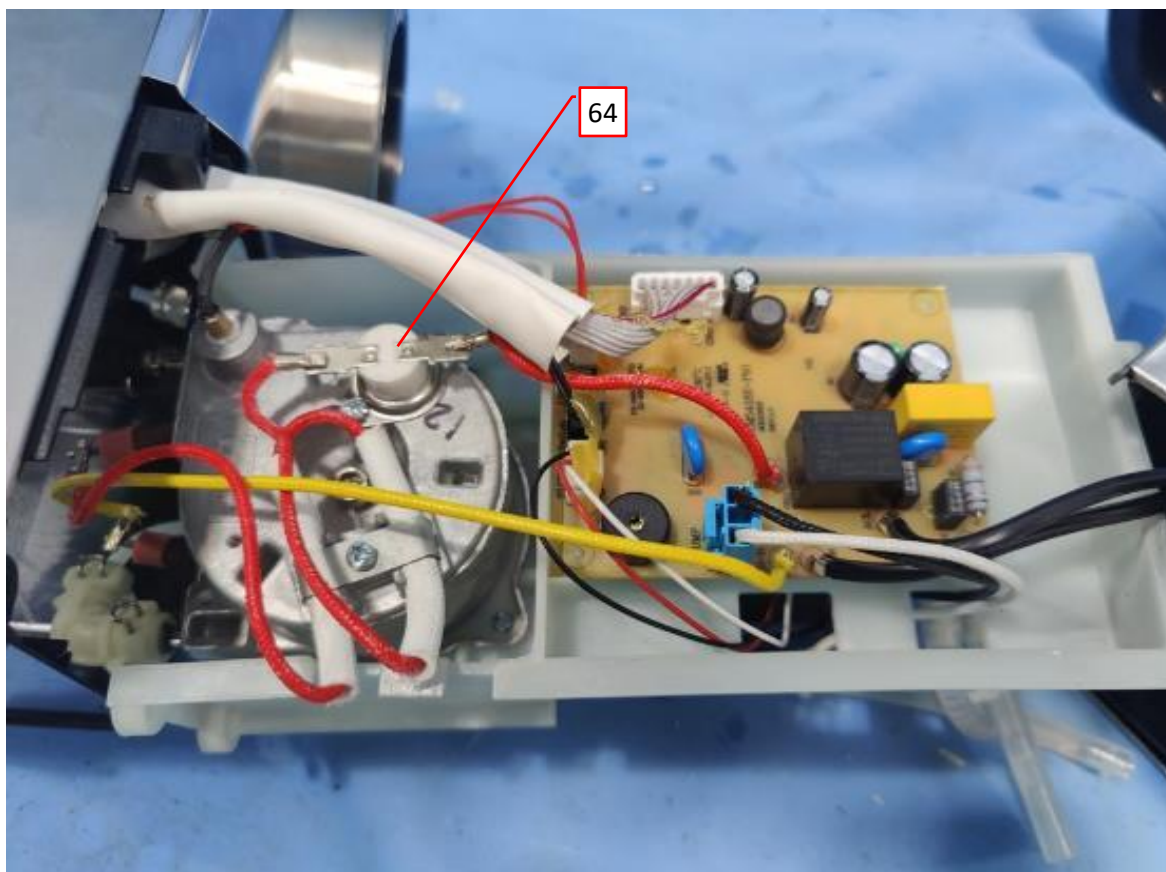


3.0 Product Photographs

Photo 23 - External view of model CM5418E-UL



Photo 24 - Internal view of model CM5418E-UL



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Photo 25 - Power PCB view of model CM5418E-UL

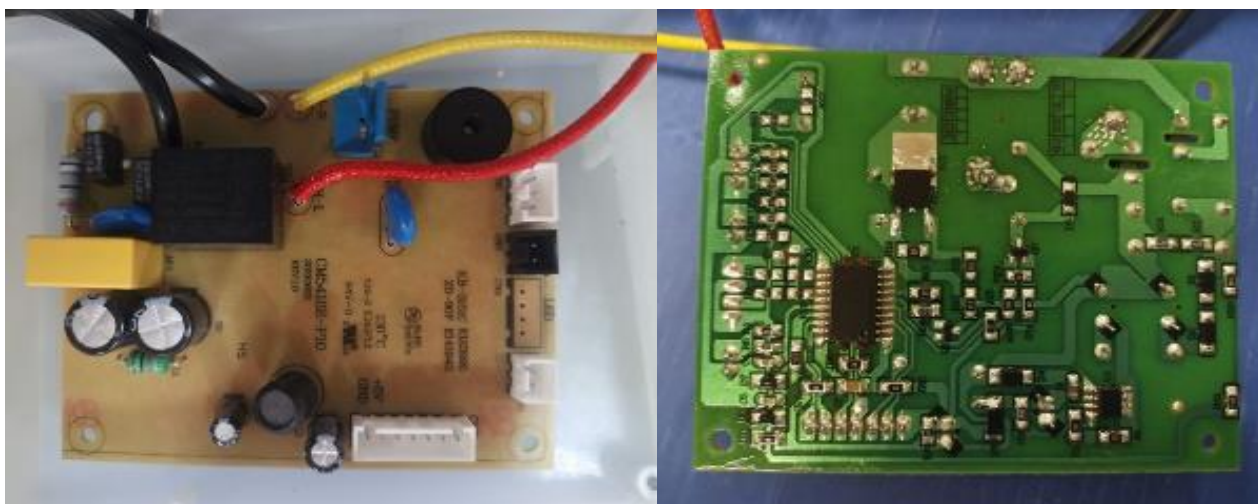
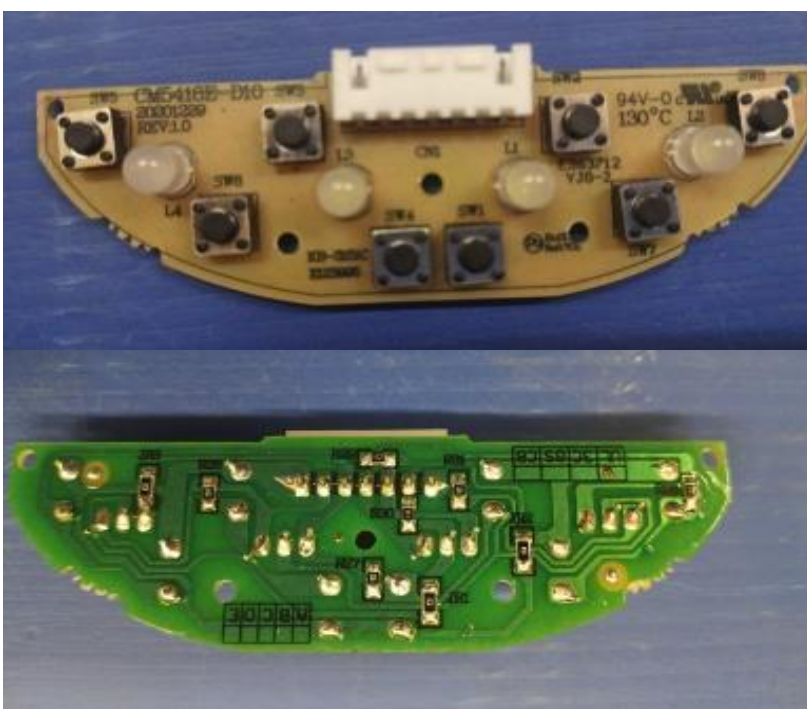


Photo 26 - Control PCB view of model CM5418E-UL

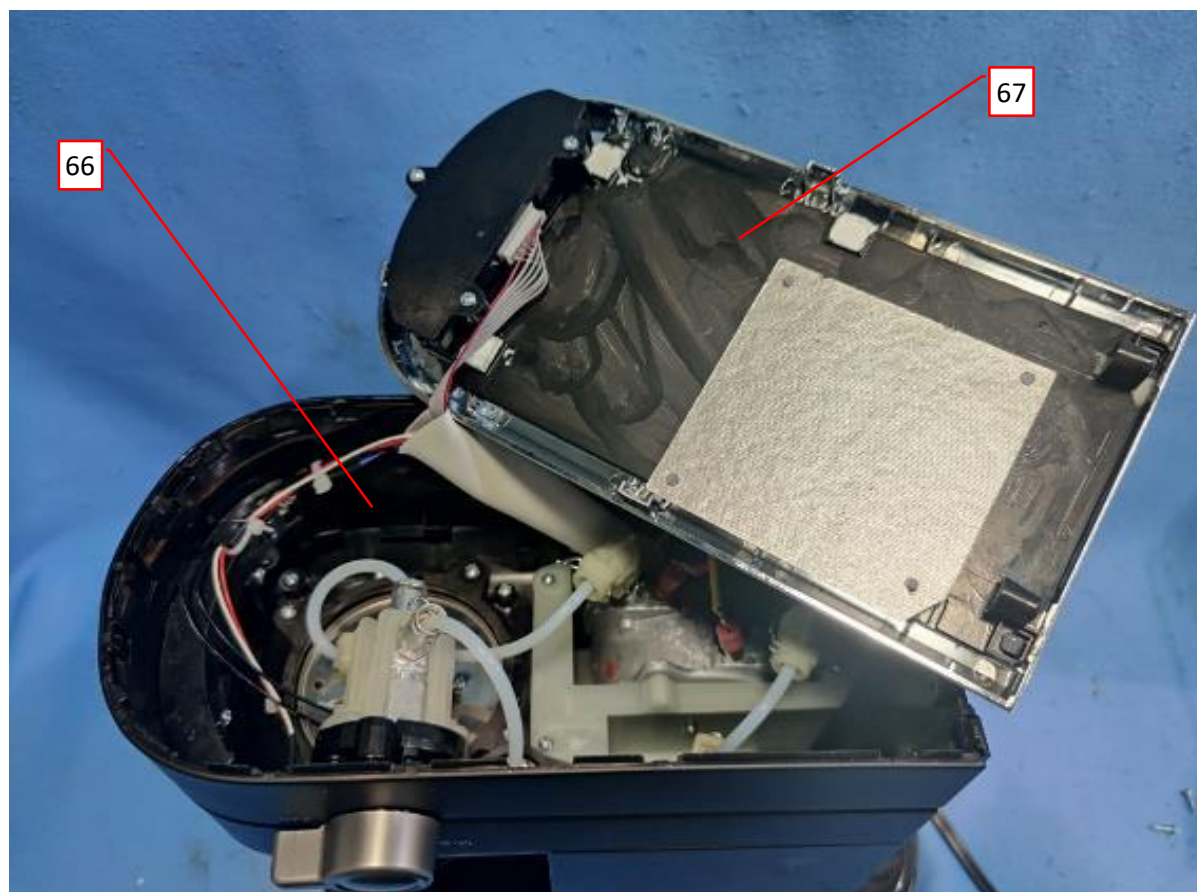


3.0 Product Photographs

Photo 27 - Optional construction for all models (Employed Main Housing 2, Top Housing 2 and Insulation Plate)



Photo 28 - Optional construction for all models (Employed Main Housing 2, Top Housing 2 and Insulation Plate)



3.0 Product Photographs

Photo 29 - Optional construction for all models (Employed Main Housing 2, Top Housing 2 and Insulation Plate)

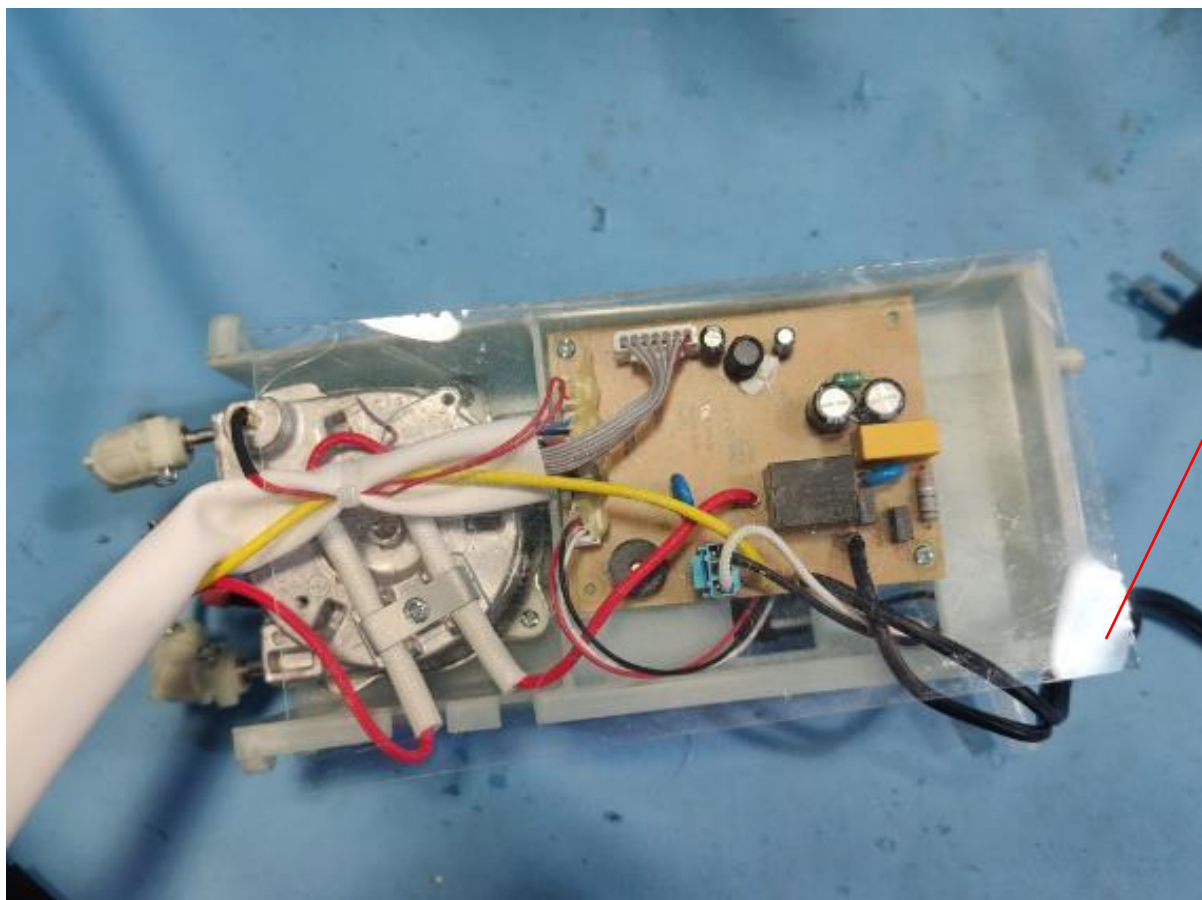


Photo 30 - External view of model CM5418GA-UL



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Photo 31 - Internal view of model CM5418GA-UL

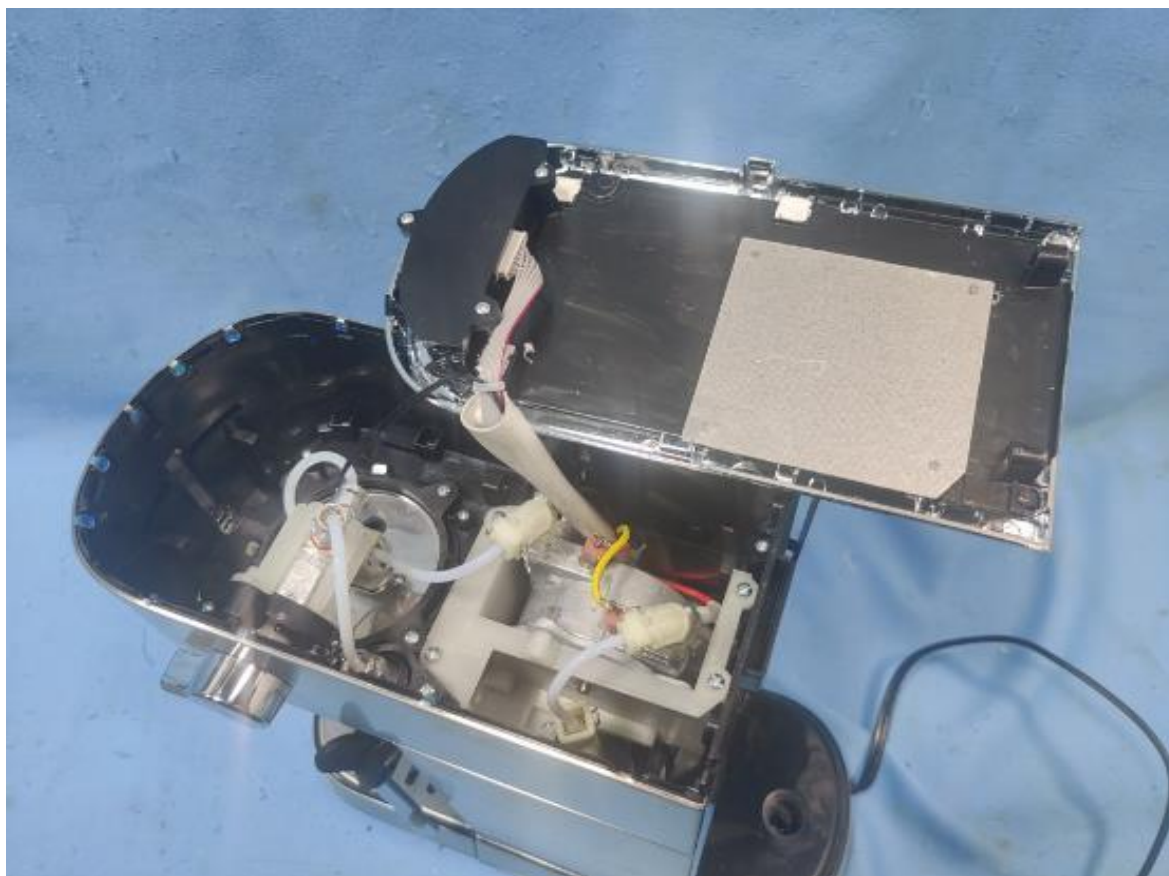


Photo 32 - External view of model CM5706A-UL



3.0 Product Photographs

Photo 33 - External view of model CM5706A-UL



Photo 34 - Internal view of model CM5706A-UL

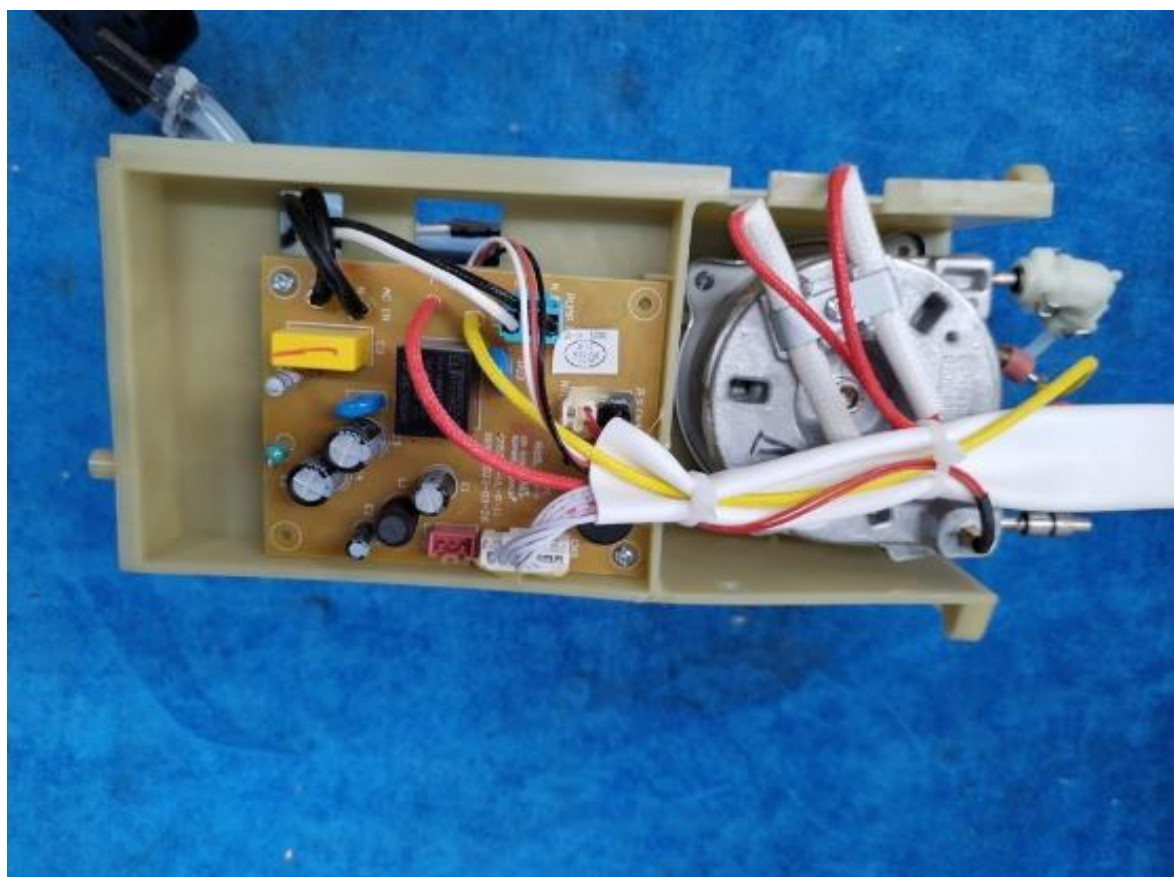


3.0 Product Photographs

Photo 35 - Internal view of model CM5706A-UL



Photo 36 - Internal view of model CM5706A-UL



3.0 Product Photographs

Photo 37 - Internal view of model CM5706A-UL

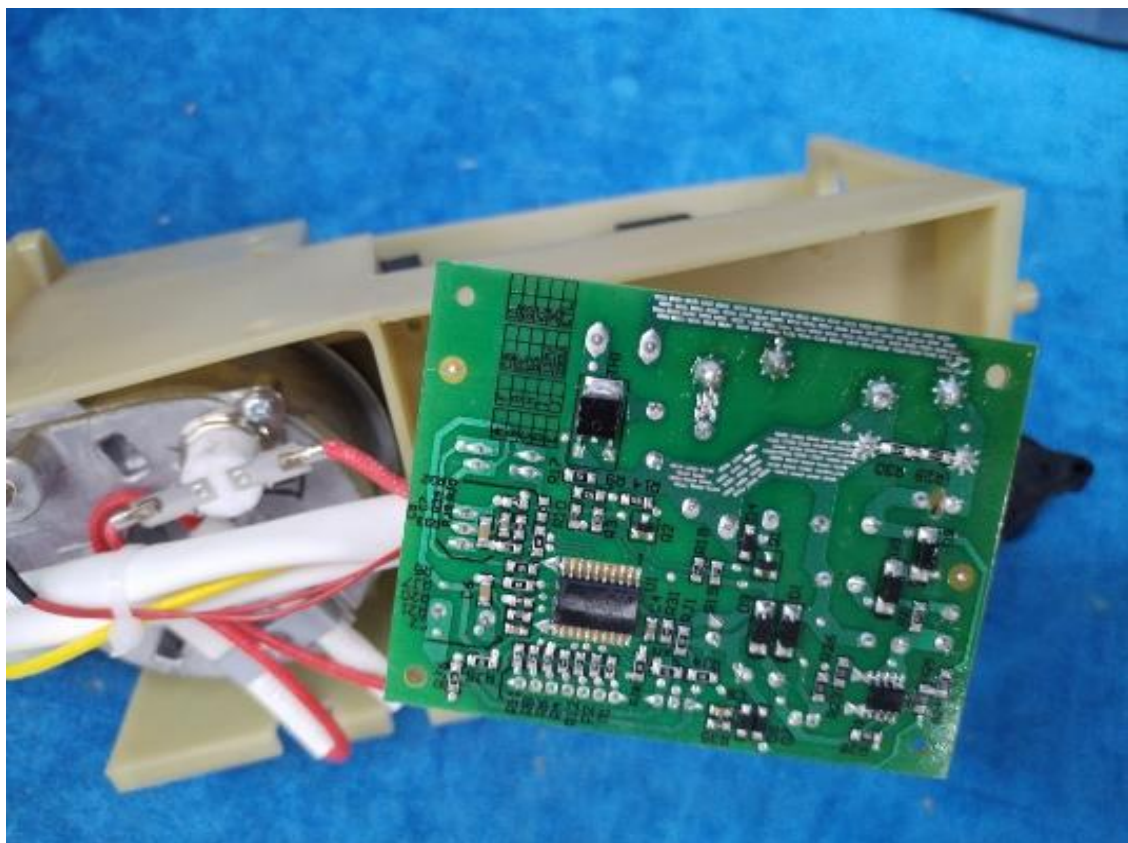


Photo 38 - Internal view of model CM5706A-UL



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Photo 39 - Internal view of model CM5706A-UL

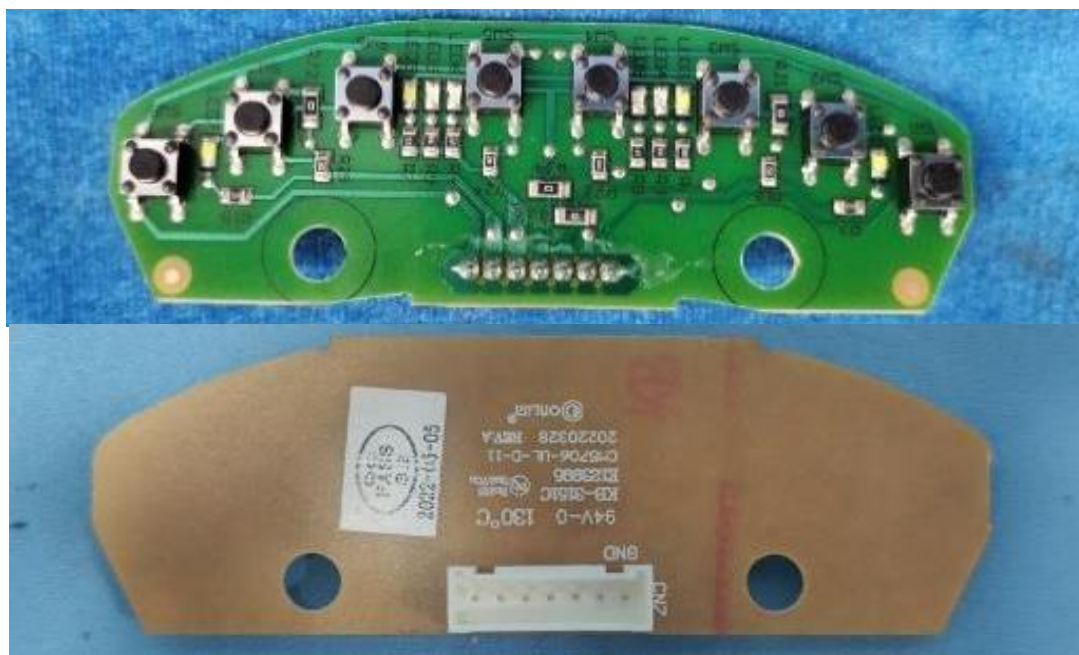


Photo 40 - External view of model CM5706-UL



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Photo 41 - Internal view of model CM5706-UL

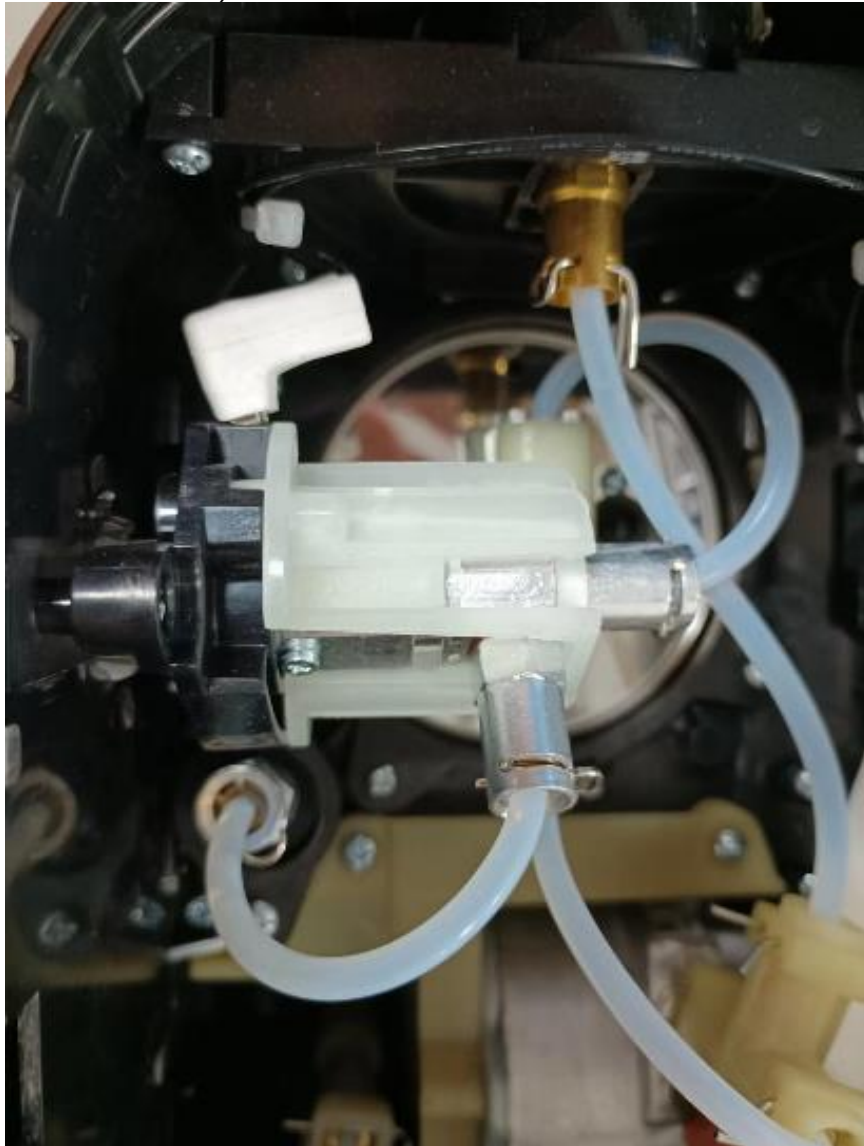


Photo 42 - Optional Steam Tube view of models CM5418-UL, CM5418BC-UL, CM5418GA-UL



3.0 Product Photographs

Photo 43 - Optional Convert Switch Assembly view of models CM5418-UL, CM5418BC-UL, CM5418GA-UL
(Micro Switch was fixed on the side)



3.0 Product Photographs

Photo 44 - External view of model CM5418I-UL



Photo 45 - External view of model CM5418I-UL



3.0 Product Photographs

Photo 46 - Internal view of model CM5418I-UL

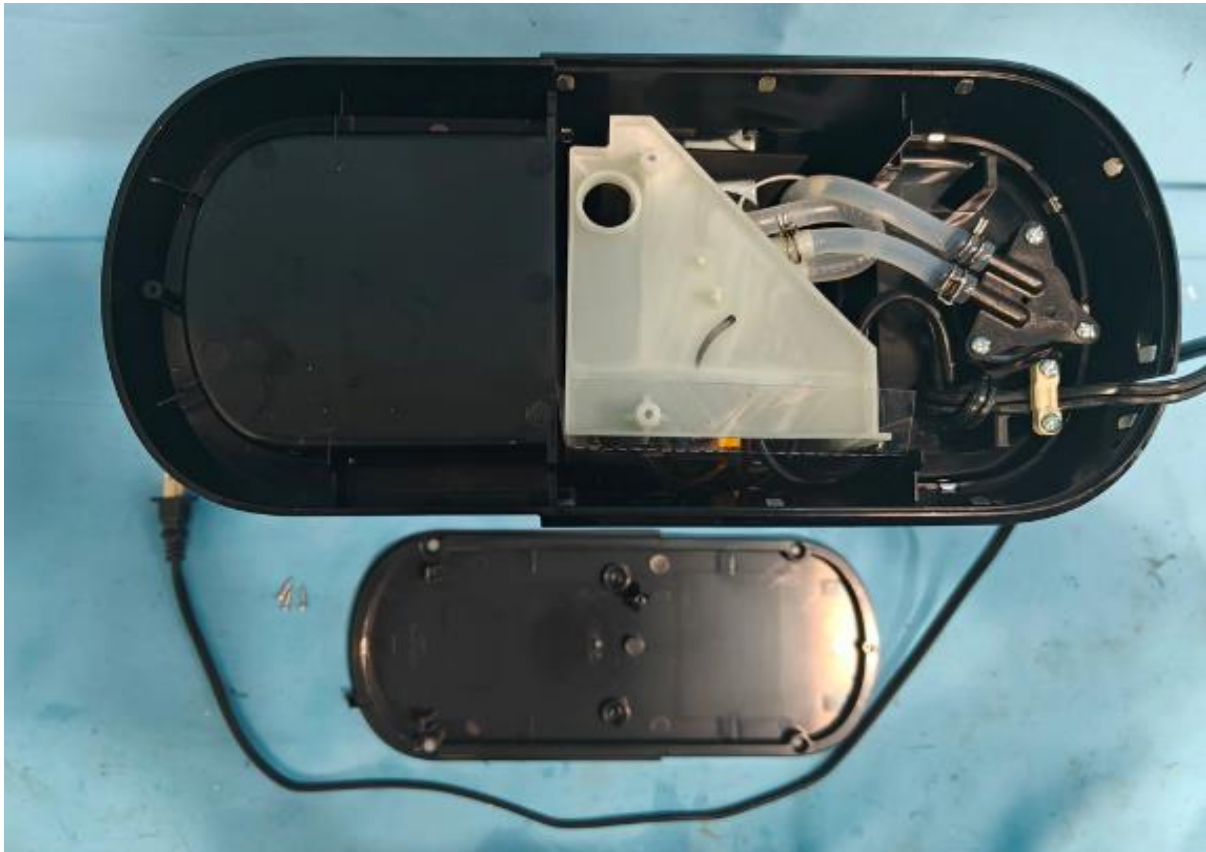
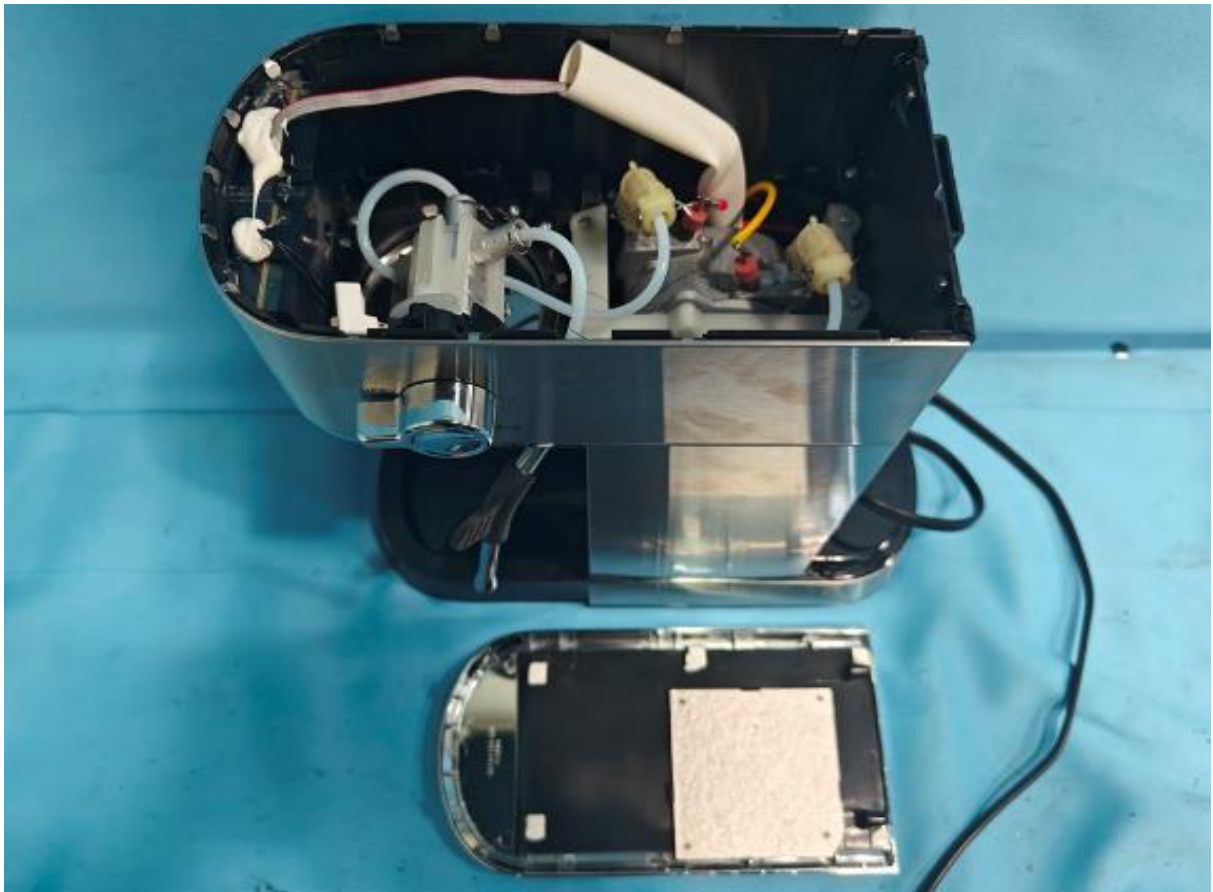


Photo 47 - Internal view of model CM5418I-UL



3.0 Product Photographs

Photo 48 - Internal view of model CM5418I-UL

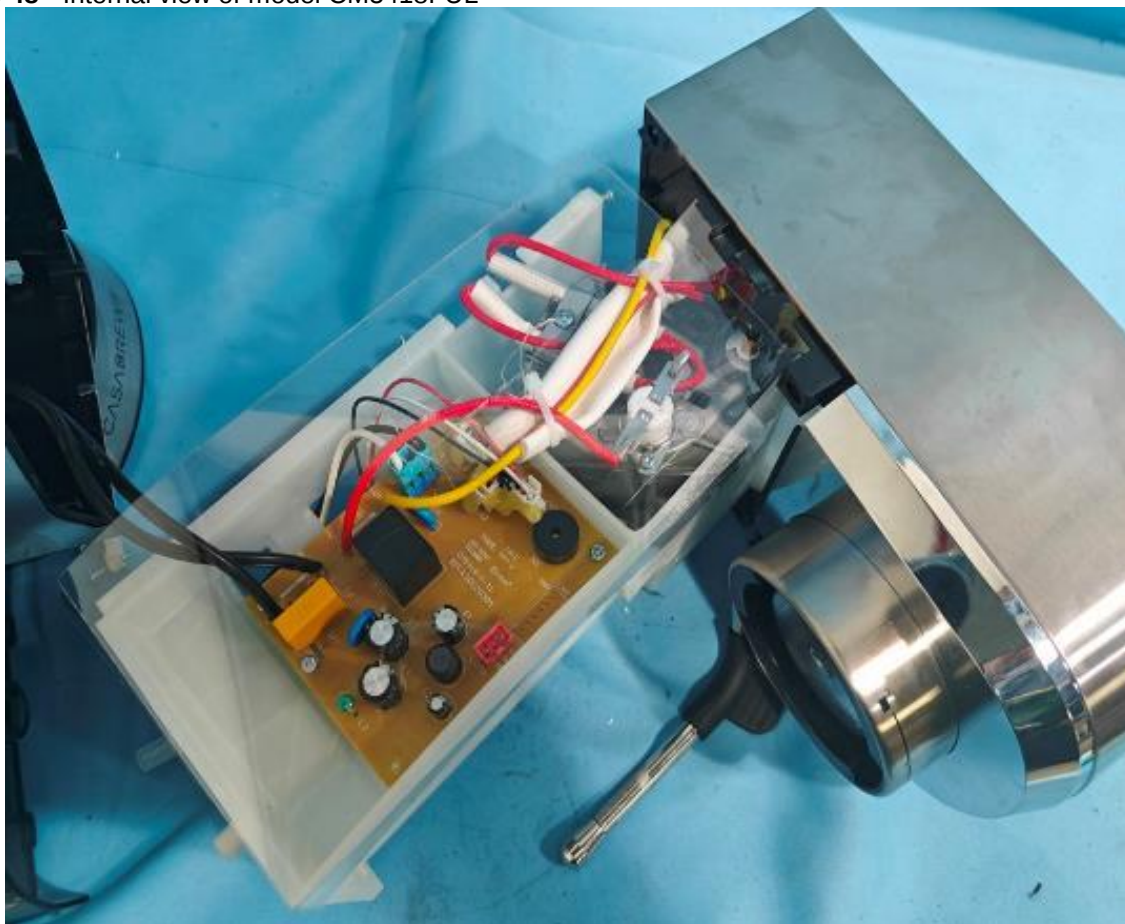
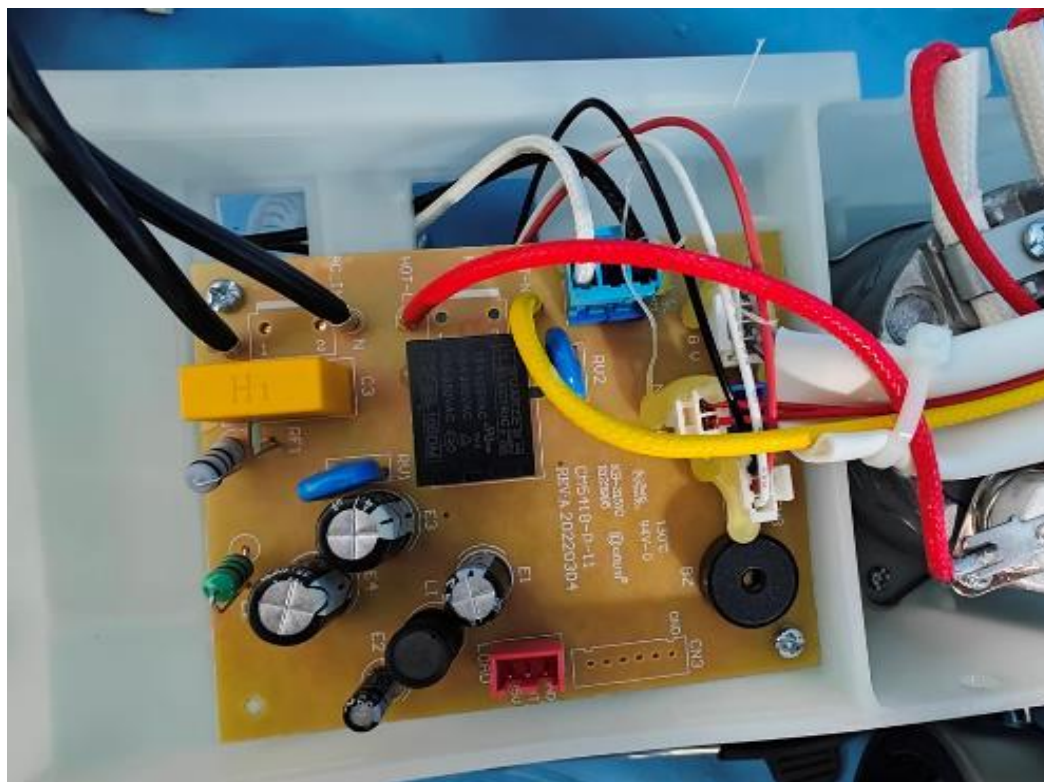


Photo 49 - Internal view of model CM5418I-UL



3.0 Product Photographs

Photo 50 - Internal view of model CM5418I-UL



Photo 51 - Internal view of model CM5418I-UL



3.0 Product Photographs

Photo 52 - Internal view of model CM5418I-UL

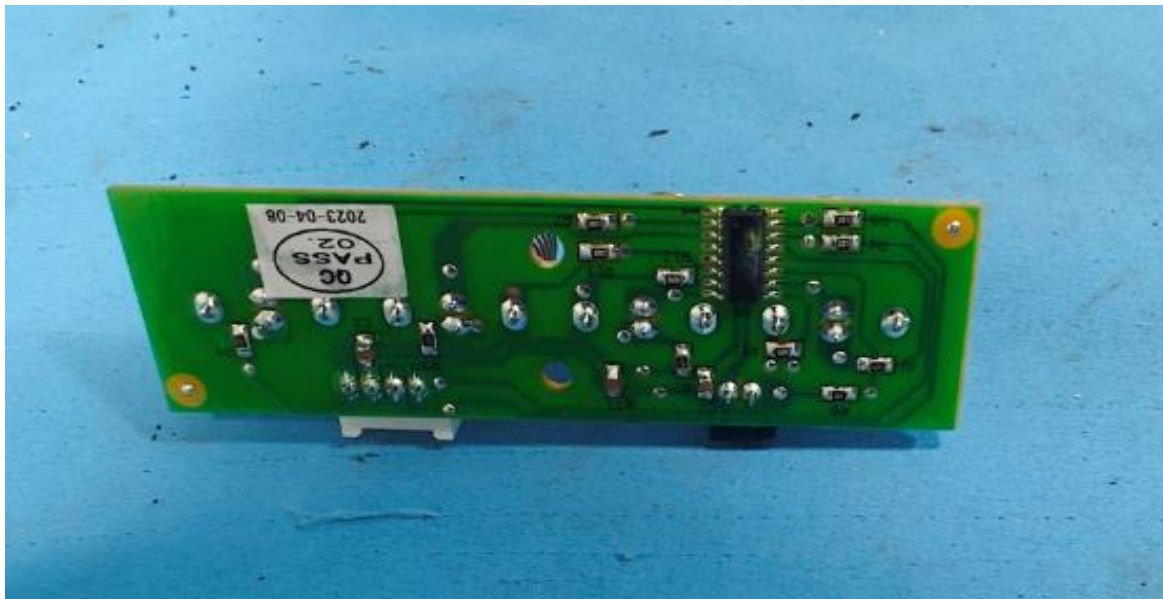
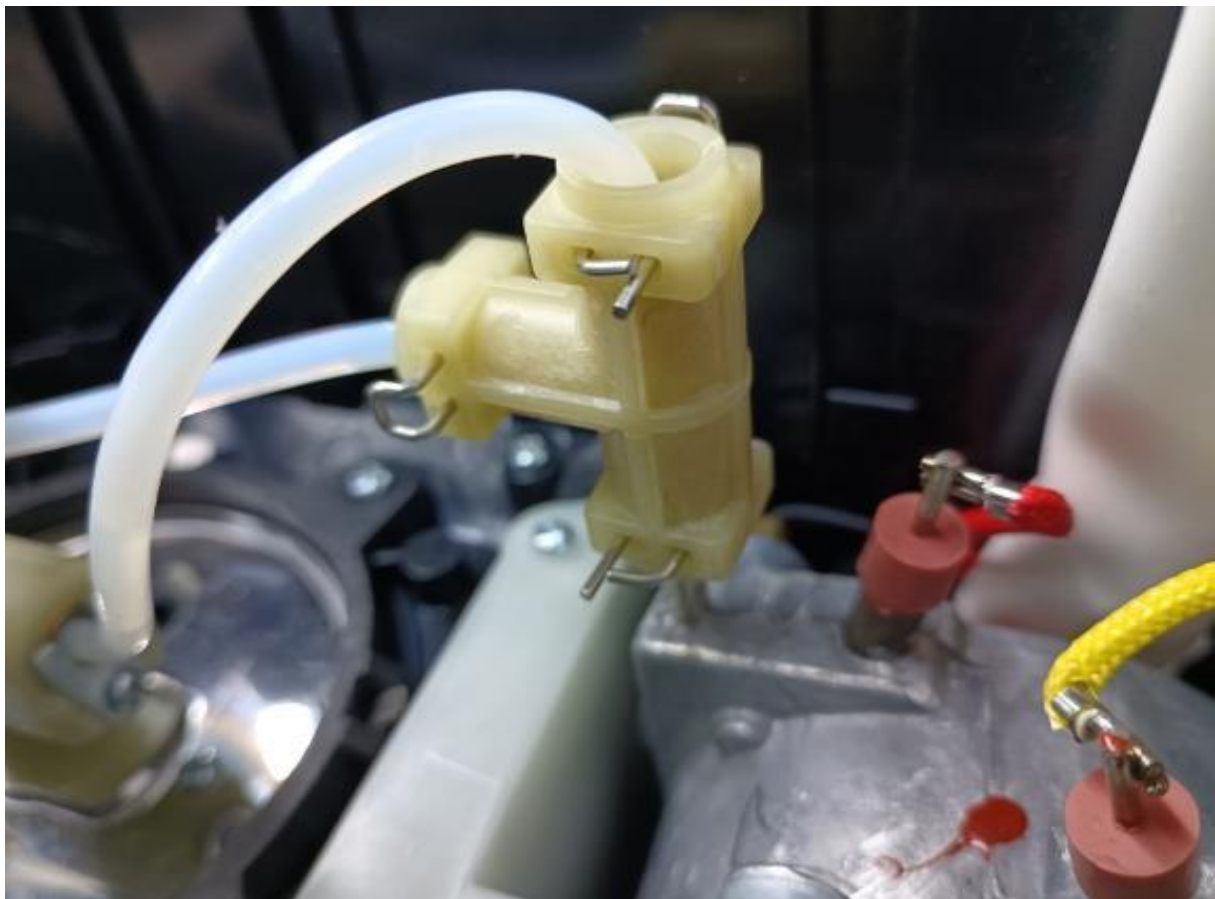


Photo 53 - Alternative construction view of models CM5418E-UL, CM5418BC-UL

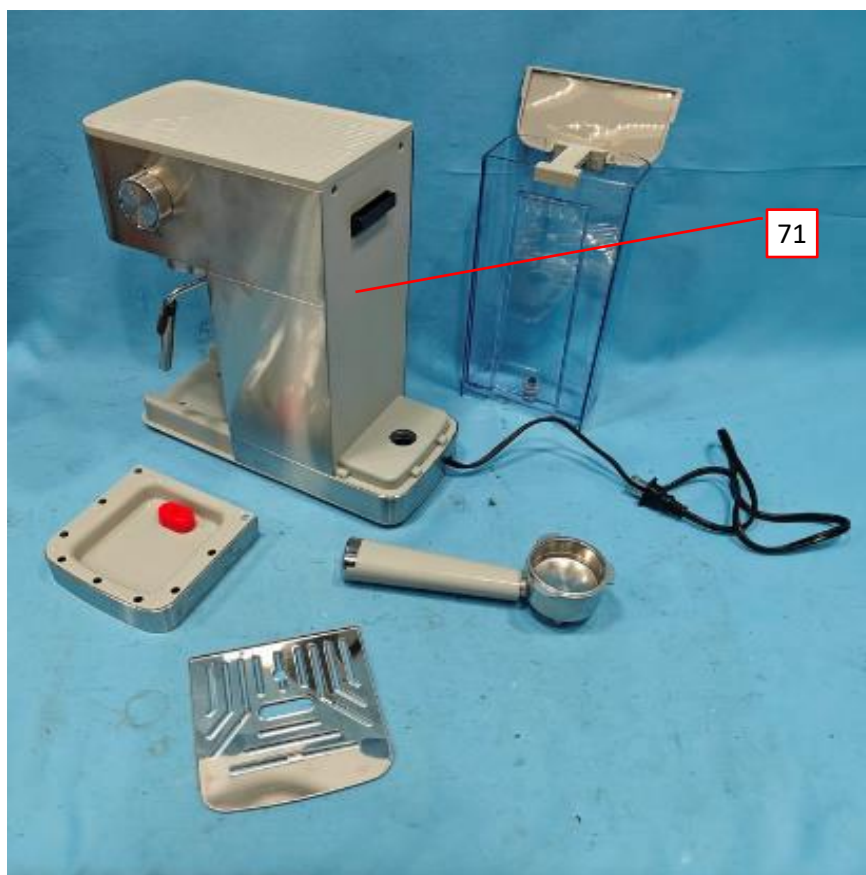


3.0 Product Photographs

Photo 54 - External view of model CM5432-UL



Photo 55 - External view of model CM5432-UL



3.0 Product Photographs

Photo 56 - Internal view of model CM5432-UL

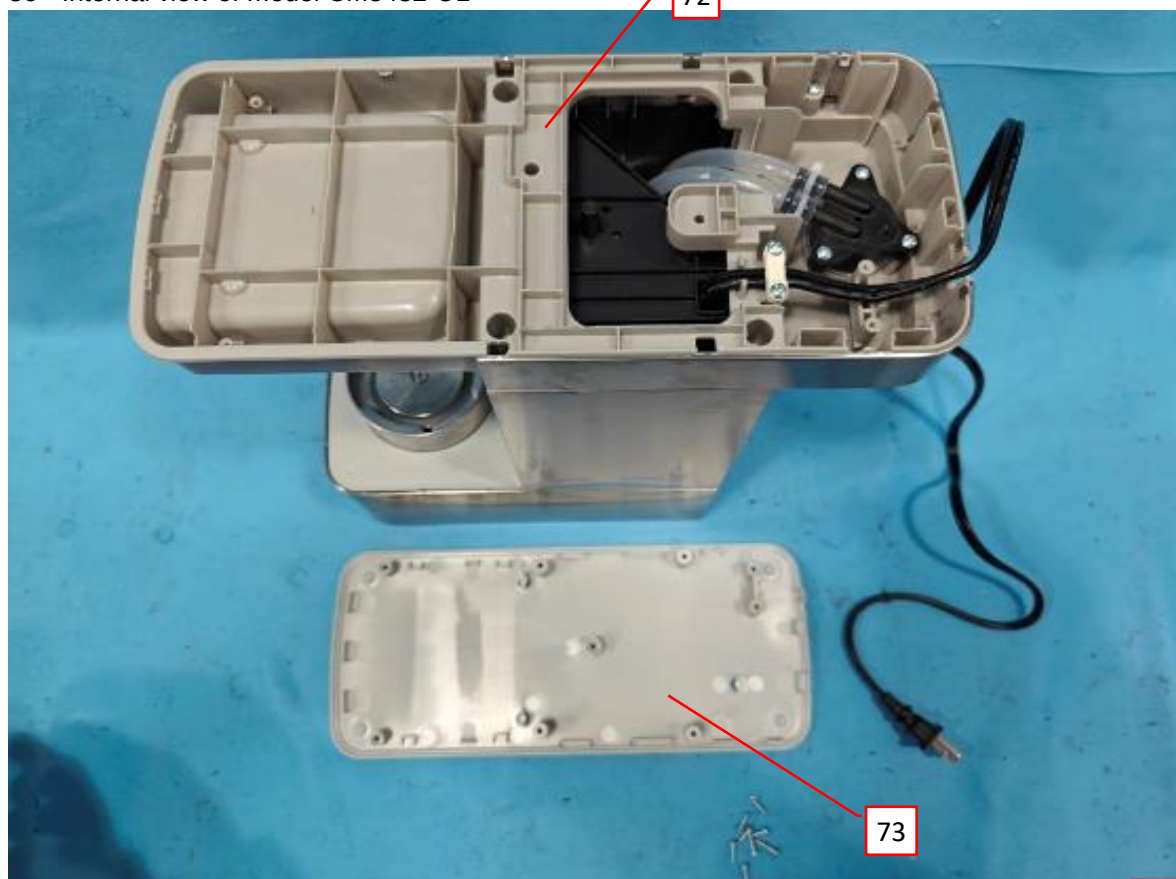
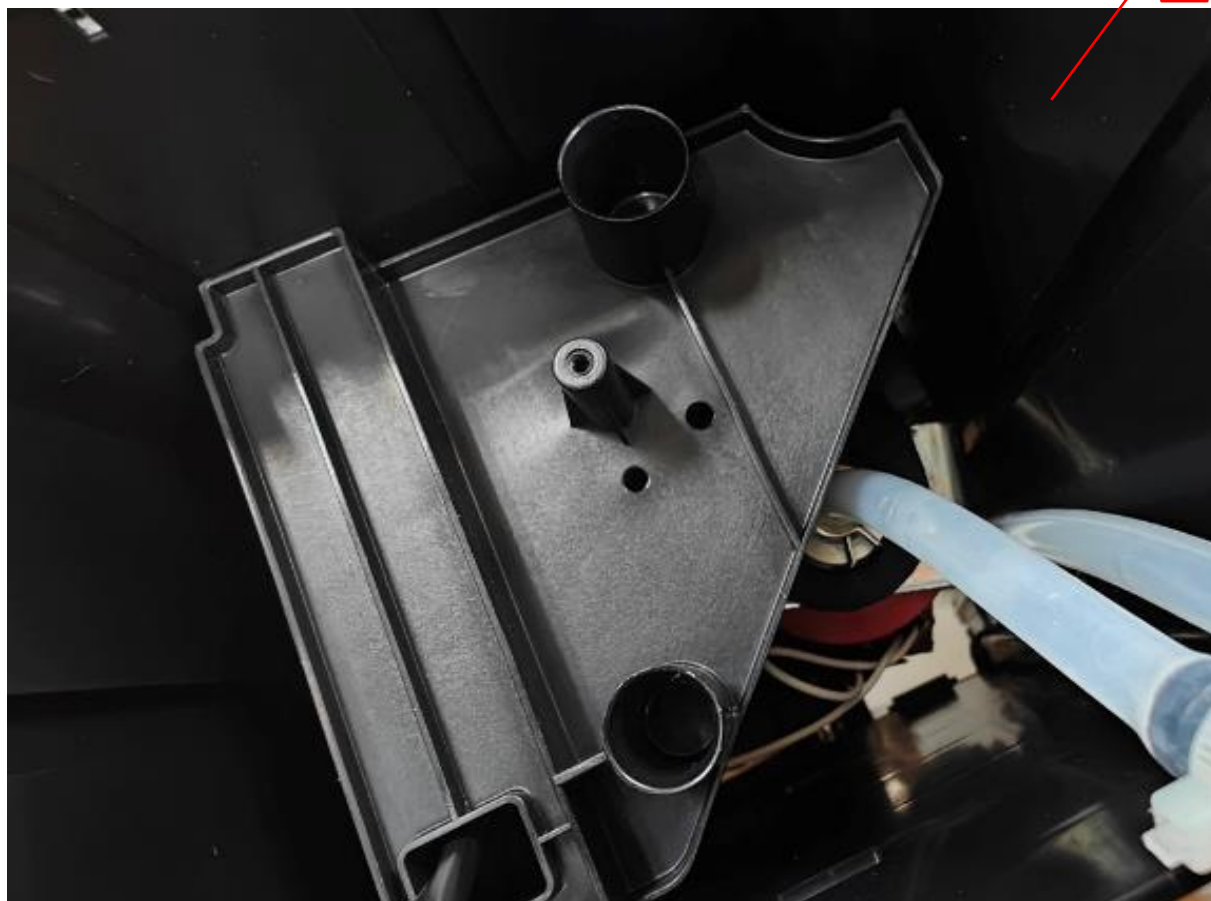


Photo 57 - Internal view of model CM5432-UL



3.0 Product Photographs

Photo 58 - Internal view of model CM5432-UL

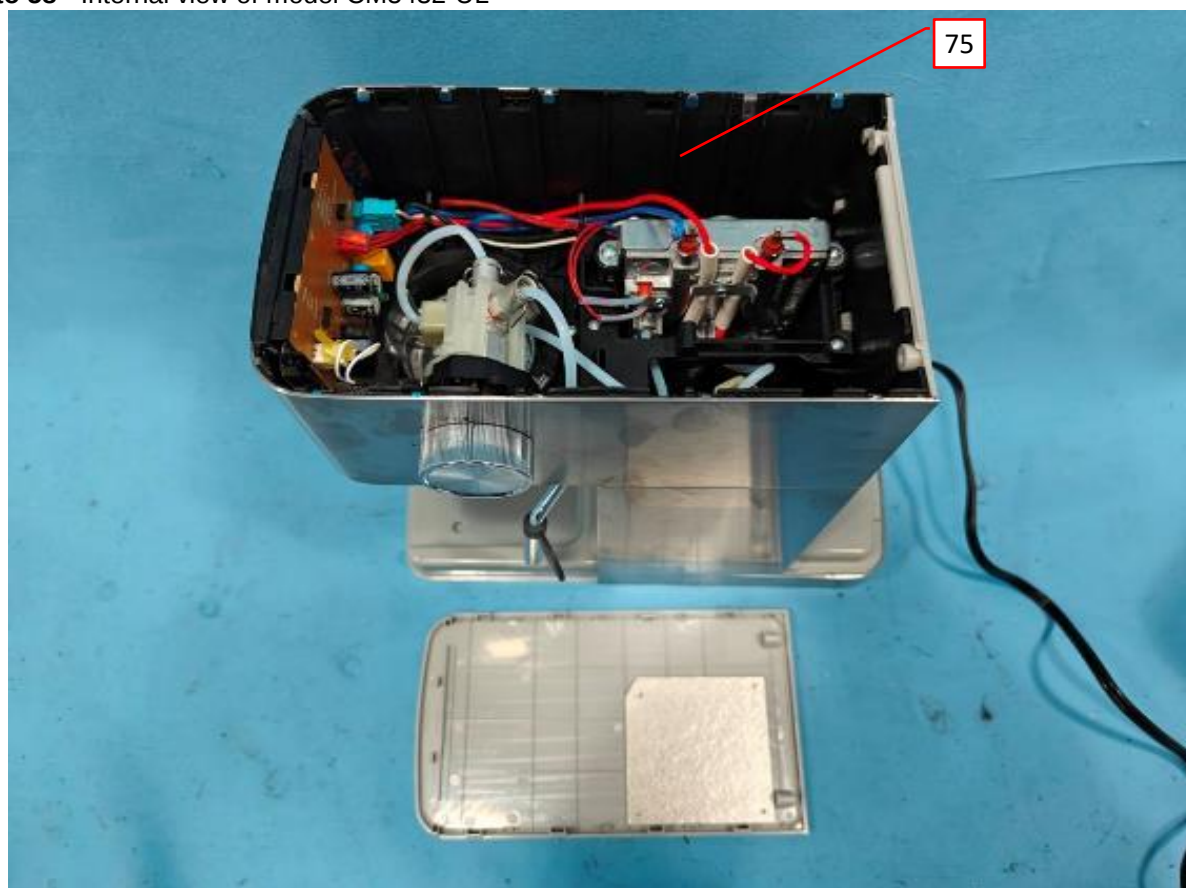
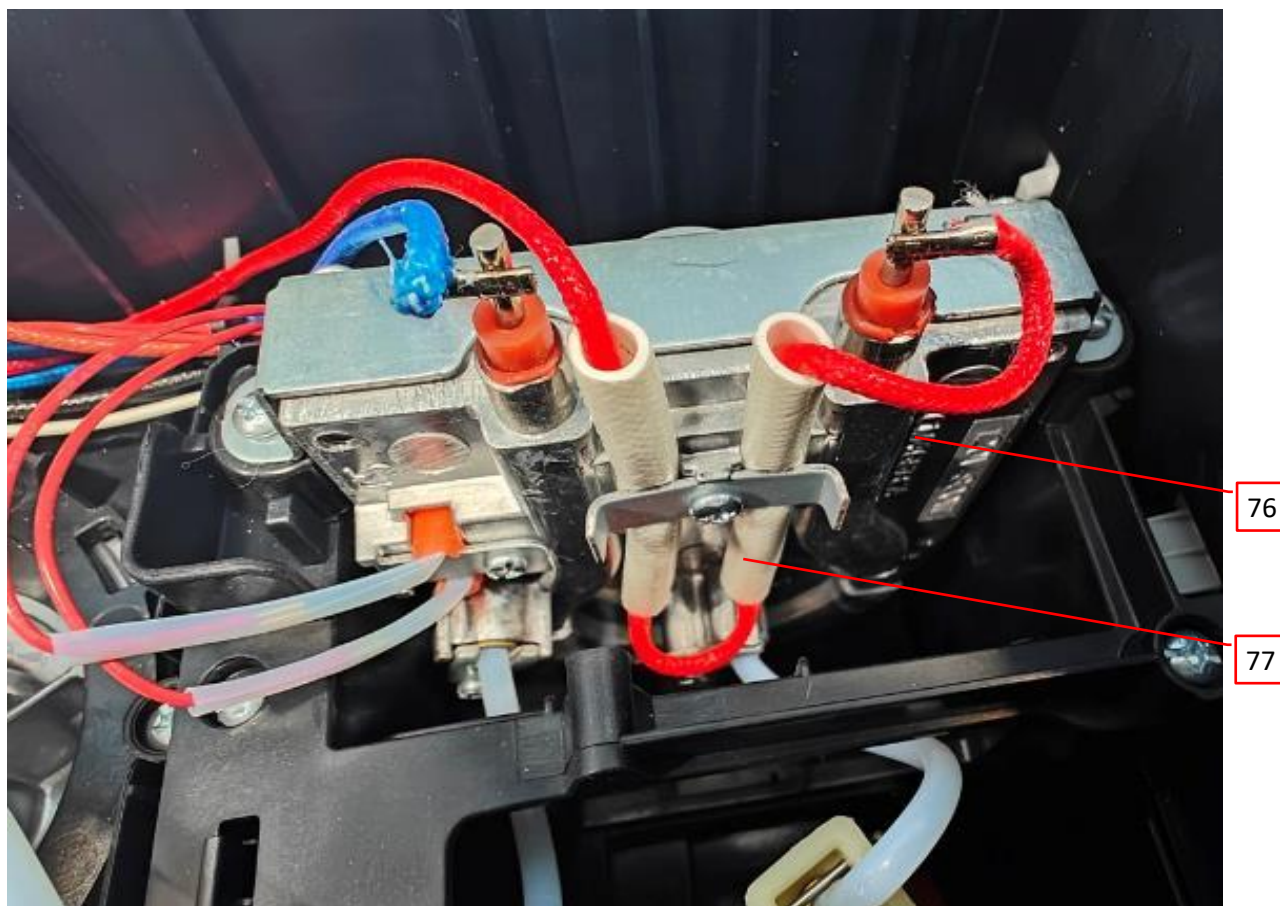


Photo 59 - Internal view of model CM5432-UL



3.0 Product Photographs

Photo 62 - Internal view of model CM5432-UL

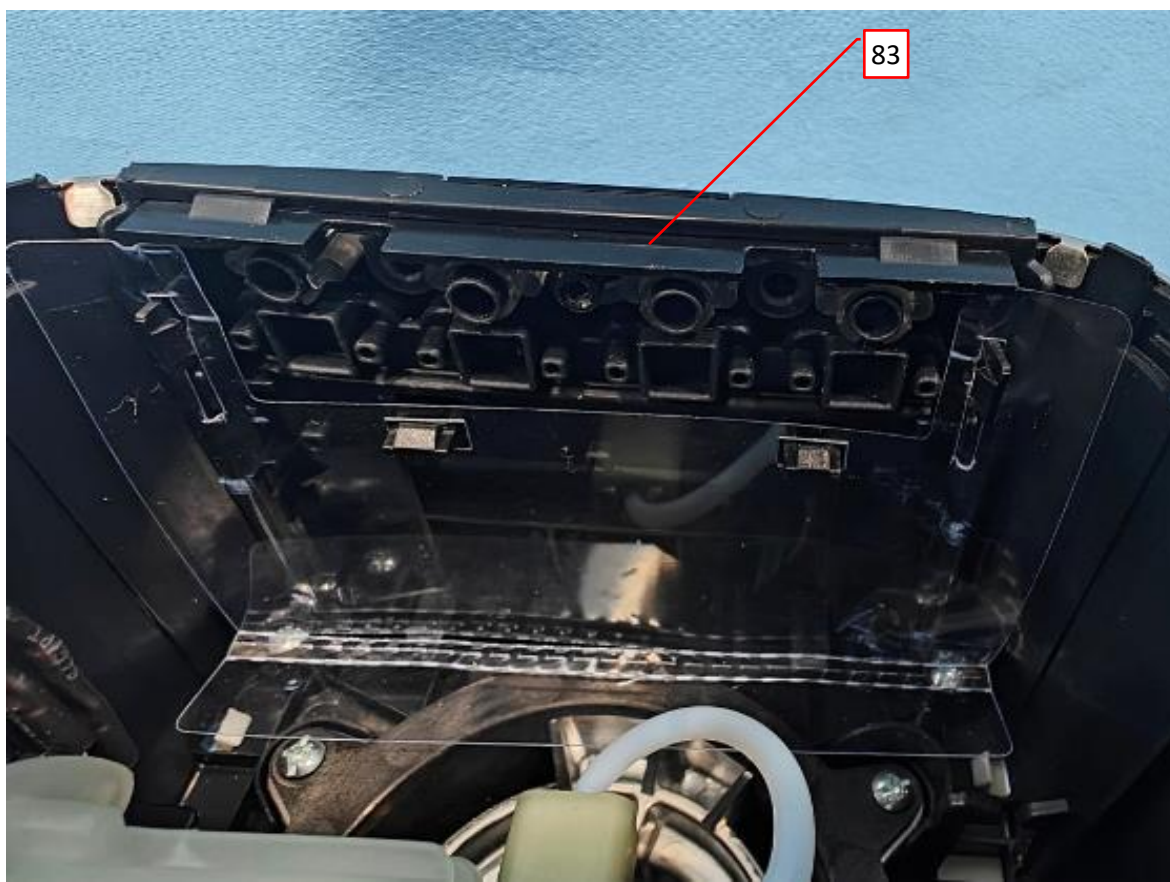
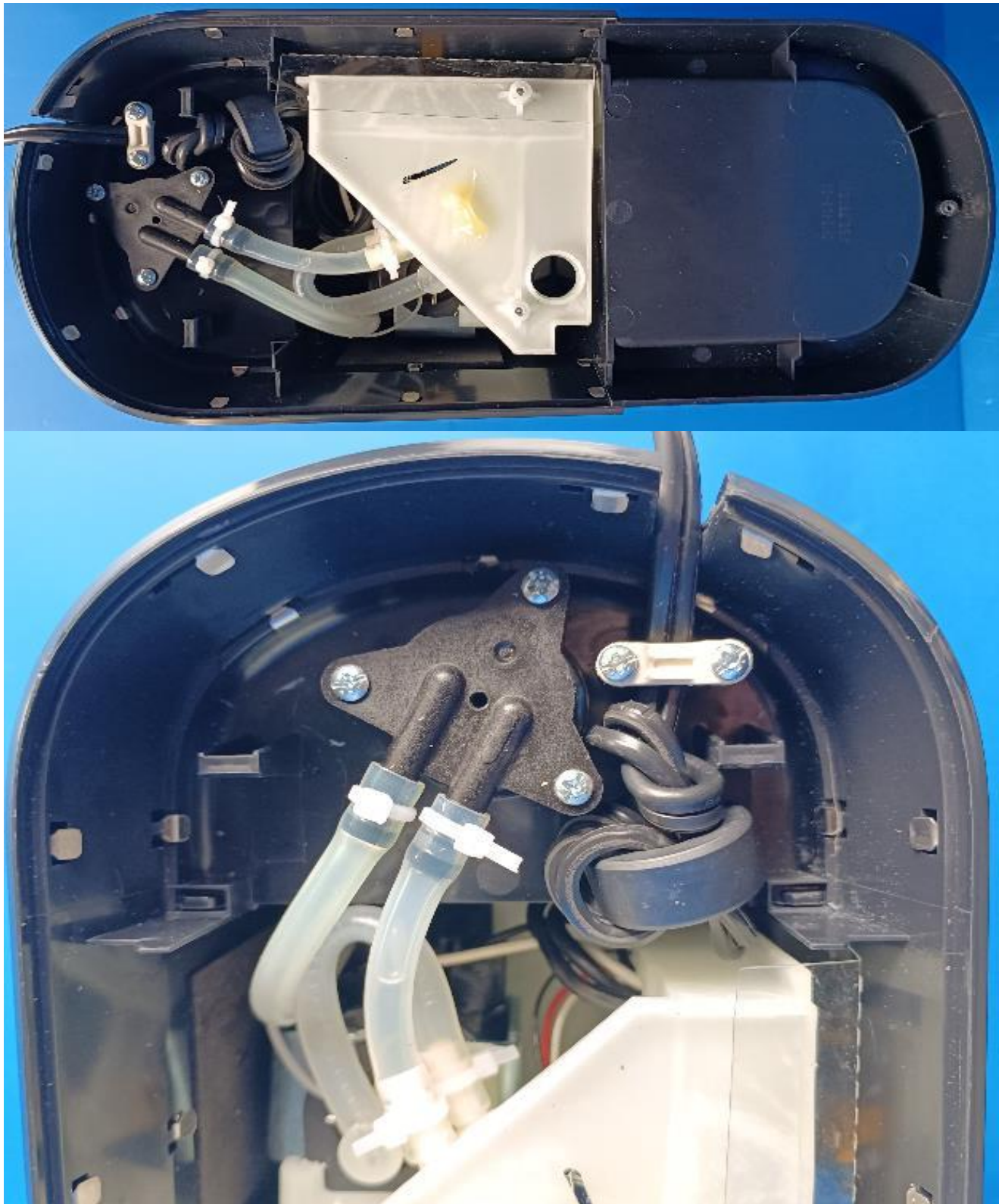


Photo 63 - External view of model CM5418IA-UL



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Photo 64 - Internal view of model CM54181A-UL



3.0 Product Photographs

Photo 65 - External view of model CM5418EA-UL

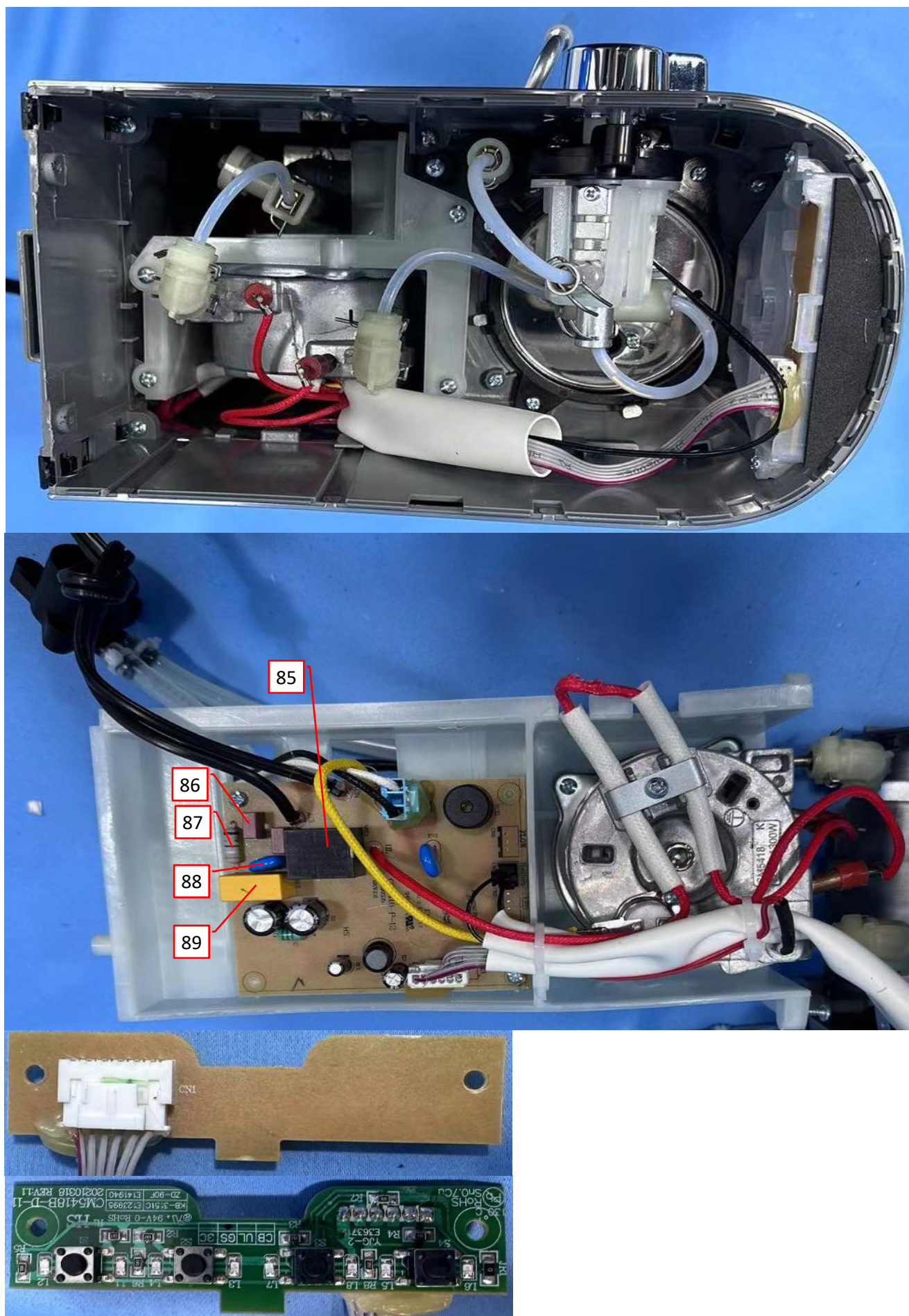


Photo 66 - External view of model CM5418M-UL



3.0 Product Photographs

Photo 67 - Internal view of model CM5418M-UL



3.0 Product Photographs

Photo 68 - Optional Construction of steam tube for model CM5418M-UL



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	Power Supply Cord Set	Various	SPT-2	Rated 300V, VW-1, 105°C, 2C×16AWG, flexible cord integrally molded on a recognized attachment polarized plug type 1-15P on one end. Length 0.6 - 2.1 m from the cord entry to plug surface.	cULus cETLus
1	2	Water Tank	Various	Various	AS material. Rated HB or better, Min. 1.5 mm thick.	cURus
1	3	Decoration Sheet	Various	Various	Stainless steel, SUS430. Min. 0.3mm thick. Enclosed top cover, top housing, main housing and water tray.	NR
1	4	Button	CHI MEI CORPORATION	PA-757(+)	ABS. Rated HB, HWI=4, HAI=0, CTI=0, 80 °C, Min. 1.5 mm thick. Physical fitted in the holes of top cover.	cURus
			KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 1.5 mm thick. Physical fitted in the holes of top cover.	cURus
			Denka Company Limited	TP-8+	MBS. Rated HB, 50 °C, Min. 1.5 mm thick. Physical fitted in the holes of top cover.	cURus
			LG CHEM LTD	TR557(m)	ABS/MMA. Rated HB, HWI=4, HAI=0, CTI=0, 50 °C, Min. 1.5 mm thick. Physical fitted in the holes of top cover.	cURus
1	5	Funnel Assembly	Various	Various	Consists of item 5a, 5b.	NR
1	5a	Funnel Handle (Not Shown)	Various	Various	Thermoplastic. Rated HB or better, 105°C at least.	cURus
			Various	Various	Thermosets. Rated HB or better, 105°C at least.	cURus
1	5b	Funnel (Not Shown)	Various	Various	Aluminum. Min. 2.8 mm thick.	NR
1	6	Tray	Various	Various	Thermoplastic. Rated HB or better. With stainless steel cover.	cURus
2	7	Knob	CHI MEI CORPORATION	PA-757(+)	ABS. Rated HB, HWI=4, HAI=0, CTI=0, 80 °C, Min. 2.2 mm thick. Secured on shaft by snap fitted.	cURus
			KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 2.2 mm thick. Secured on shaft by snap fitted.	cURus
2	8	Steam Tube	Various	Various	Stainless steel or aluminum steel tube. Φ8mm or Φ6mm.	NR
2	8a	Steam Tube Knob	Various	Various	Silicone. Rated HB or better, 105°C at least. Min 1.5 mm thick.	cURus
2	9	Foot	Various	Various	Silicone. Φ10mm, extended 0.8mm from opening.	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
2	10	Bottom Cover	KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 2.2 mm thick. Secured on main housing by screws.	cURus
			CHI MEI CORPORATION	PA-757(+)	ABS. Rated HB, HWI=4, HAI=0, CTI=0, 80 °C, Min. 2.2 mm thick. Secured on main housing by screws.	cURus
3	11	Main Housing 1	LG CHEMICAL LTD	LUPOY GN5001RFH	PC+ABS. Rated V-0, HWI=2, HAI=0, CTI=2, 80 °C, Min. 2.2 mm thick.	cURus
3	12	Main Bracket	ASCEND PERFORMANCE MATERIALS, LLC	R513H	PA66. Rated HB, HWI=3, HAI=0, CTI=2, 120 °C. Min. 2.0 mm thick. Fixed on main housing by screws.	cURus
			HANWHA TOTAL PETROCHEMICAL Co Ltd	HJ730+	PP. Rated HB, HWI=2, HAI=0, CTI=0, 115 °C. Min. 2.0 mm thick. Fixed on main housing by screws.	cURus
3	13	Cold Water Pipe	Various	Various	Silicone. Rated HB, 150 °C, measured 2.0 mm thick and 8.0 mm in outer diameter. Each terminal secured by a cable tie.	cURus
3	14	Inlet Connector	Various	Various	PP. Rated HB or better, 105°C at least, Min. 1.5mm thick.	cURus
3	15	Strain Relief	RADICI CHIMICA SPA	A45L-1	PA66 material. Rated V-2, 70°C. Min. 1.5 mm thick. Secured to main housing by two screws.	cURus
			GUANGDONG WAYLAM ENGINEERING PLASTICS CO LTD	PA-F2101	PA66 material. Rated V-0, 65°C. Min. 1.5 mm thick. Secured to main housing by two screws.	cURus
4	16	Top Cover 1	LG CHEMICAL LTD	LUPOY GN5001RFH	PC+ABS. Rated V-0, HWI=2, HAI=0, CTI=2, 80 °C, Min. 2.2 mm thick.	cURus
4	17	Mica Sheet	Various	Various	Min. 0.8mm thick.	NR
4	18	Top Housing 1	LG CHEMICAL LTD	LUPOY GN5001RFH	PC+ABS. Rated V-0, HWI=2, HAI=0, CTI=2, 80 °C, Min. 2.2 mm thick. Fixed to main housing by screws.	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
4	19	Funnel Support	DSM ENGINEERING PLASTICS B V	K223-HG6	PA6. Rated HB, 125°C. Minimum thickness 1.5mm.	cURus
			E I DUPONT DE NEMOURS & CO INC	70G43L	PA66. Rated HB, 120°C. Minimum thickness 1.5mm.	cURus
			NGAI HING ENGINEERING PLASTIC MATERIALS LTD	SN(Y)-G(L)HXXXXX-HR	PA66. Rated HB, 125°C. Minimum thickness 1.5mm.	cURus
			HANWHA TOTAL PETROCHEMICAL CO LTD	HJ730L	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=2, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
			HYOSUNG CORP	HJ801R	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
			Lanzhou Petrochemical Research Center, PetroChina Company Limited	H8020	Only for CM5432-UL. PP. Rated HB, 110°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
4	20	Press Plate	Various	Various	Stainless steel, SUS430. Min. 0.8mm thick.	NR
4	21	Water Connector	DSM ENGINEERING PLASTICS B V	K223-HG6	PA6. Rated HB, 125°C. Minimum thickness 1.5mm. Measured overall 54mm x 38mm x 32mm.	cURus
			E I DUPONT DE NEMOURS & CO INC	70G43L	PA66. Rated HB, 120°C. Minimum thickness 1.5mm. Measured overall 54mm x 38mm x 32mm.	cURus
4	22	Hot water and Steam pipe	Various	Various	Teflon. Rated 200°C at least. Minimum thickness 1.0mm. For connecting boiler, steam valve, funnel support and steam outlet.	cURus
4	23	Pressure-relief Valve	Various	Various	Consisted of item 23a to 23f.	NR
4	23a	Protect Valve Body (Not Shown)	DSM ENGINEERING PLASTICS B V	K223-HG6	PA6. Rated HB, 125°C. Minimum thickness 1.5mm. Measured overall 29mm x 13.8mm x 56mm.	cURus
			E I DUPONT DE NEMOURS & CO INC	70G43L	PA66. Rated HB, 120°C. Minimum thickness 1.5mm. Measured overall 29mm x 13.8mm x 56mm.	cURus
4	23b	Protect Valve Bush (Not Shown)	DSM ENGINEERING PLASTICS B V	K223-HG6	PA6. Rated HB, 125°C. Minimum thickness 1.5mm. Measured overall 7.9mm x 7mm x 8mm.	cURus
			E I DUPONT DE NEMOURS & CO INC	70G43L	PA66. Rated HB, 120°C. Minimum thickness 1.5mm. Measured overall 7.9mm x 7mm x 8mm.	cURus
4	23c	Protect Valve Plunger (Not Shown)	Various	Various	Silicone Molding Resin. Rated 150°C at least. Fixed in Protect Valve Bush.	cURus
4	23d	Spring (Not Shown)	Various	Various	Stainless steel. Measured Φ 0.9mm, OD 7.5mm by nature length 23mm.	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
4	23e	Protect Push Pole (Not Shown)	DSM ENGINEERING PLASTICS B V	K223-HG6	PA6. Rated HB, 125°C. Minimum thickness 1.5mm. Measured overall OD 7.3mm x 21.8mm.	cURus
			E I DUPONT DE NEMOURS & CO INC	70G43L	PA66. Rated HB, 120°C. Minimum thickness 1.5mm. Measured overall OD 7.3mm x 21.8mm.	cURus
4	23f	Protect Valve Cap (Not Shown)	DSM ENGINEERING PLASTICS B V	K223-HG6	PA6. Rated HB, 125°C. Minimum thickness 1.5mm. Measured overall 15mm x 15mm x 11.3mm.	cURus
			E I DUPONT DE NEMOURS & CO INC	70G43L	PA66. Rated HB, 120°C. Minimum thickness 1.5mm. Measured overall 15mm x 15mm x 11.3mm.	cURus
6	24	Flowmeter	ODE (HK) Company Limited	AB32-S21PO12C-11R	Rated 0.033-2litre/min, supply voltage 3.8-20VDC/ Consumption 0.5mA MAX.	NR
			Digmesa	TYPE 974	Rated 0.025-2litre/min, supply voltage 4.5-23VDC/ Consumption 8mA bis Max. 25mA.	NR
			Yifeng Technologies Co.,Ltd	F001-12A-01	Rated 0.033-2litre/min, supply voltage 3.8-20VDC/ Consumption 0.5mA MAX.	NR
			Ningbo Jiayin Electro Mechanical Technology Co., Ltd.	JYLCG-2A	Rated 0.033-2litre/min, supply voltage 3.5-12VDC/ Consumption 8mA MAX.	NR
			ODE (HK) Company Limited	AB32-S21PO12C-11R3	Rated 0.033-2litre/min, supply voltage 3.8-20VDC/ Consumption 0.5mA MAX.	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	25	Pump	CEME S.p.A. a Socio Unico	EP4	Rated 120 V, 60 Hz, 41 W, Class A. Secured on Pump bracket.	cURus
				EP5	Rated 120 V, 60 Hz, 41 W, Class A. Secured on Pump bracket.	cURus
				EP5FM	Rated 120 V, 60 Hz, 46 W, Class F. Secured on Pump bracket.	cURus
				EP4FM	Rated 120 V, 60 Hz, 46 W, Class F. Secured on Pump bracket.	cURus
			ODE (HK) CO LTD	P400	Rated 120 V, 60 Hz, 0.9 A, Class F. Secured on Pump Bracket.	cURus
				P500	Rated 120 V, 60 Hz, 0.9 A, Class F. Secured on Pump Bracket.	cURus
			Ningbo Jiayin Electro Mechanical Technology Co Ltd	JYPC-506	Rated 100-127V 60Hz 55W Class H. Secured on Pump Bracket.	cURus
			Ningbo Jiayin Electro Mechanical Technology Co Ltd	JYPC-503A	Rated 100-127V 60Hz 55W Class H. Secured on Pump Bracket.	cURus
6	26	Pump Protector (optional, not shown)	JIANGSU CHANGSHENG ELECTRIC APPLIANCE CO LTD	BR-B5D	Rated 120V, 50/60Hz, 1/2HP, setting point temperature 100°C. Fixed on outer surface of pump.	cURus
			FOSHAN EAGLE TECHNOLOGY CO LTD	AMT-22	Rated 120V, 50/60Hz, 6A, setting point temperature 100°C. Fixed on outer surface of pump.	cURus
7	27	NTC Sensor Assembly	Various	Various	Consists of item 27a to 27d.	NR
7	27a	NTC (Not Shown)	THINKING ELECTRONIC INDUSTRIAL CO LTD	DHT0B104F395 2NY	Rated 100k ohms at 25°C, Tmoa=300°C, Class C3.	cURus
			SHENZHEN KEPENGDA ELECTRONIC CO LTD	NTC-104-395-58	Rated 100k ohms at 25°C, Tmoa=300°C, Class C3.	cURus
7	27b	Insulation Tube for NTC (Not Shown)	Various	Various	Heat-shrinkable Tube. Rated 150 °C, 600V, VW-1. Enclosed NTC and lead wire.	cURus
7	27c	NTC Clip (Not Shown)	Various	Various	Stainless steel. Thickness 0.6mm. Secured on boiler by screw.	NR
7	27d	Seal Glue (Not Shown)	Various	Various	Epoxy resin. Rated HB or better, min. 175°C, Min. 1.5mm thick.	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
7	28	Water Boiler	GuangDong Xinbao Electrical Appliances Holdings Co., Ltd	CM5418	Aluminum. Minimum thickness 2.8mm. Consists of two parts, secured together by screws, and then seal by Boiler Seal Ring. Consisted of following parts 28a to 28f. Refer to Illustration 6 for details.	NR
7	28a	Body (Not Shown)	Various	Various	Aluminum. Consisted of three parts, secured together by screws, measured min. 3.0 mm thick.	NR
7	28b	Heat Element (Not Shown)	GuangDong Xinbao Electrical Appliances Holdings Co., Ltd	120V 1300W	Rated 120V 1300W. Heating wire Cr20Ni80, 10.5-12.3 ohms with SUS201 tube Φ 6.6mm. Measured 0.7mm thick, insulated by MgO, cool pin Φ 2.0*40mm, with Φ 5mm*6.5mm height silicone caps for insulated. Refer to illustration 5 for details.	NR
7	28c	Heat element holder (Not Shown)	Various	Various	SGCC. 1.0mm thick. 3PCS	NR
7	28d	Water circulating tube (Not Shown)	Various	Various	SUS304. Measured 0.75 mm thick. The pin holes arranged on the body, secured to Body by a screw.	NR
7	28e	Seal Ring (Not Shown)	JIANGSU HONGDA NEWMATERIAL CO LTD	HD-95	SIR. Rated HB, 150°C, measured 1.8mm thick. Secured on water outlet.	cURus
7	28f	Boiler Bracket (Not Shown)	Various	Various	SECC. Thickness 1.0mm. Secured on boiler by screw.	NR
7	29	Thermal Fuse assembly	Various	Various	Consists of item 29a to 29c. Two provided.	NR
7	29a	Thermal Fuse Tube (Not Shown)	Various	Various	Silicone rubber tubing with outer fiberglass sleeving, rated 600V, VW-1, 200°C at least. 1.0 mm thick, provided to cover thermal fuse	cURus
7	29b	Thermal Fuse (Not Shown)	THERM-O-DISC INC, SUB OF EMERSON ELECTRIC CO	G4A00216C	Two provided. Rated 250Vac/10A or 120Vac/15A, Tf=216°C. Sleeved by Thermal Link Tube, then clamped tightly to Broiler by clamp sheet by screw.	cURus
7	29c	Clamp Sheet (Not Shown)	Various	Various	SECC. Thickness 1.0mm. Secured on boiler by screw.	NR
8	30	Switch Shaft	KOREA ENGINEERING PLASTICS CO LTD	F20-03	POM. Rated HB, 95°C. Measured overall 12mm x 32mm. long, minimum thickness 1.5mm.	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
8	31	Fixing Sheet of Steam Valve	CHI MEI CORPORATION	PA-757(+)	ABS. Rated HB, HWI=4, HAI=0, CTI=0, 80 °C, Min. 2.0 mm thick. Secured to steam valve bracket by screws.	cURus
			KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 2.0 mm thick. Secured to steam valve bracket by screws.	cURus
8	32	Convert Switch Assembly	Various	Various	Consists of items 32a to 32h.	NR
8	32a	Steam Valve Body (Not Shown)	Various	Various	Aluminum. Minimum thickness 1.2mm. Measured overall Φ 19mm x 50mm long.	NR
8	32b	Steam Valve Shaft (Not Shown)	Various	Various	Aluminum. Measured overall Φ 10.2mm x 42mm long. Provided screw threads for fixing on the Steam Valve Body, measured thread pitch 1.4mm. Provided two grooves for fixing the Seal Ring of Steam Valve Plunger, measured width 2.5mm.	NR
8	32c	Outlet of Valve (Not Shown)	Various	Various	Aluminum. Measured overall Φ 11mm x 23mm long, 1.0mm thick. Provided screw threads for fixing on the Steam Valve Body.	NR
8	32d	Seal Ring of Valve Plunger (Not Shown)	JIANGSU HONGDA NEWMATERIAL CO LTD	HD-95	SIR. Rated HB, 150°C, measured 2.0mm thick. Two employed. Secured on the groove of Steam Valve Plunger.	cURus
8	32e	Sealing Sheet of Valve Plunger (Not Shown)	JIANGSU HONGDA NEWMATERIAL CO LTD	HD-95	SIR. Rated HB, 150°C, measured 2.5mm thick. Secured on the tip of Steam Valve Plunger.	cURus
8	32f	Seal Ring of Valve Outlet (Not Shown)	JIANGSU HONGDA NEWMATERIAL CO LTD	HD-95	SIR. Rated HB, 150°C, measured 1.3mm thick. Secured between Outlet of Valve and Steam Valve Body.	cURus
8	32g	Seal Ring of Tube (Not Shown)	JIANGSU HONGDA NEWMATERIAL CO LTD	HD-95	SIR. Rated HB, 150°C, measured 1.8mm thick. Secured between Inlet Tube and Outlet Tube of Valve and Steam Valve Body.	cURus
8	32h	Fixing Clamp of Tube (Not Shown)	Various	Various	Two provided. Stainless steel. Measured Φ 1.0mm.	NR
8	33	Steam Valve Bracket	HYOSUNG CORPORATION	HJ801R	PP. Rated HB, 120°C. HWI=2, HAI=0, CTI=0. Minimum thickness 1.5mm. Secured to Main Housing by screws.	cURus
			HANWHA TOTAL PETROCHEMICAL Co Ltd	HJ730L	PP. Rated HB, 115°C. HWI=2, HAI=0, CTI=0. Minimum thickness 1.5mm. Secured to Main Housing by screws.	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
8	34	Micro Switch	ZHEJIANG ZHONGXUN ELECTRONICS CO LTD	KW11-3Z	Rated 250 V, 5 A, T125. 50,000 cycles endurance.	cURus
			DONGNAN ELECTRONICS CO LTD	KW4A(S)-A	Rated 125 V, 10 A, T125. 10,000 cycles endurance.	cURus
8	35	Insulated tube	Various	Various	Silicone Tube. Rated Min. 300V, 150°C, VW-1. Enclosed steam relief tube.	NR
10	36	Button Seal Ring	Various	Various	SIR. Rated HB, 105°C, measured 1.8mm thick.	cURus
10	37	Control PCB	Various	Various	Rated V-0, 130°C, Min. 1.6 mm thick. Met UL 796. Secured on control PCB box by screw.	UR
10	38	Control PCB Holder	LG CHEMICAL LTD	LUPOY GN5001RFH	PC+ABS. Rated V-0, HWI=2, HAI=0, CTI=2, 80 °C, Min. 2.2 mm thick.	cURus
			ASCEND PERFORMANCE MATERIALS, LLC	R513H	PA66. Rated HB, HWI=3, HAI=0, CTI=2, 120°C, Min. 1.5mm thick.	cURus
			ASCEND PERFORMANCE MATERIALS, LLC	R533H(f1)	PA66. Rated HB, HWI=3, HAI=0, CTI=2, 125°C, Min. 1.5mm thick.	cURus
			E I DUPONT DE NEMOURS & CO INC	70G43L	PA66. Rated HB, 120°C. Minimum thickness 1.5mm.	cURus
10	39	Control PCB Box	LG CHEMICAL LTD	LUPOY GN5001RFH	PC+ABS. Rated V-0, HWI=2, HAI=0, CTI=2, 80 °C, Min. 2.2 mm thick. Fixed to top cover by screws.	cURus
11	40	Power PCB	Various	Various	Rated V-0, 130°C, Min. 1.6 mm thick. Met UL 796. Secured on pump bracket by screw and hook.	UR
11	41	Varistor	Various	Various	Rated Min. 470V, T85 at least.	cURus
11	42	Connector	YUEQING HONGCHENG ELECTRONICS CO LTD	VH39600-02A	Two pins. Connected to Pump.	UR
			ZHEJIANG LIANHE ELECTRONIC CO LTD	VH3.96-2A	Two pins. Connected to Pump.	cURus
			BOOM PRECISION ELECTRONICS CO LTD ZHEJIANG	VH series	Two pins. Connected to Pump.	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
11	43	Relay	SHENZHEN YUANZE ELECTRIC CO LTD	Y3F-SS-105DM	Rated 15A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			DONGGUAN YONGNENG ELECTRONICS CO., LTD.	YX202-S-105DMF	Rated 15A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			NINGBO YINZHOU YONGLIN ELECTRICAL EQUIPMENT CO LTD	YL303H-S-5VDC-1H	Rated 12A/125VAC coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			DONGGUAN WANHUI INDUSTRIAL CO LTD	LRD-S-105DMF	Rated 15A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
11	44	Current Fuse	Various	Various	F1, F2. Rated 250V, 1A.	cURus
11	45	Resistor	Various	Various	Wire-Wound resistor. Rated 39ohm, 2W.	NR
11	46	X2 Capacitor	Various	Various	Rated 0.22uF, Min. 250VAC, T85 at least.	cURus
13	47	Lamp Holder	LG CHEMICAL LTD	LUPOY GN5001RFH	PC+ABS. Rated V-0, HWI=2, HAI=0, CTI=2, 80 °C, Min. 2.2 mm thick. Fixed to top housing by screws.	cURus
13	48	Lamp Base	Covestro Deutschland AG [PC Resins]	2856 + (z)(f1)	PC. Rated V-2, 115°C. Min. 1.5 mm thick.	cURus
			FORMOSA IDEMITSU PETROCHEMICAL CORP	#2200+(f2)	PC, Rated V-2, 125°C. Min. 1.5 mm thick.	cURus
13	49	Lamp Cover	Covestro Deutschland AG [PC Resins]	2856 + (z)(f1)	PC. Rated V-2, 115°C. Min. 1.5 mm thick.	cURus
			FORMOSA IDEMITSU PETROCHEMICAL CORP	#2200+(f2)	PC, Rated V-2, 125°C. Min. 1.5 mm thick.	cURus
14	50	Seal Ring of Funnel support	Various	Various	Silicone. Rated HB, 150°C, measured 1.8mm thick.	cURus
14	51	Filter Sheet	Various	Various	Stainless steel. Min. 0.5 mm thick. Fixed on funnel bracket by a screw.	NR
15	52	Varistor	Various	Various	Only for CM5418-UL, CM5706-UL, CM5706A-UL. Rated 470V, T85 at least.	cURus
15	53	Resistor	Various	Various	Only for CM5418-UL. Wire-Wound resistor. Rated 20ohm, 2W.	NR
			Various	Various	Only for CM5706-UL, CM5706A-UL. Wire-Wound resistor. Rated 39ohm, 2W.	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
15	54	X2 Capacitor	Various	Various	Only for CM5418-UL, CM5706-UL, CM5706A-UL. Rated 0.22uF, Min. 250VAC, T85 at least.	cURus
15	55	Relay	SHENZHEN YUANZE ELECTRIC CO LTD	Y3F-SS-105DM	Only for CM5418-UL, CM5706-UL, CM5706A-UL. Rated 15A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			DONGGUAN YONGNENG ELECTRONICS CO., LTD.	YX202-S-105DMF	Only for CM5418-UL. Rated 15A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			NINGBO YINZHOU YONGLIN ELECTRICAL EQUIPMENT CO LTD	YL303H-S-5VDC-1H	Only for CM5418-UL. Rated 12A/125VAC coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			Ningbo Tianbo Ganglian Electronics Co., Ltd.	HJR-3FF-S-HF	Only for CM5706-UL, CM5706A-UL. Rated 15A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			Ningbo Tianbo Ganglian Electronics Co., Ltd.	HJR-3FF-S-H	Only for CM5706-UL, CM5706A-UL. Rated 12A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			SANYOU CORPORATION LIMITED	SRD-S-105DM-F	Only for CM5706-UL, CM5706A-UL. Rated 12A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
			Yueqing Meishuo Relays Co.Ltd	MPA-S-112-A	Only for CM5706-UL, CM5706A-UL. Rated 12A/125VAC, coil voltage 5VDC, T105, endurance 100,000 cycles.	cURus
5	56	Cable Tie (Not Shown)	Various	Various	Rated min. 105 °C.	cURus
5	57	Insulated tube (Not Shown)	Various	Various	Siicone tube. Rated Min. 300V, 200°C at least, VW-1. Enclosed the terminals of heater and micro switches.	cURus
5	58a	Internal Wire 1 (Not Shown)	Various	3122	Rated 300Vac, 200°C, 16 AWG connecting heater and thermal fuse, Min. 20AWG connecting to pump terminal.	cURus cETLus
5	58b	Internal Wire 2 (Not Shown)	Various	1332	Rated 300Vac, 200°C, VW-1, Min. 26AWG connecting to NTC, flowmetor, lamp and micro switch.	cURus cETLus
5	58c	Internal Wire 3 (Not Shown)	Various	2651	Rated 300V, VW-1, 105°C, 28 AWG minimum. Served as connecting to Control PCB and Power PCB.	cURus cETLus
			Various	2468	Rated 300V, VW-1, 80°C, 28 AWG minimum. Served as connecting to Control PCB and Power PCB.	cURus cETLus

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	58d	Internal Wire 4 (Not Shown)	Various	1430	Rated 300V, VW-1, 105°C, 22 AWG connecting to pump protector and one terminal of pump.	cURus
						cETLus
			Various	3398	Rated 300V, VW-1, 150°C, 22 AWG connecting to pump protector and one terminal of pump.	cURus
						cETLus
5	59a	Quick Connector 1 (Not Shown)	Various	Various	Straight shape, type 250. For connecting pump .	cURus
						cETLus
5	59b	Quick Connector 2 (Not Shown)	Various	Various	Flag shape, type 110. For connecting micro switch.	cURus
						cETLus
5	60	Heati-Shrinkable Tube (Not Shown)	Various	Various	Rated 600 V, VW-1, 125°C. Enclosed quick connectors.	cURus
2	61	Marking Label (Not Shown)	Various	Various	Rated 80°C for ABS material surface. Met UL 969. Adhered on bottom cover surface.	UR
18	62	Pressure Gauge	Various	Various	Max. measuring range 20bar.	NR
20	63	Control PCB Bracket	LG CHEMICAL LTD	LUPOY GN5001RFH	PC+ABS. Rated V-0, HWI=2, HAI=0, CTI=2, 80 °C, Min. 2.2 mm thick. Fixed to Main Housing by screws.	cURus
24	64	Thermostat	FOSHAN KEHUA ELECTRIC APPLIANCE CO LTD	KSD301-G	Only for CM5418E-UL, CM5706-UL, CM5706A-UL, CM5418I-UL, CM5418IA-UL. Rated 125VAC, 16A, 50/60 Hz, T170, endurance 100,000 cycles.	UR
			TONGBAO-HUALONG CONTROLS CO LTD	KSD301-G	Only for CM5418E-UL, CM5706-UL, CM5706A-UL, CM5418I-UL, CM5418IA-UL. Rated 125VAC, 16A, 50/60 Hz, T170, endurance 100,000 cycles.	cURus
			FOSHAN TIANPENG THERMOSTATS CO LTD	T1/33	Only for CM5418E-UL, CM5706-UL, CM5706A-UL, CM5418I-UL, CM5418IA-UL. Rated 125VAC, 16A, T170, endurance 100,000 cycles.	cURus
27	65	Main Housing 2	KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 1.5 mm thick.	cURus
28	66	Top Housing 2	KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 1.5 mm thick. Fixed to Main Housing 2 by screws.	cURus
28	67	Top Cover 2	KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 1.5 mm thick. Fixed to Top Housing 2 by screws.	cURus
29	68	Insulation Plate	SUZHOU OMA Y OPTICAL MATERIALS CO LTD	SE42	PC. Rated V-0, HWI=0, HAI=4, 80 °C, min. 0.2 mm thick. Secured to Main Bracket. For separating Power PCB live part from Main Housing 2 and Top Housing 2, so that the spacing is more than 12.7 mm.	UR

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
44	69	Control Panel	CHI MEI CORPORATION	PA-757(+)	Only for CM5418I-UL. ABS. Rated HB, HWI=4, HAI=0, CTI=0, 80 °C, Min. 1.5 mm thick. Fixed to Top Housing by hooks.	cURus
			KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	Only for CM5418I-UL. ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 1.5 mm thick. Fixed to Top Housing by hooks.	cURus
54	70	Top Cover 3	KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	Only for CM5432-UL. ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 1.5 mm thick. Fixed to Top Housing 3 by screws.	cURus
55	71	Back Cover	HANWHA TOTAL PETROCHEMICAL CO LTD	HJ730L	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=2, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
			HYOSUNG CORP	HJ801R	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
			Lanzhou Petrochemical Research Center, PetroChina Company Limited	H8020	Only for CM5432-UL. PP. Rated HB, 110°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
56	72	Base	HANWHA TOTAL PETROCHEMICAL CO LTD	HJ730L	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=2, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Main Housing 3 by screws.	cURus
			HYOSUNG CORP	HJ801R	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Main Housing 3 by screws.	cURus
			Lanzhou Petrochemical Research Center, PetroChina Company Limited	H8020	Only for CM5432-UL. PP. Rated HB, 110°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Main Housing 3 by screws.	cURus
56	73	Bottom Cover 2	HANWHA TOTAL PETROCHEMICAL CO LTD	HJ730L	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=2, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Base by screws.	cURus
			HYOSUNG CORP	HJ801R	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Base by screws.	cURus
			Lanzhou Petrochemical Research Center, PetroChina Company Limited	H8020	Only for CM5432-UL. PP. Rated HB, 110°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Base by screws.	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
57	74	Main Housing 3	HANWHA TOTAL PETROCHEMICAL CO LTD	HJ730L	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=2, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
			HYOSUNG CORP	HJ801R	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
			Lanzhou Petrochemical Research Center, PetroChina Company Limited	H8020	Only for CM5432-UL. PP. Rated HB, 110°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick.	cURus
58	75	Top Housing 3	HANWHA TOTAL PETROCHEMICAL CO LTD	HJ730L	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=2, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Main Housing 3 by screws.	cURus
			HYOSUNG CORP	HJ801R	Only for CM5432-UL. PP. Rated HB, 115°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Main Housing 3 by screws.	cURus
			Lanzhou Petrochemical Research Center, PetroChina Company Limited	H8020	Only for CM5432-UL. PP. Rated HB, 110°C. HWI=3, HAI=0, CTI=0. Min. 1.5 mm thick. Fixed to Main Housing 3 by screws.	cURus
59	76	Water Boiler 2	GuangDong Xinbao Electrical Appliances Holdings Co., Ltd	CM5432	Only for CM5432-UL. Aluminum. Minimum thickness 2.8mm. Consists of two parts, secured together by screws, and then seal by Boiler Seal Ring. Consisted of following parts 76a thru 76e. Refer to Illustration 7 for details.	NR
59	76a	Body (Not Shown)	Various	Various	Aluminum. Consisted of three parts, secured together by screws, measured min. 3.0 mm thick.	NR
59	76b	Heat Element 2 (Not Shown)	GuangDong Xinbao Electrical Appliances Holdings Co., Ltd	120V 1300W	Rated 120V 1300W. Heating wire Cr20Ni80, 10.5-12.3 ohms with SUS201 tube Φ 8.0mm. Measured 0.7mm thick, insulated by MgO, cool pin Φ 2.0*40mm, with Φ 5mm*6.5mm height silicone caps for insulated. Refer to illustration 8 for details.	NR
59	76c	Heat Element Clamp Sheet (Not Shown)	Various	Various	SECC. Thickness 1.0mm. Secured on Main Bracket by screws.	NR
59	76d	Water Circulating Tube (Not Shown)	Various	Various	DL03. Measured 0.75 mm thick. The pin holes arranged on the body, secured to Body by a screw.	NR
59	76e	Seal Ring (Not Shown)	WYNCA TINYO SILICONE CO LTD	TY171	SIR. Rated HB, 150°C, measured 2.0mm thick. Secured on water outlet.	UR

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
59	77	Thermal Fuse Assembly 2	Various	Various	Only for CM5432-UL. Consists of item 77a thru 77c. Two provided.	NR
59	77a	Thermal Fuse Tube (Not Shown)	Various	Various	Silicone rubber tubing with outer fiberglass sleeving, rated 600V, VW-1, 200°C at least. 1.0 mm thick, provided to cover thermal fuse	cURus
59	77b	Thermal Fuse (Not Shown)	THERM-O-DISC INC, SUB OF EMERSON ELECTRIC CO	G4A00216C	Two provided. Rated 250Vac/10A or 120Vac/15A, Tf=216°C. Sleeved by Thermal Link Tube, then clamped tightly to Broiler by clamp sheet by screw.	cURus
			SCHOTT Japan Corporation	SF214R0	Two provided. Rated 250Vac/15A, Tf=216°C. Sleeved by Thermal Link Tube, then clamped tightly to Broiler by clamp sheet by screw.	cURus
59	77c	Clamp Sheet (Not Shown)	Various	Various	SECC. Thickness 1.0mm. Secured on boiler by screw.	NR
60	78	Combination PCB	Various	Various	Only for CM5432-UL. Rated V-0, 130°C, Min. 1.6 mm thick. Met UL 796. Secured on Control Panel 2 by hooks.	UR
60	79	Relay 2	SHENZHEN YUANZE ELECTRIC CO LTD	Y3F-SS-112DMF	Only for CM5432-UL. Rated 15A/125VAC, coil voltage 12VDC, T105, endurance 100,000 cycles.	cURus
60	80	Varistor 2	Various	Various	Only for CM5432-UL. Rated Min. 470V, T105 at least.	cURus
60	81	X2 Capacitor 2	Various	Various	Rated 0.22uF, Min. 250VAC, T105 at least.	cURus
60	82	Combination PCB Insulation Sheet	SABIC INNOVATIVE PLASTICS US LLC	FR6	Only for CM5432-UL. PC. Rated V-0, 125°C, HWI=1, HAI=0, CTI=3. Minimum thickness 0.23mm. Secured to Control Panel 2 by hooks. For separating Combination PCB live part from Main Housing 3 and Top Housing 3, so that the spacing is more than 12.7 mm.	cURus
62	83	Control Panel 2	LG CHEM LTD	LUPOY GN5001RF(T)	Only for CM5432-UL. PC+ABS. Rated V-0, HWI=2, HAI=0, CTI=2, 80°C, min. 1.5 mm thick. Secured to Top Housing by hooks.	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
54	84	Press Key	CHI MEI CORPORATION	PA-757(+)	Only for CM5432-UL. ABS. Rated HB, HWI=4, HAI=0, CTI=0, 80 °C, Min. 1.5 mm thick. Fixed to Control Panel 2 by hooks.	cURus
			KOREA KUMHO PETROCHEMICAL CO LTD	ABS-750SW	Only for CM5432-UL. ABS. Rated HB, HWI=3, HAI=0, CTI=0, 85 °C, Min. 1.5 mm thick. Fixed to Control Panel 2 by hooks.	cURus
			LG Chem Huizhou Petrochemical Co Ltd	HP181	Only for CM5432-UL. ABS. Rated HB, HWI=4, HAI=0, CTI=0, 75 °C, Min. 1.6 mm thick. Fixed to Control Panel 2 by hooks.	cURus
67	85	Relay	SHENZHEN YUANZE ELECTRIC CO LTD	Y3F-SS-112DM	Only for CM5418M-UL. Rated 15A/125VAC, coil voltage 12VDC, T105, endurance 100,000 cycles.	cURus
67	86	Current Fuse	Various	Various	Only for CM5418M-UL. F1, F2. Rated 250V, 2A.	cURus
67	87	Resistor	Various	Various	Only for CM5418M-UL. Wire-Wound resistor. Rated 39ohm, 2W.	NR
67	88	Varistor	Various	Various	Only for CM5418M-UL. Rated Min. 470V, T125 at least.	cURus
67	89	X2 Capacitor	Various	Various	Only for CM5418M-UL. Rated 0.22uF, Min. 275VAC, T105 at least.	cURus

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 the following spacing are maintained through air and over surfaces of insulating material between current-carrying parts of opposite polarity and between bare live part and other non-current-carrying conductive parts.

	Clearance	Creepage distances
Basic insulation	1.6 mm	2.4 mm
Functional insulation	1.6 mm	2.2 mm

Minimum 3.1 mm spacing between current-carrying parts and conductive enclosure.

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. **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.

6. **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.

7. **Schematics** - Refer to Illustration Nos. 3, 3a thru 3v for schematics requiring verification during Field Representative Inspection Audits.

8. **Markings** - The product is marked on a labeling system as described in item no. 61 of Section 4.0 with the following:

- applicant's name, brand name or MULTIPLE LISTEE's name
- model number
- date of manufacture
- electrical ratings (volts, power & frequency)

9. **Cautionary Markings** - The requirements as follows:

Cautionary markings are included the following and not less than 2.4 mm in height.
Refer to Illustration 1 for layouts.

10. **Installation, Operating and Safety Instructions** - Instructions for installation and use of this product are provided by the manufacturer as required by the standard. Upper case and lower case letters shall not be less than 2.1 mm and 1.6 mm in height respectively. The phrases "IMPORTANT SAFEGUARDS" and "SAVE THESE INSTRUCTIONS" shall be in letters not less than 4.8 mm in height. (Refer to Illustration 2, 2a to 2b for details.).

6.0 Critical Features

11. Carton - A carton for the product shall be marked with "Household Use Only" or the equivalent. The marking shall:

a) Be located on at least one outside surface, and

b) Appear in lettering not less than the height specified as below:

Smallest dimension (mm)

Minimum height of lettering in inches (mm)

The dimension of the carton panel (mm)

0~152

3.2

152~254

4.8

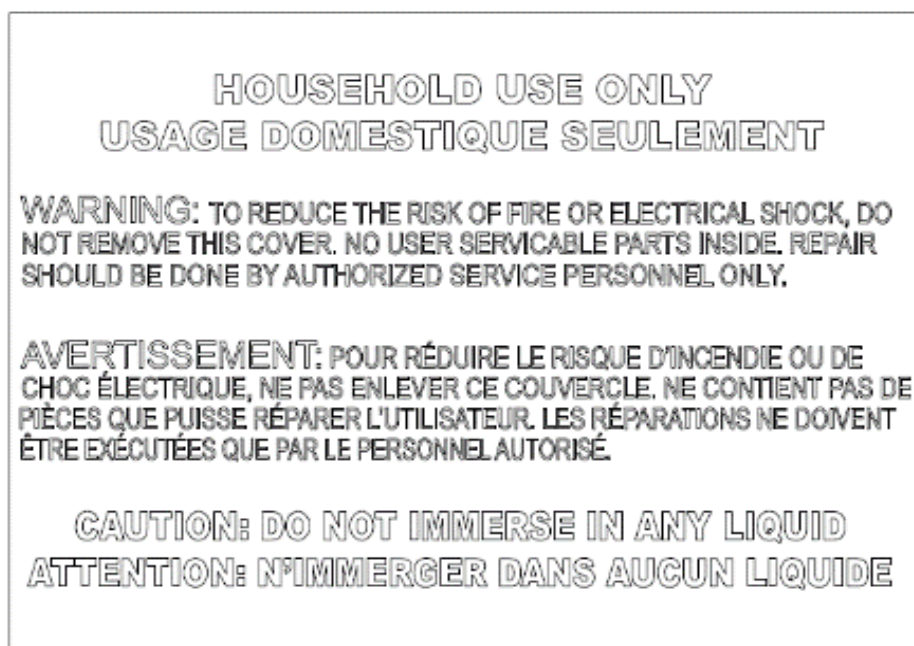
more than 254

6.4

12. Logo Dependent Marking - The required marking is not dependent on the specific ETL logo applied to the product as authorized by the Authorization to Mark.

7.0 Illustrations**Illustration 1 - Cautionary Marking**

or



Note: The Cautionary Marking words should be in letters not less than 2.4 mm in height.

7.0 Illustrations

Illustration 2 - Instruction Manual

IMPORTANT SAFEGUARDS

Before using the electrical appliance, the following basic precautions should always be followed including the following:

1. Read all instructions.
2. Before using check that the voltage of wall outlet corresponds to rated voltage marked on the rating plate.
3. This appliance has been incorporated with a polarized plug.
4. To protect against fire, electric shock and injury to persons do not immerse cord, plug, in water or other liquid.
5. Remove plug from wall outlet before cleaning and when not in use. Allow appliance cool down completely before taking off, attaching components or before cleaning.
6. Do not operate any appliance with a damaged cord or plug or after the appliance malfunctions, or is dropped or damaged in any manner. Return appliance to the nearest authorized service facility for examination, repair or electrical or mechanical adjustment.
7. The use of accessory attachments not recommended by the appliance manufacturer may result in fire, electric shock or injury to persons.
8. Place appliance on flat surface or table, do not hang power cord over the edge of table or counter.
9. Ensure the power cord do not touch hot surface of appliance.
10. Do not place the coffee maker on hot surface or beside fire in order to avoid to be damaged.
11. To disconnect, turn any control to "off," then remove plug from wall outlet. Always hold the plug. But never pull the cord.
12. Do not use appliance for other than intended use and place it in a dry environment.
13. Close supervision is necessary when your appliance is being used by or near children.
14. Be careful not to get burned by the steam.
15. Do not touch the hot surface of appliance (such as steam wand, and the steel mesh just boiling). Use handle or knobs.
16. Do not let the coffee maker operate without water.
17. Scalding may occur if the water tank is removed during the brewing cycles.
18. Do not remove the metal funnel when appliance in brewing coffee or when steam and hot water escape from metal funnel and ensure to release the pressure in water tank before removing metal funnel.
19. Connect plug to wall outlet before using and turn any switch off before plug is removed from wall outlet.
20. Relief pressure through steam wand before removing tank cover or metal funnel.
21. This appliance is not intended for used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliances by a person responsible for their safety.
22. Children should be supervised to ensure that they do not play with the appliance.
23. **This appliance is intended to be household use only.**
24. Do not use outdoors.
25. Do not place on or near a hot gas or electric burner, or in a heated oven.

SAVE THESE INSTRUCTIONS

7.0 Illustrations

Illustration 2a - Instruction Manual

NOTE of PLUG

This appliance has a polarized plug (one blade is wider than the other). To reduce the risk of electric shock, this plug is intended to fit into a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not attempt to modify the plug in any way.

NOTE of CORD

a) A short power-supply cord (or detachable power-supply cord) is provided to reduce the risk resulting from becoming entangled in or tripping over a longer cord.

b) Longer detachable power-supply cords or extension cords are available and may be used if care is exercised in their use.

c) If a longer detachable power-supply cord or extension cord is used:

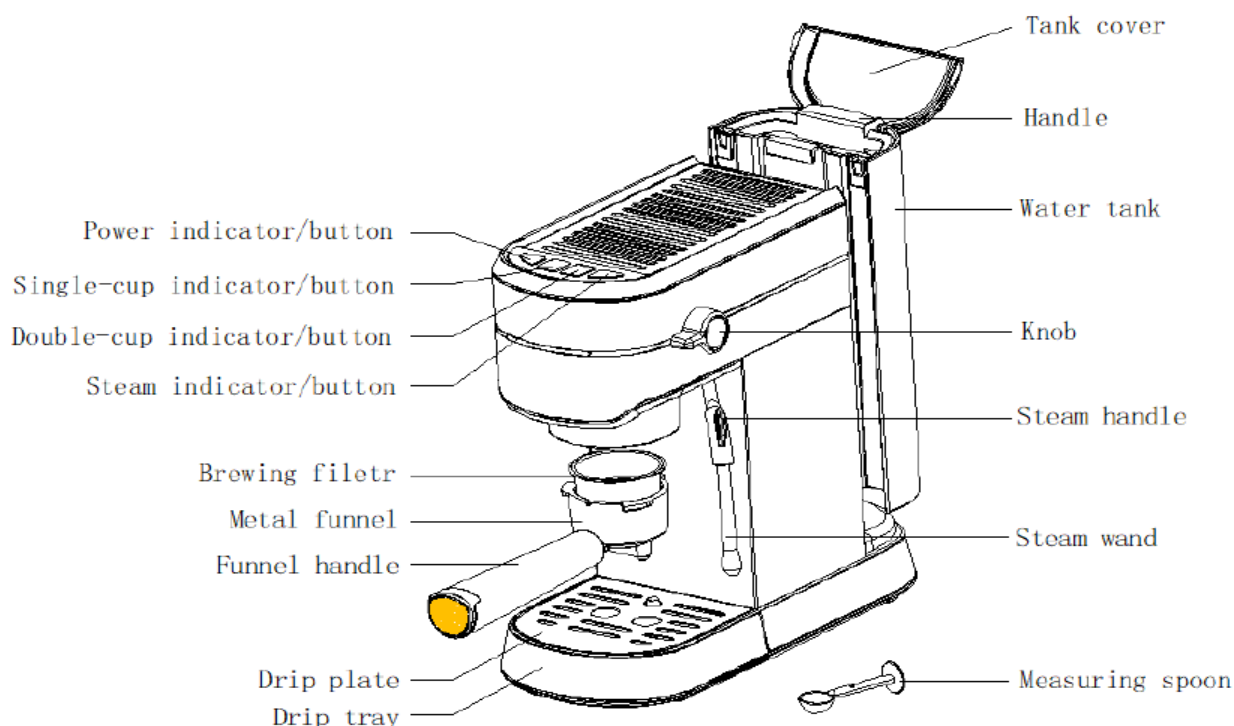
1) The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance;

2) The cord should be arranged so that it will not drape over the countertop or tabletop where it can be pulled on by children or tripped over unintentionally; and

3) If the appliance is of the grounded type, the cord set or extension cord should be a grounding-type 3-wire cord.

KNOW YOUR COFFEE MAKER

(Product may be subject to change without prior notice)



7.0 Illustrations

Illustration 2b - Instruction Manual

BEFORE THE FIRST USE

To ensure the first cup of coffee tastes excellent, you should rinse the coffee maker with warm water as follows:

1. Remove the plug at the bottom of the tank.
2. Pour water into water tank, the water level should not exceed the "MAX" mark in the water tank. Then close the tank cover.

Note: the appliance is supplied with a water tank for easy cleaning, you can fill the water tank with water firstly, and then put the water tank into the appliance.

3. Set brewing filter into metal funnel (no coffee in brewing filter).
4. Place an espresso cup on drip plate. Make sure the knob is at the horizontal position (off-position).

Note: the appliance is not equipped with jug, please use your jug or coffee cup.

5. Connect to power source, press the power button "☺". The power indicator will be illuminated and single/double-cup/steam indicator will flashing.

6. The appliance will start heating. When single/double-cup/steam indicator becomes solid, it shows the pre-heating is finished. Press double-cup button "☺☺", wait for a moment. The water will flow out.

7. When the appliance stops pumping water automatically, you can pour the water in container out then clean them thoroughly, now you can start brewing.

Note: There may be noise when pumping the water on the first time, it is normal, the appliance is releasing the air in the appliance. After about 20s, the noise will disappear.

PRE-HEATING

To make a cup of good hot Espresso coffee, we recommend you preheating the appliance before making coffee, including the metal funnel, brewing filter and cup, so that the coffee flavour can not be influenced by the cold parts.

1. Remove the water tank and open the tank cover to fill it with desired water, the water level should not exceed the "MAX" mark in the water tank. Then place the water tank into the appliance properly.
2. Set brewing filter into metal funnel, make sure the tube on the funnel aligns with groove in the appliance, then insert the funnel into the appliance from the "LOCK" position, and you can fix them into coffee maker firmly through turn it anticlockwise until it is at the "CLOSE" position.
3. Place an espresso cup on drip plate.
4. Then connect the appliance to power supply source. Make sure the knob is at the horizontal position (off-position).
5. Press the power button "☺". The power indicator will be illuminated and single/double-cup/steam indicator will flashing.
6. When single/double-cup/steam indicator becomes solid, it shows the pre-heating is finished.

will come out from the steam outlet. Froth milk in the way moving vessel round from up to down.

Warning: Be sure to operate carefully as the steam may result in scald to person.

5. When the required purpose is reached, you can turn the knob off.

Note: Clean steam outlet with wet sponge immediately after steam stops generating, but care not to hurt!

6. Pour the frothed milk into the espresso prepared, now the cappuccino is ready. Sweeten to taste and if desired, sprinkle the froth with a little cocoa powder.

The steam wand can be used to froth milk singly or make hot beverages like drinking chocolate and water.

Note: After making steam, you can press "Single-cup" or "Double-cup" button immediately to brew coffee again. The coffee indicator will flashing quickly if the temperature is too high, at this time, you need to reduce the temperature by following the operation as below: Turn the knob to "Hot water" setting "☺☺", and then the hot water will dispense. When the temperature goes down, the pump will stop automatically and you should turn the knob off, then you can brew coffee again.

If you do not want to brew coffee when the high-temperature warning occurs, you can press the "Single-cup" or "Double-cup" button again to cancel.

SET THE DISPENSING AMOUNT

1. Dispensing amount of single cup

Hold and press the "Single-cup" button for 3 seconds to enter into the mode of setting the dispensing amount. And then press the "Single-cup" button again, the coffee starts to dispense and the "Single-cup indicator" flashes at the same time, when the desired amount is got, press the "Single-cup" button again, the coffee stops dispensing. At that time, the setting for the dispensing amount of single cup is finished and it will be saved for next operation. The adjustable dispensing amount of single cup ranges between 25ml and 60ml.

2. Dispensing amount of double cup

Hold and press the "Double-cup" button for 3 seconds to enter into the mode of setting the dispensing amount, then follow the operation of setting the dispensing amount of single cup. The adjustable dispensing amount of double-cup ranges between 70ml and 110ml.

3. Restore factory setting

Simultaneously hold and press the "Single-cup" and "Double-cup" buttons for 3 seconds to recover the factory setting of dispensing amount.

AUTOMATICALLY POWER-OFF FUNCTION

1. After pressing power button, if there is no any operation within 29 minutes, the unit will power off automatically.
2. After pressing power button, if there is no any operation after pump running about 215ml water, the pump will stop automatically.

MAKE ESPRESSO COFFEE

1. Remove the funnel by turning it in clockwise. Add ground coffee to brewing filter with measuring spoon, a spoon ground coffee power can make about a cup of top-grade coffee, then press the ground coffee powder tightly with the measuring spoon.
2. Set brewing filter into metal funnel, make sure the tube on the funnel aligns with groove in the appliance, then insert the funnel into the appliance as indicating of "LOCK" mark, and you can fix them into coffee maker firmly through turning it anticlockwise until it is at the "CLOSE" position.
3. Then place the hot cup on drip plate.
4. Select single cup "☺" or double-cup "☺☺" according to your demand and then press the corresponding button of the selected function. After waiting for a moment, there will be coffee flowing out.
5. The appliance will stop working when the coffee-brewing is finished, and then your coffee is ready now.

WARNING: Do not leave the coffee maker unattended during making the coffee, as you need operate manually sometimes!

6. After finishing making the coffee, you can take the metal funnel out through turn clockwise, then pour the coffee residue out.

MAKE HOT WATER

1. After finish preheating, turn the knob to "☺☺" position, and then the hot water will dispense from steam wand. When desired amount of hot water is got, turn the knob off. Before making hot water, put a cup under the steam wand.

FROTHING MILK/ MAKE CAPPUCCINO

You get a cup of cappuccino when you top up a cup of espresso with frothing milk.

Note: during making steam, the metal funnel must be assembled in position.

Before frothing milk, release steam for 10 seconds.

Method:

1. Press the steam button "☺☺", the steam indicator will flashing. When steam indicator becomes solid, the pre-heating is finished.
2. Prepare espresso first with container big enough according to the part "MAKE ESPRESSO COFFEE".
3. Fill a jug with about 100 grams of milk for each cappuccino to be prepared, you are recommended to use whole milk at refrigerator temperature (not hot!).
- Note: In choosing the size of jug, it is recommended the diameter is not less than 70±5mm, and bear in mind that the milk increases in volume by 2 times, make sure the height of jug is enough.
4. Insert the steam wand into the milk about two centimetre, then turn the knob to the "☺☺" position, steam

3. After pressing power button, if there is no any operation after pump worked for 180s during froth milk, the pump will stop automatically.

CLEAN AND MAINTENANCE

1. Cut off power source and let the coffee maker cool down completely before cleaning.
2. Clean housing of coffee maker with moisture-proof sponge often and clean water tank, drip tray and drip plate regularly then dry them.
- Note: Do not clean with alcohol or solvent cleanser. Never immerse the housing in water for cleaning.
3. Detach the metal funnel by turning it clockwise, get rid of coffee residue inside, then you can clean it with cleanser, but at last you must rinse with clear water.
4. Clean all the attachments in the water and dry thoroughly.

CLEANING MINERAL DEPOSITS

1. To make sure your coffee maker operating efficiently, internal piping is clearly and the peak flavor of coffee, the coffee machine needs to be descaled, cleaned and maintained periodically. Descaling warning will be shown when the appliance has cumulatively worked for 500 cycles, at that time, all indicators will flash for 5 times, which means that the coffee machine needs to be performed descaling, and then the appliance will go back into normal condition. Descaling warning will be shown each time when you turn on the appliance if you do not cancel.

2. Fill the water tank with water and disorder to the MAX level (the scale of water and disorder is 4 l, the detail refers to the instruction of descaler. Please use "household descaler", you can use the citric acid (obtainable from chemist's or drug stores) instead of the descaler (the one hundred parts of water and three parts of citric acid).

3. Press "Double cup" button once to make coffee and make hot water for about 100ml. Then turn off the appliance and leave the descaling solution in the appliance for 5 minutes.

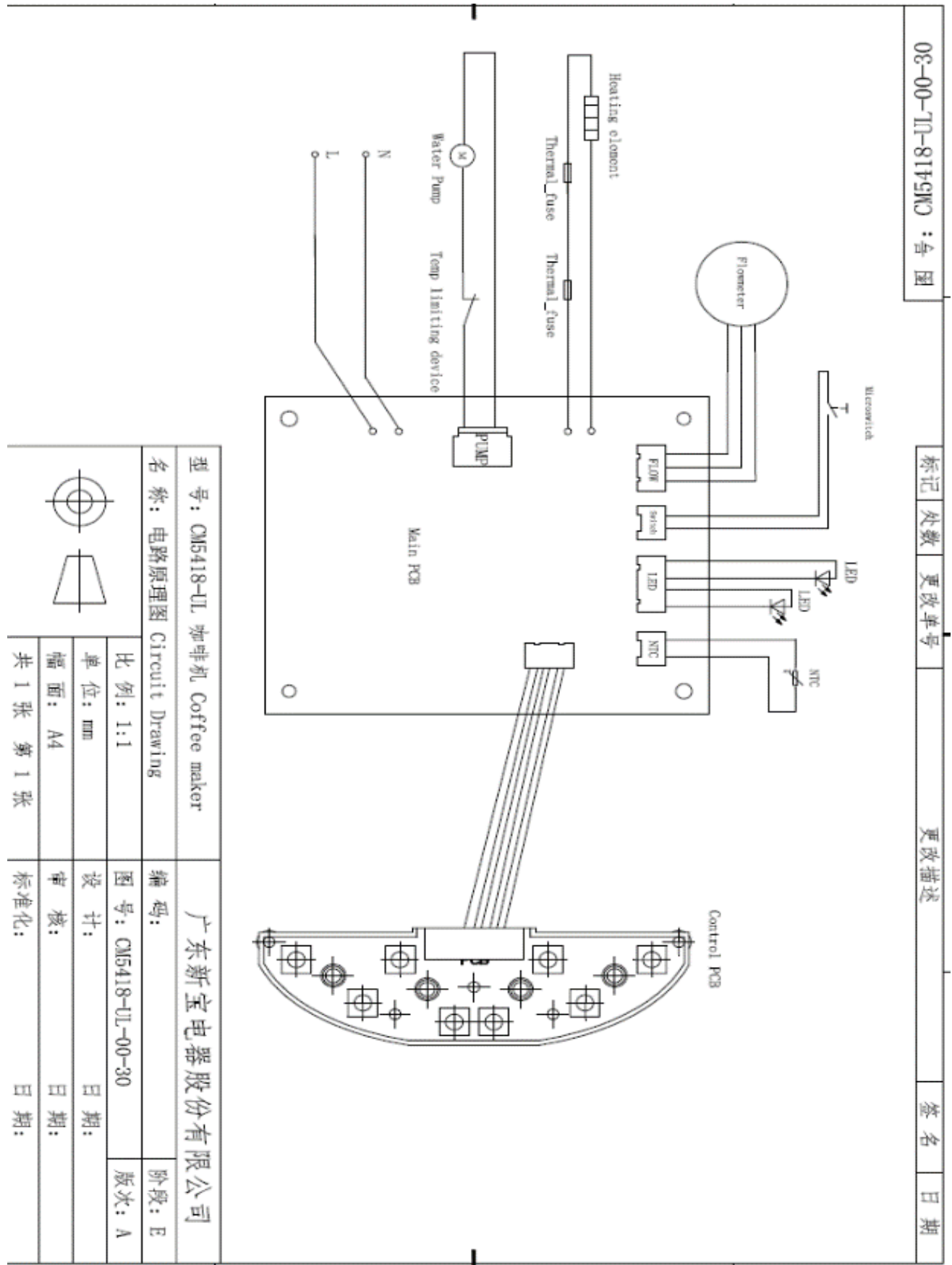
4. Turn on the appliance and repeat the Step 3 for 3 times.

5. Repeat the steps of 3 for 2 times with tap water in the MAX level (it is not necessary to wait for 5 minutes).

6. After finish descaling, you need to cancel the descaling warning: Simultaneously hold and press the "Single-cup button" + "Double-cup button" and "steam button" for 3 seconds.

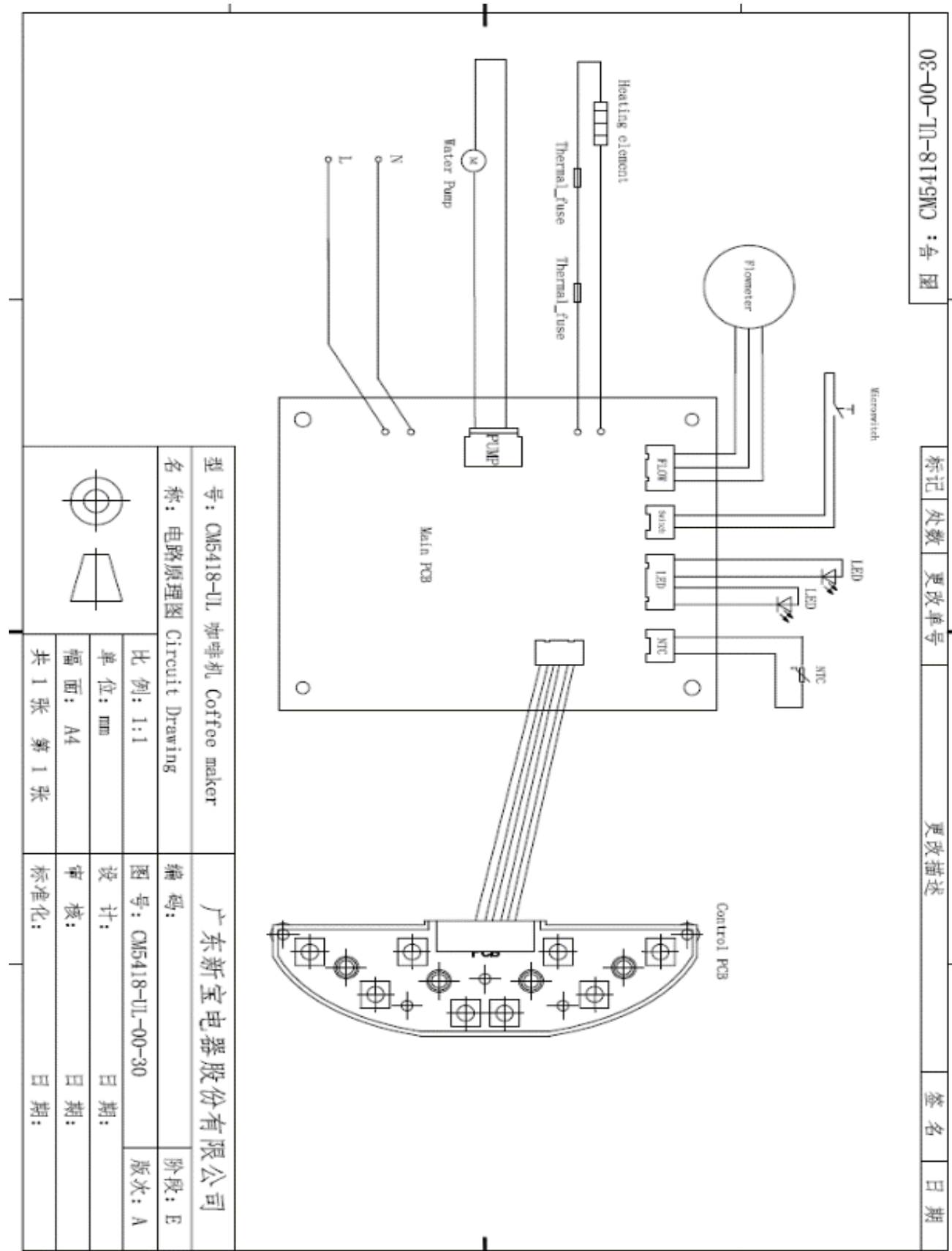
7.0 Illustrations

Illustration 3 - Circuit Diagram with Pump Protector



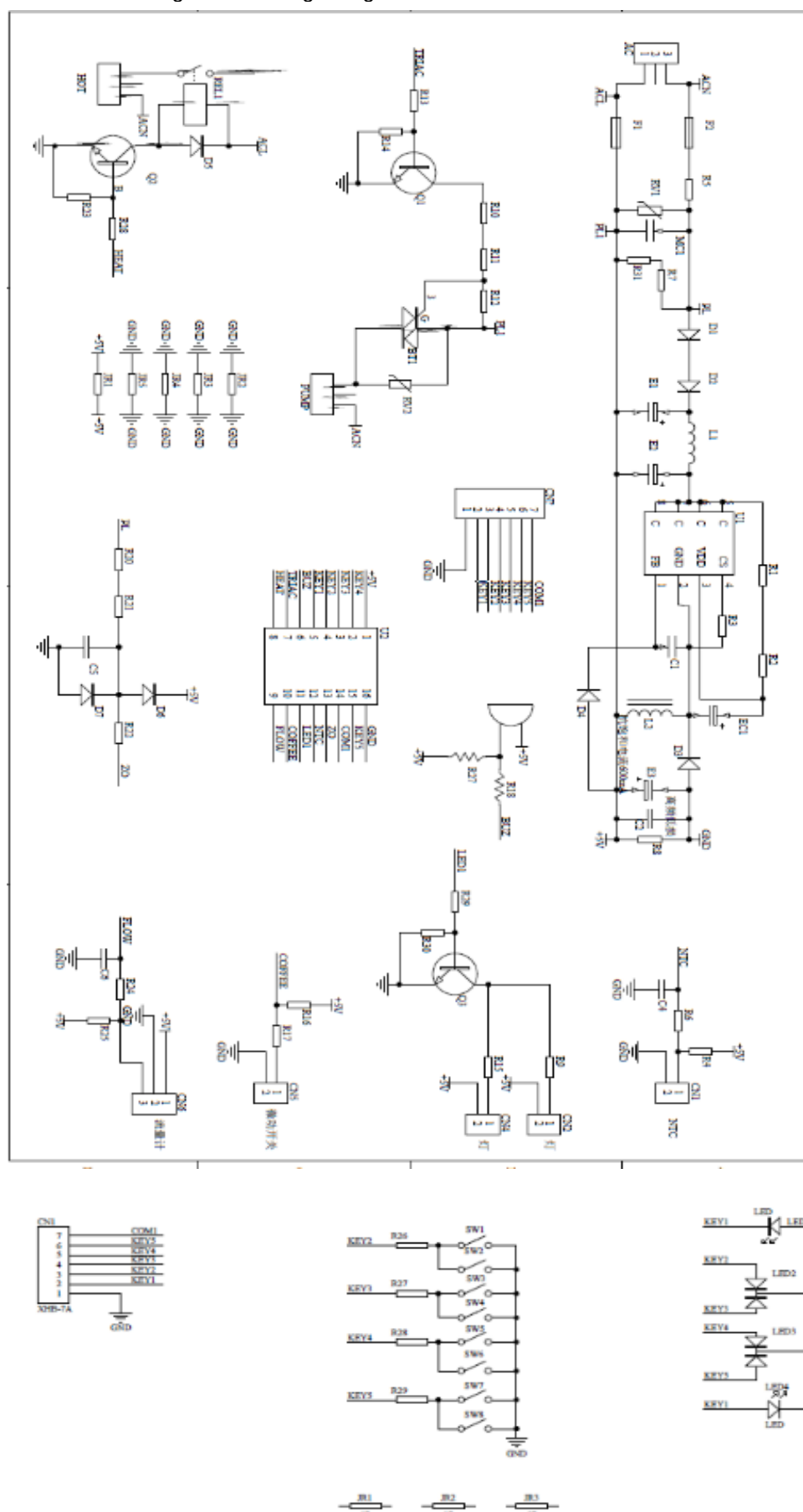
7.0 Illustrations

Illustration 3a - Circuit Diagram without pump protector



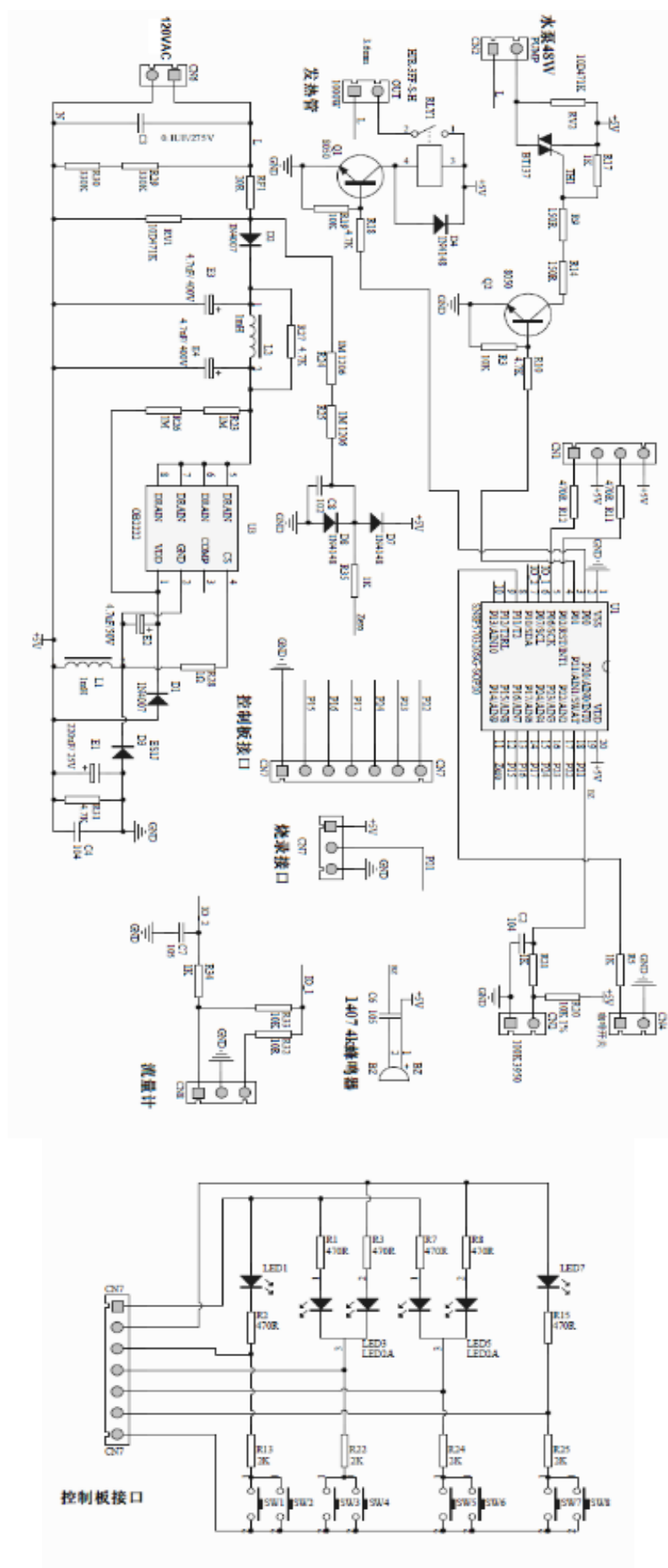
7.0 Illustrations

Illustration 3b - Circuit Diagram for Hongsheng PCB



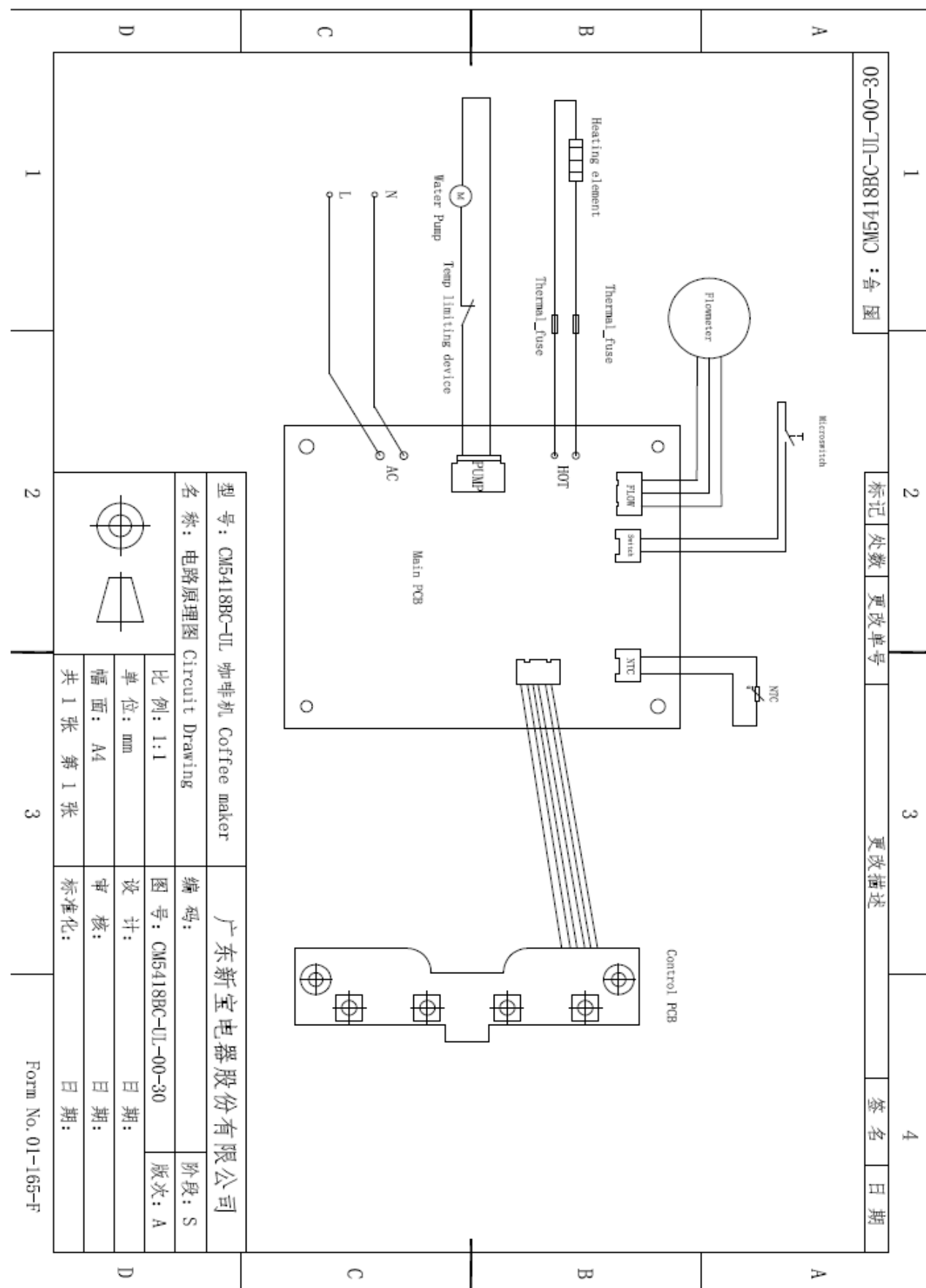
7.0 Illustrations

Illustration 3c - Circuit Diagram for Xinbao PCB



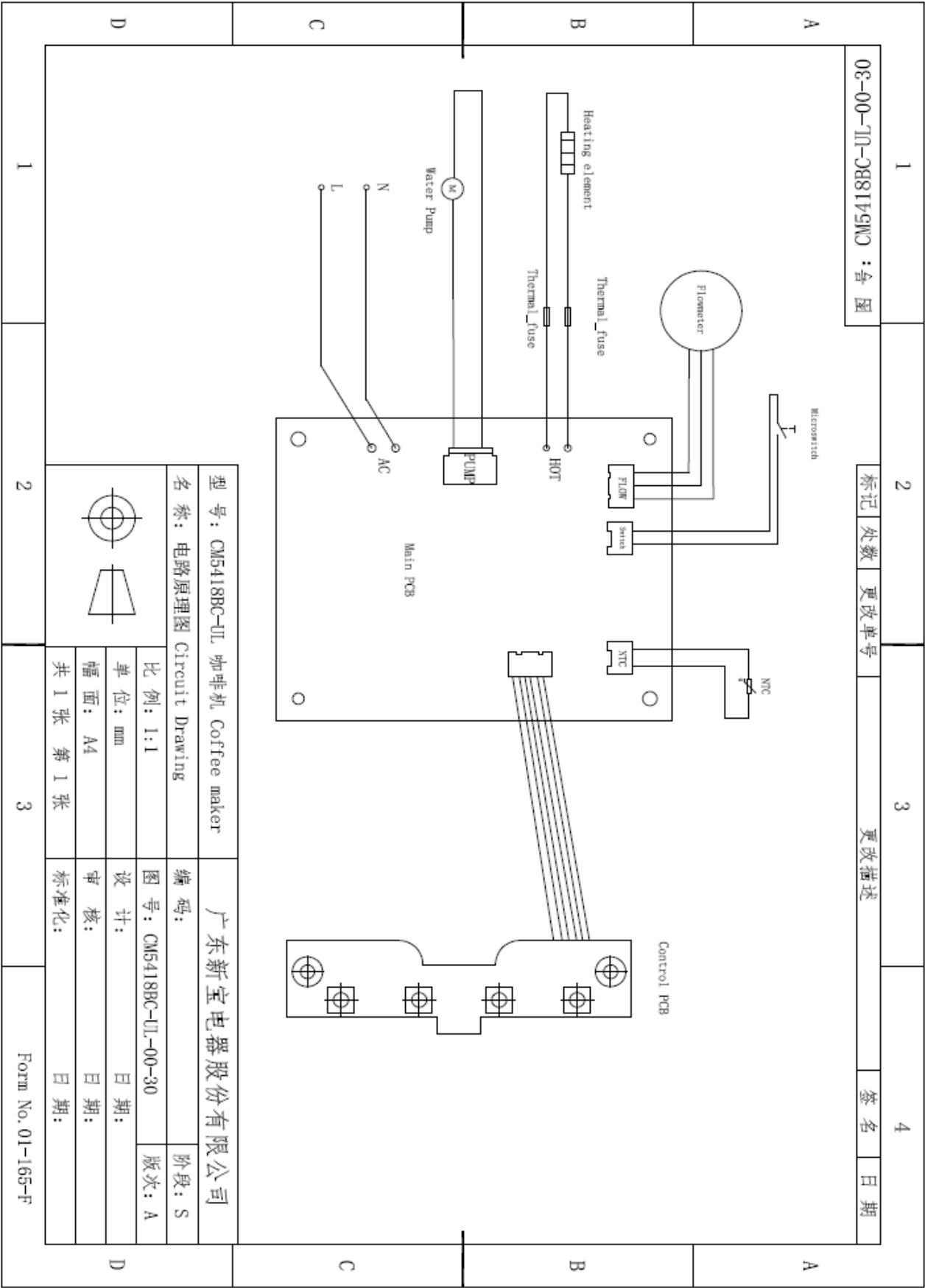
7.0 Illustrations

Illustration 3d - Circuit Diagram for CM5418BC-UL employed with Pump Protector



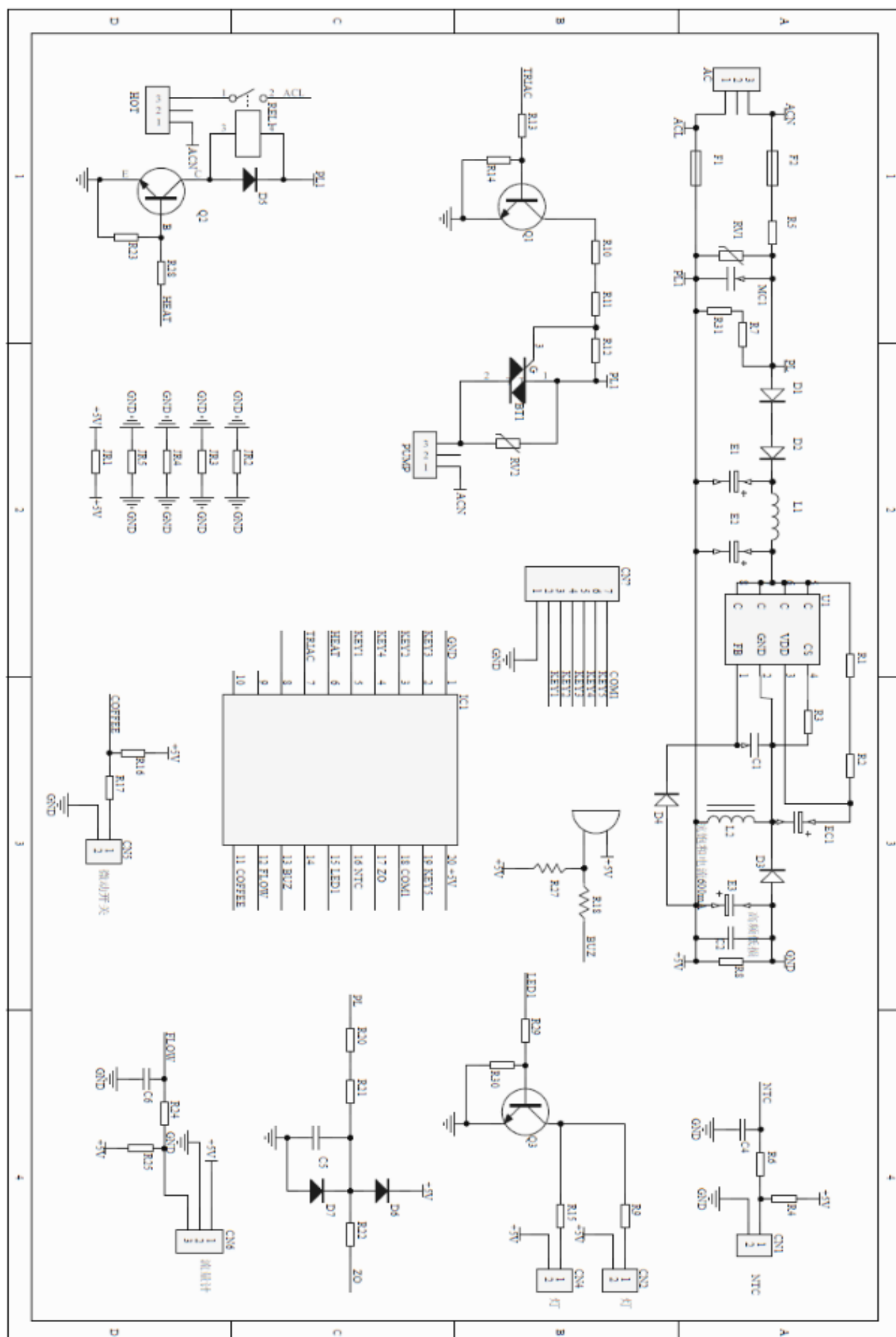
7.0 Illustrations

Illustration 3e - Circuit Diagram for CM5418BC-UL without Pump Protector



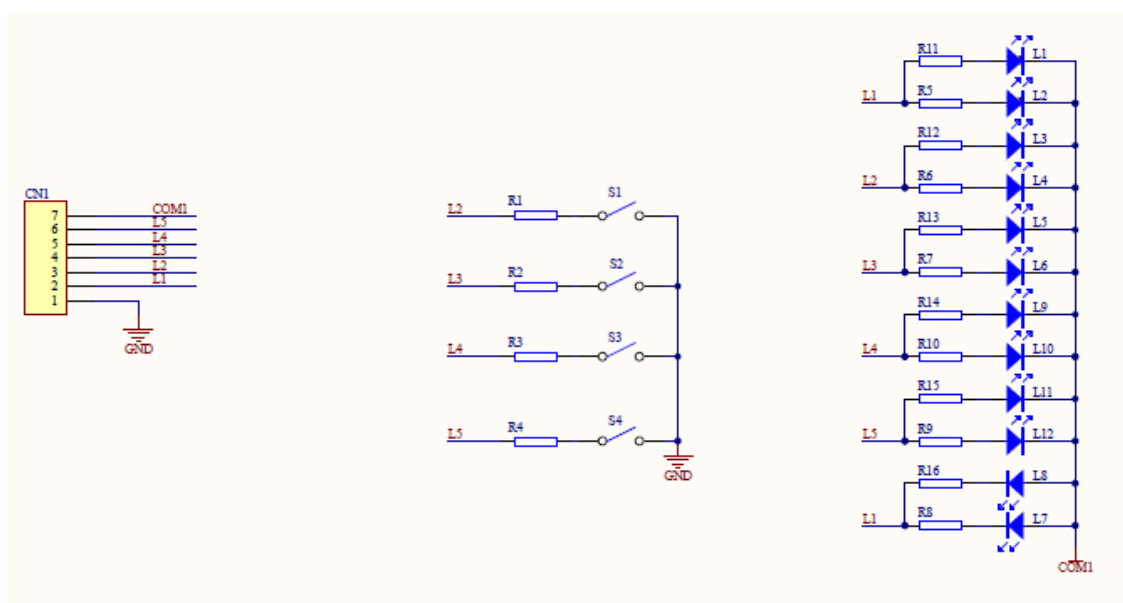
7.0 Illustrations

Illustration 3f - Circuit Diagram for CM5418BC-UL



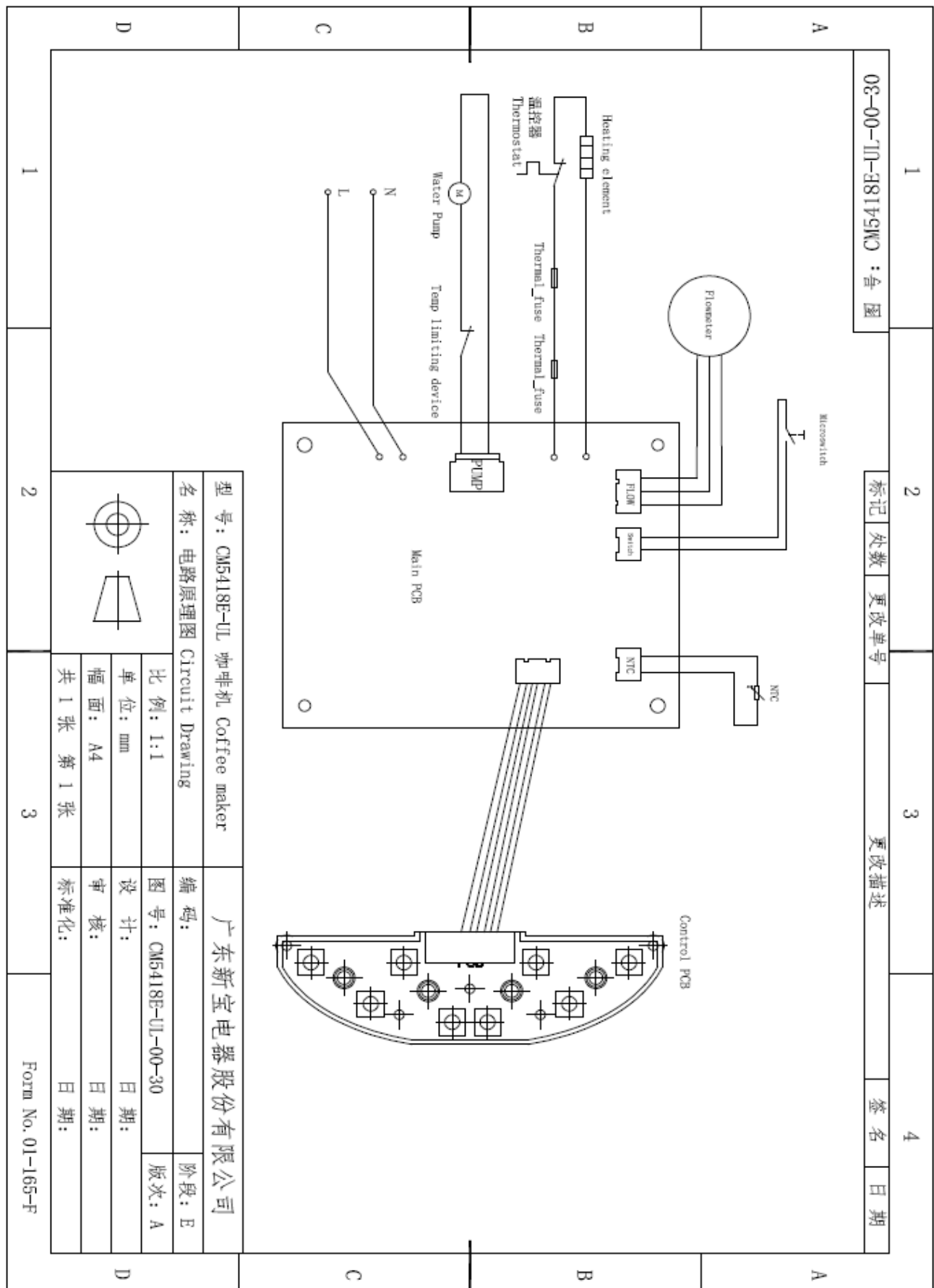
7.0 Illustrations

Illustration 3g - Circuit Diagram for CM5418BC-UL



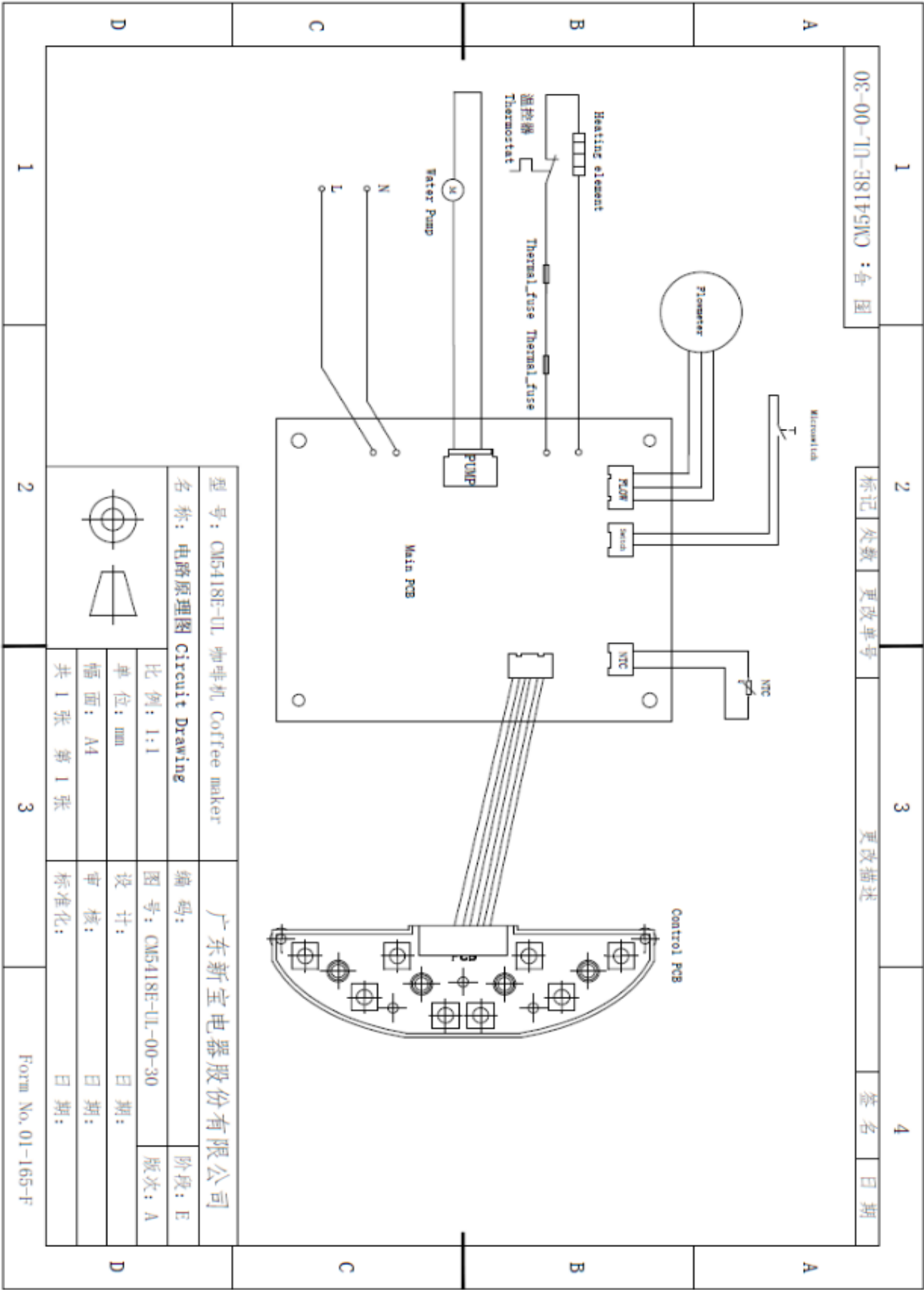
7.0 Illustrations

Illustration 3h - Circuit Diagram for CM5418E-UL employed with Pump Protector



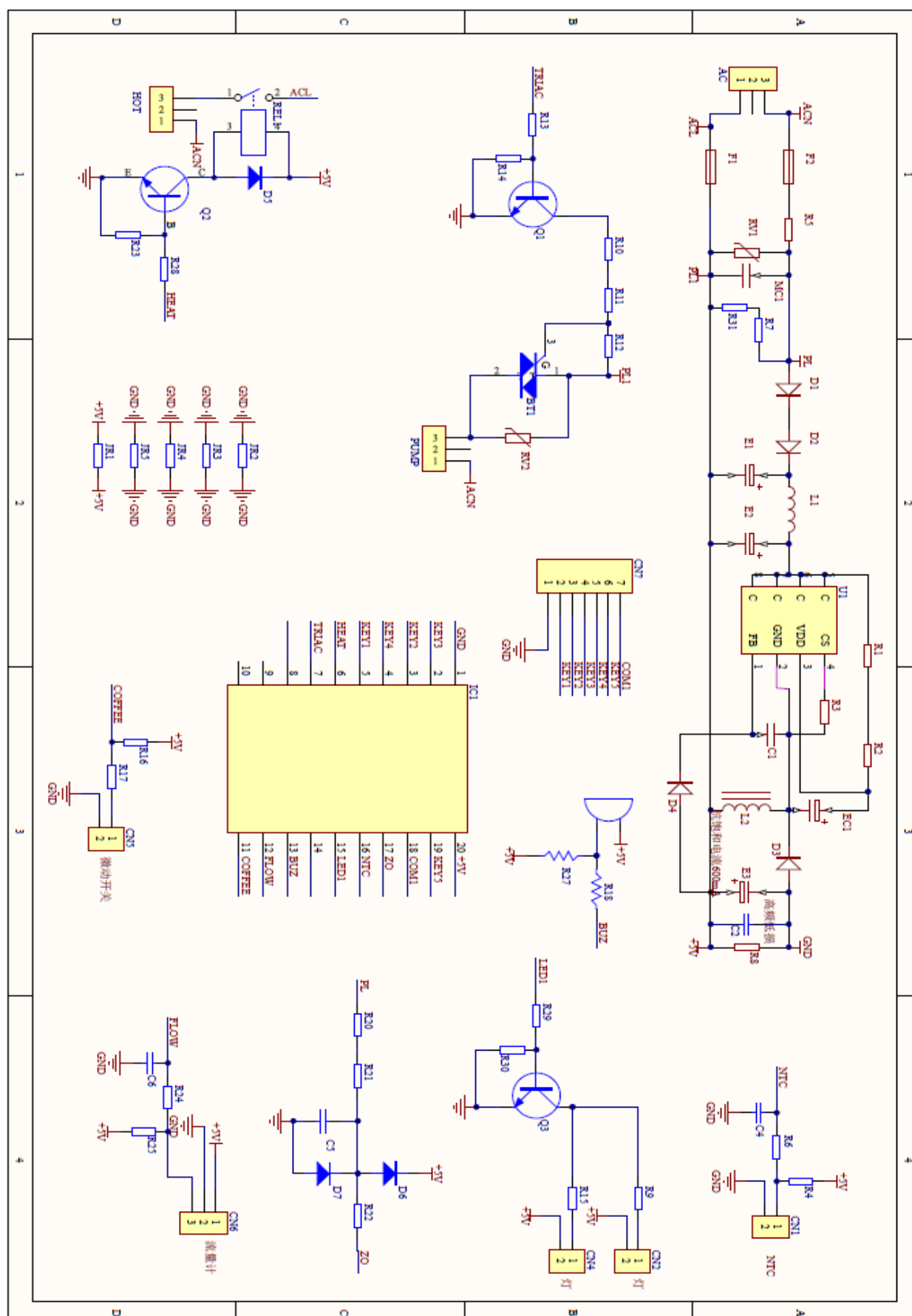
7.0 Illustrations

Illustration 3i - Circuit Diagram for CM5418E-UL without Pump Protector



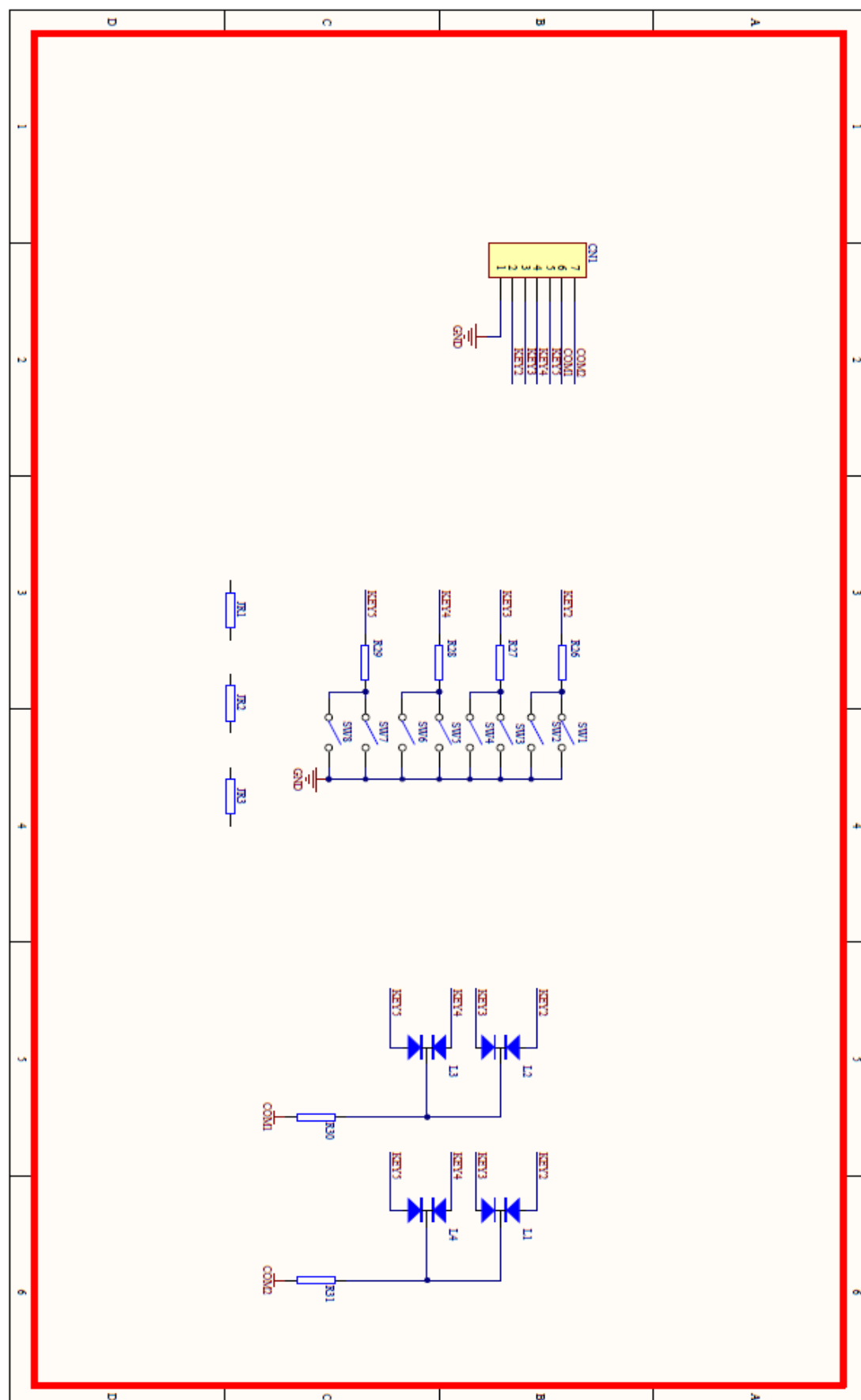
7.0 Illustrations

Illustration 3j - Circuit Diagram for CM5418E-UL



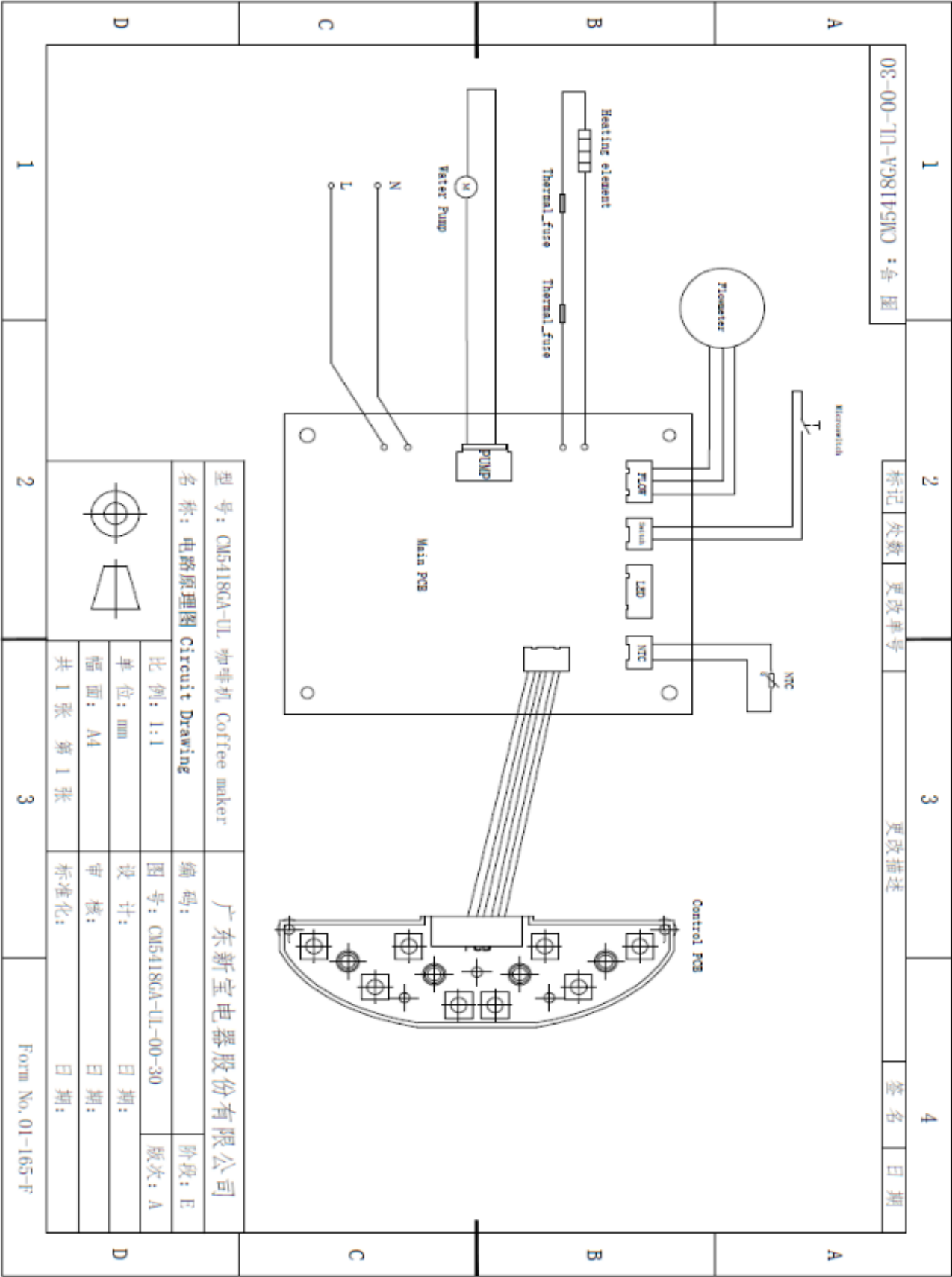
7.0 Illustrations

Illustration 3k - Circuit Diagram for CM5418E-UL



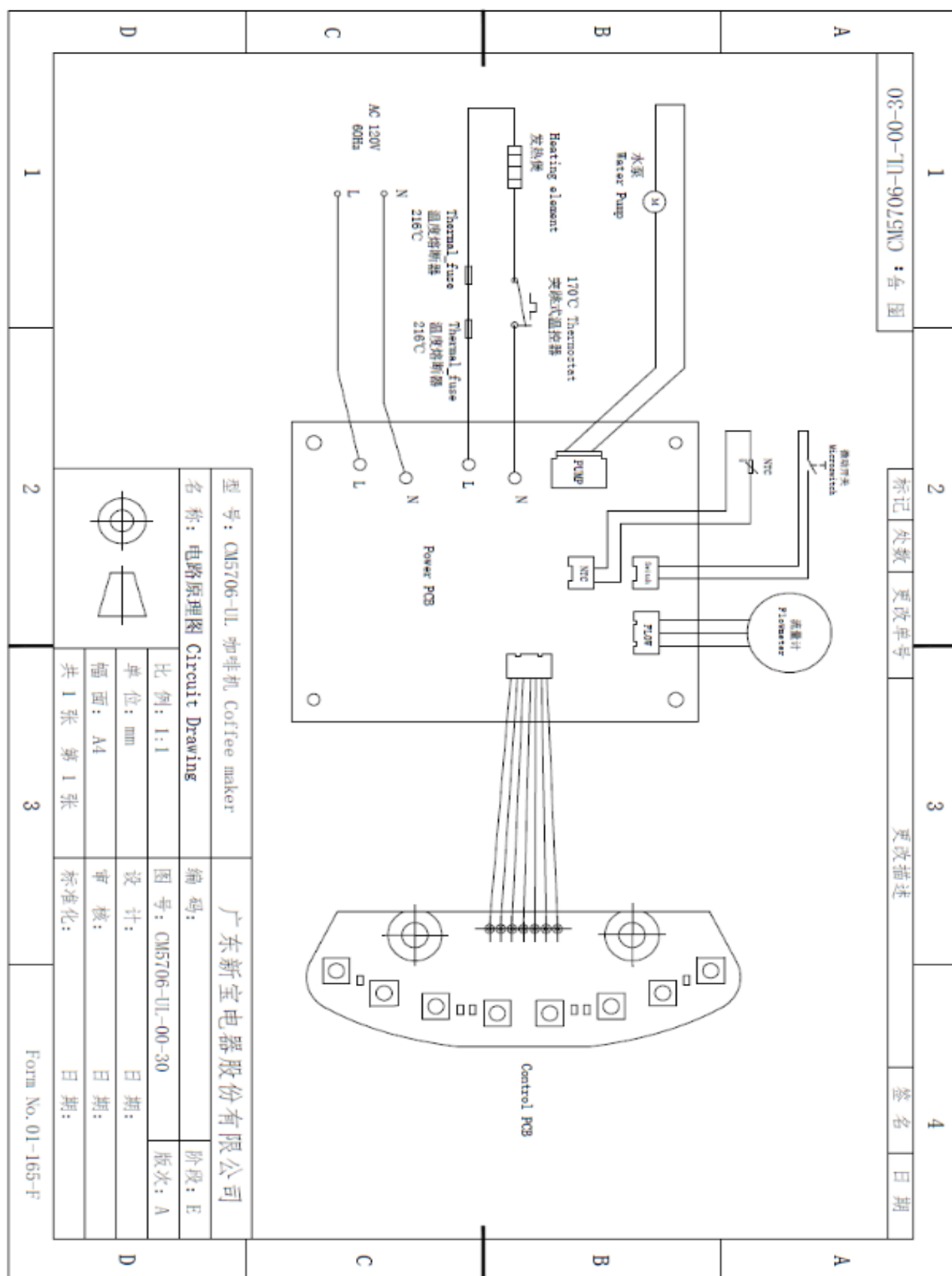
7.0 Illustrations

Illustration 3I - Circuit Diagram for CM5418GA-UL



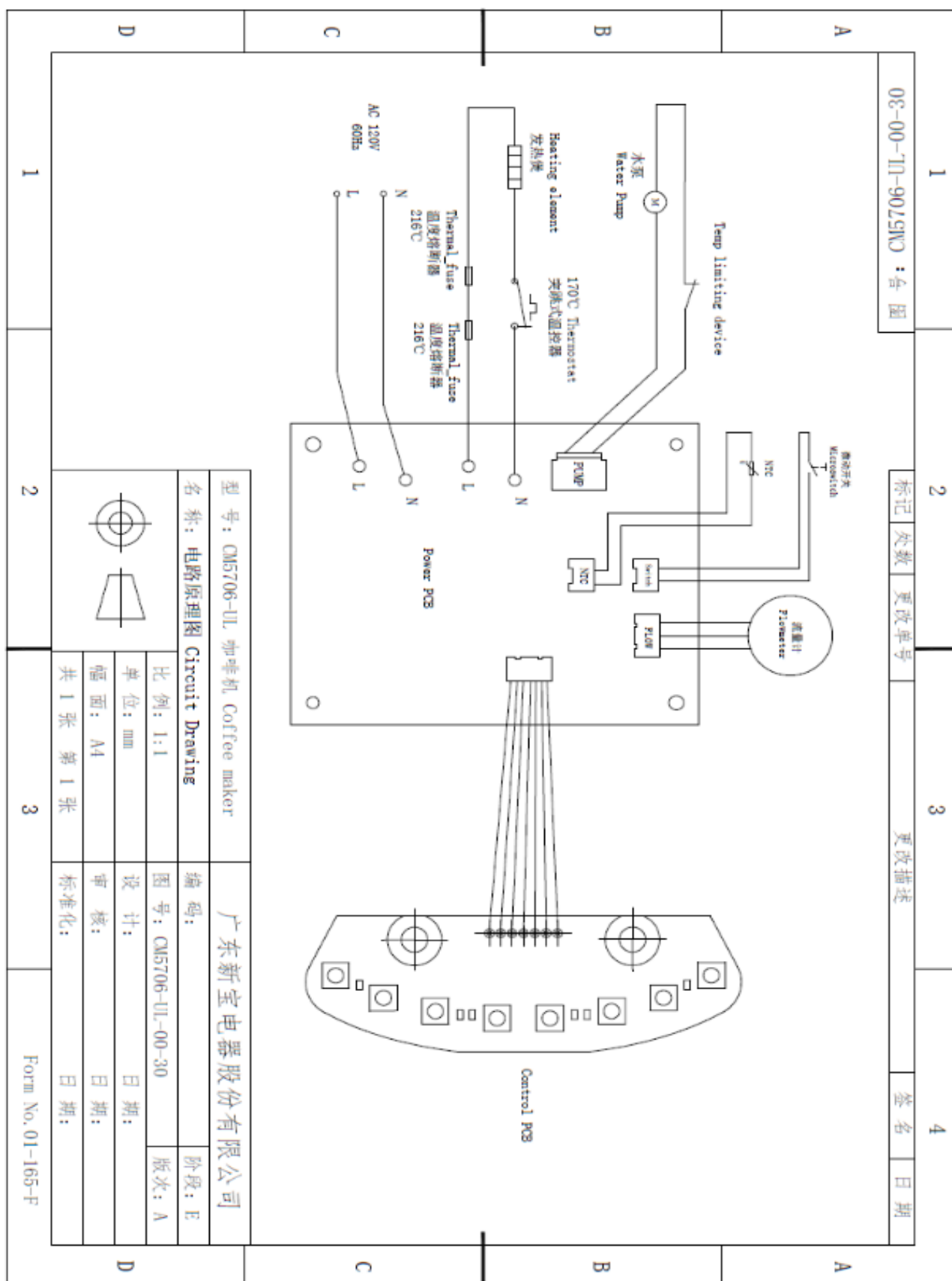
7.0 Illustrations

Illustration 3m - Circuit Diagram for CM5706A-UL, CM5706-UL without Pump Protector



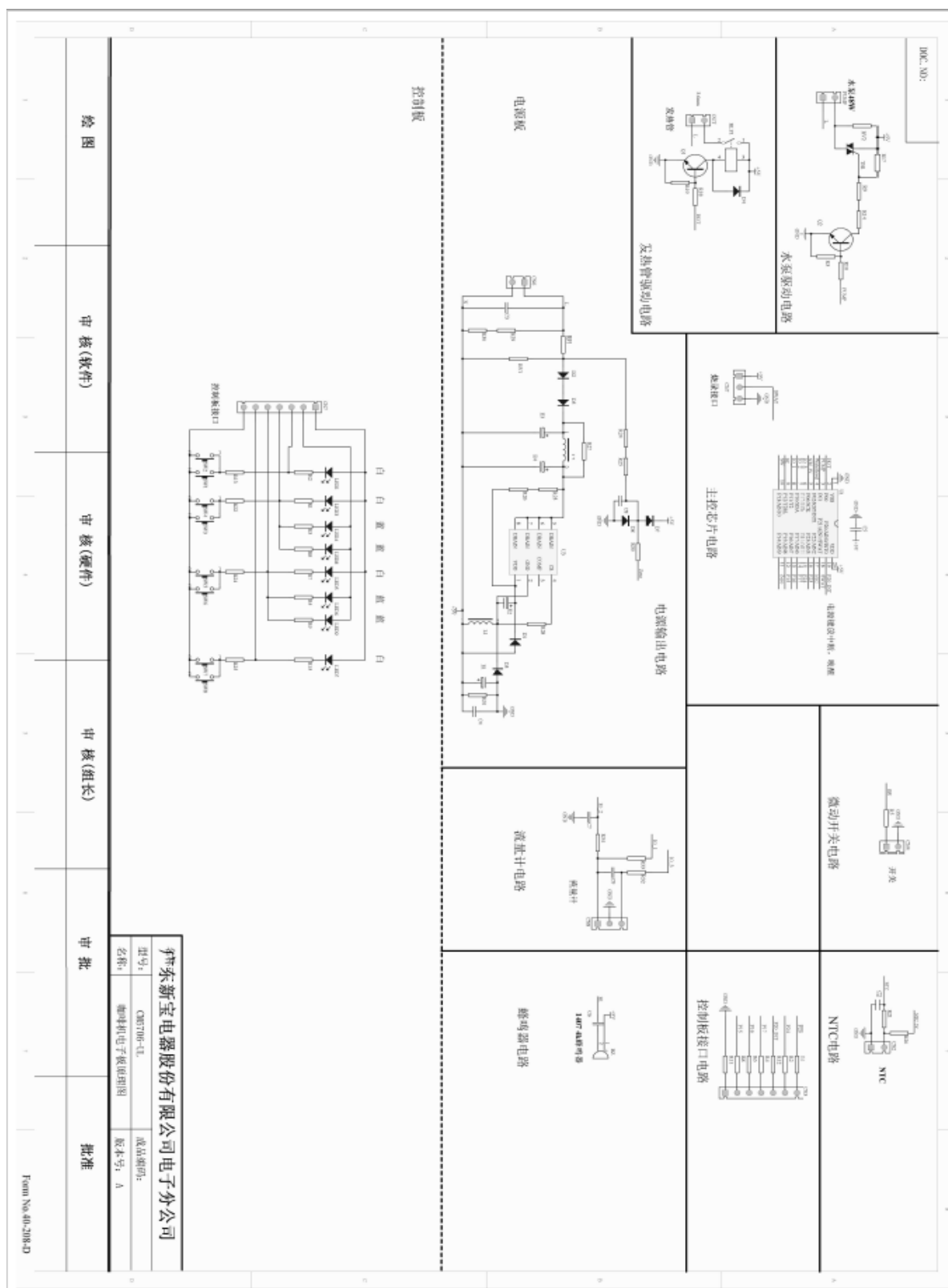
7.0 Illustrations

Illustration 3n - Circuit Diagram for CM5706A-UL, CM5706-UL with Pump Protector



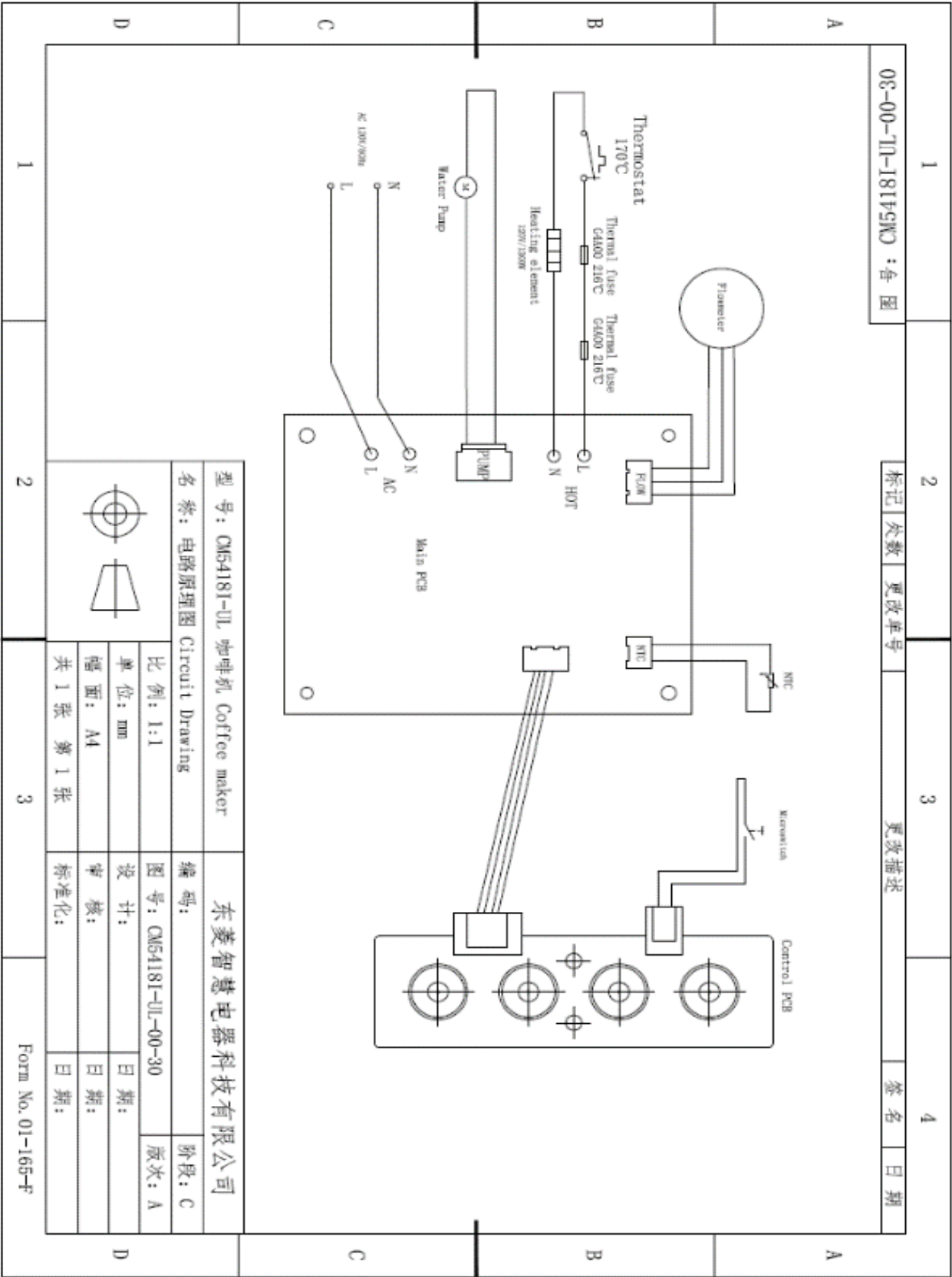
7.0 Illustrations

Illustration 3o - Circuit Diagram for CM5706A-UL, CM5706-UL



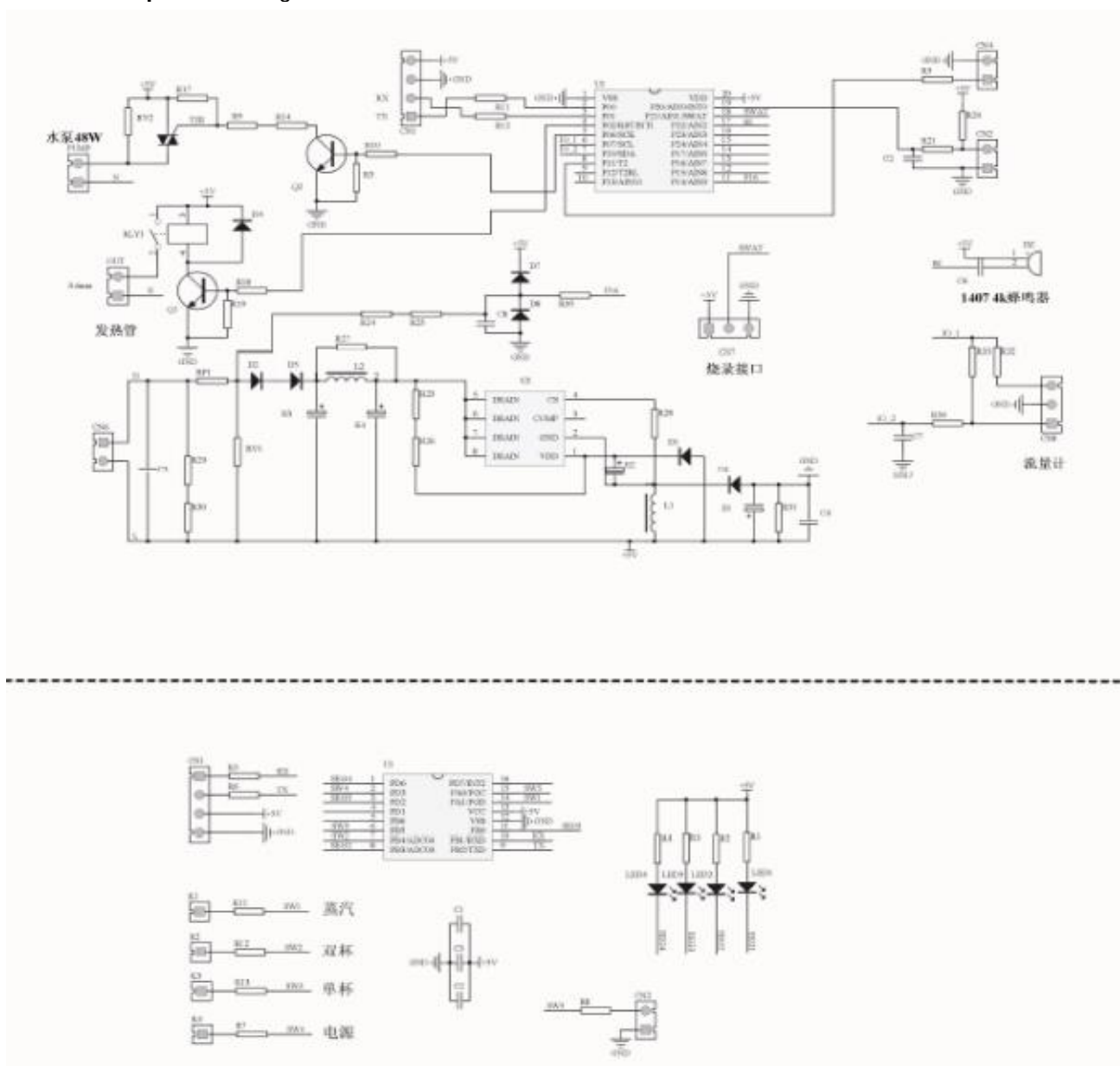
7.0 Illustrations

Illustration 3p - Circuit Diagram for CM5418I-UL



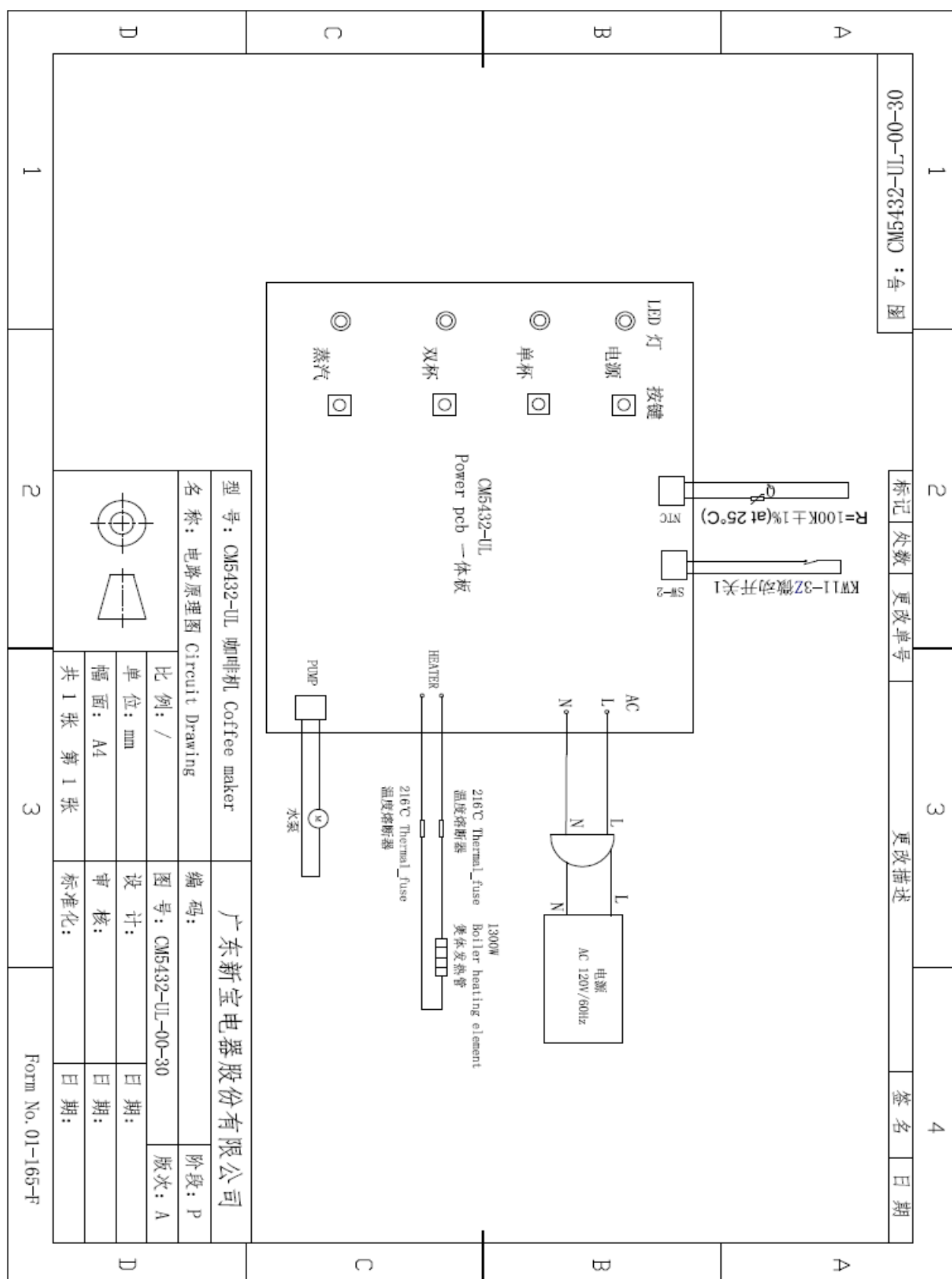
7.0 Illustrations

Illustration 3q - Circuit Diagram for CM5418I-UL



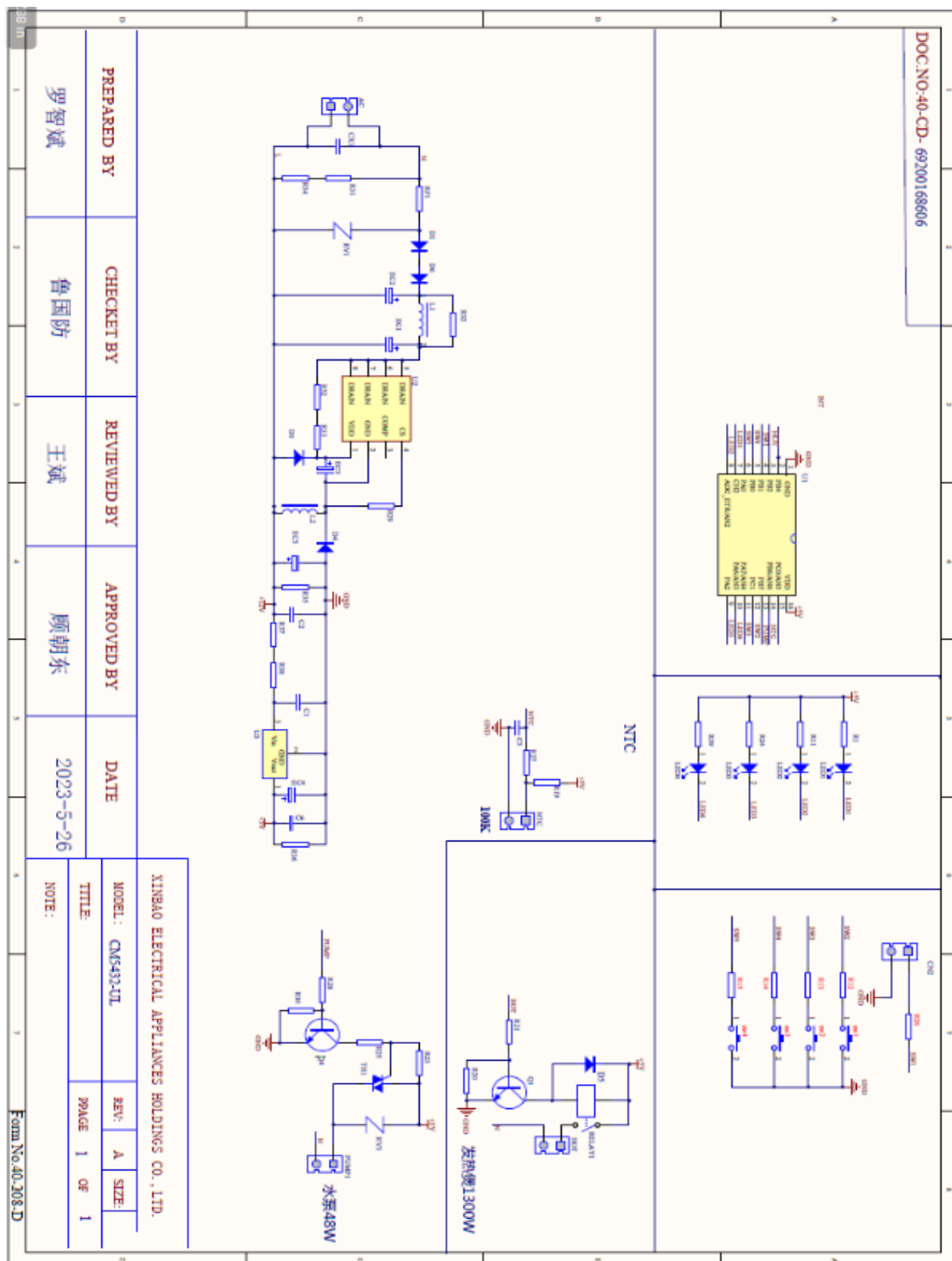
7.0 Illustrations

Illustration 3r - Circuit Diagram for CM5432-UL



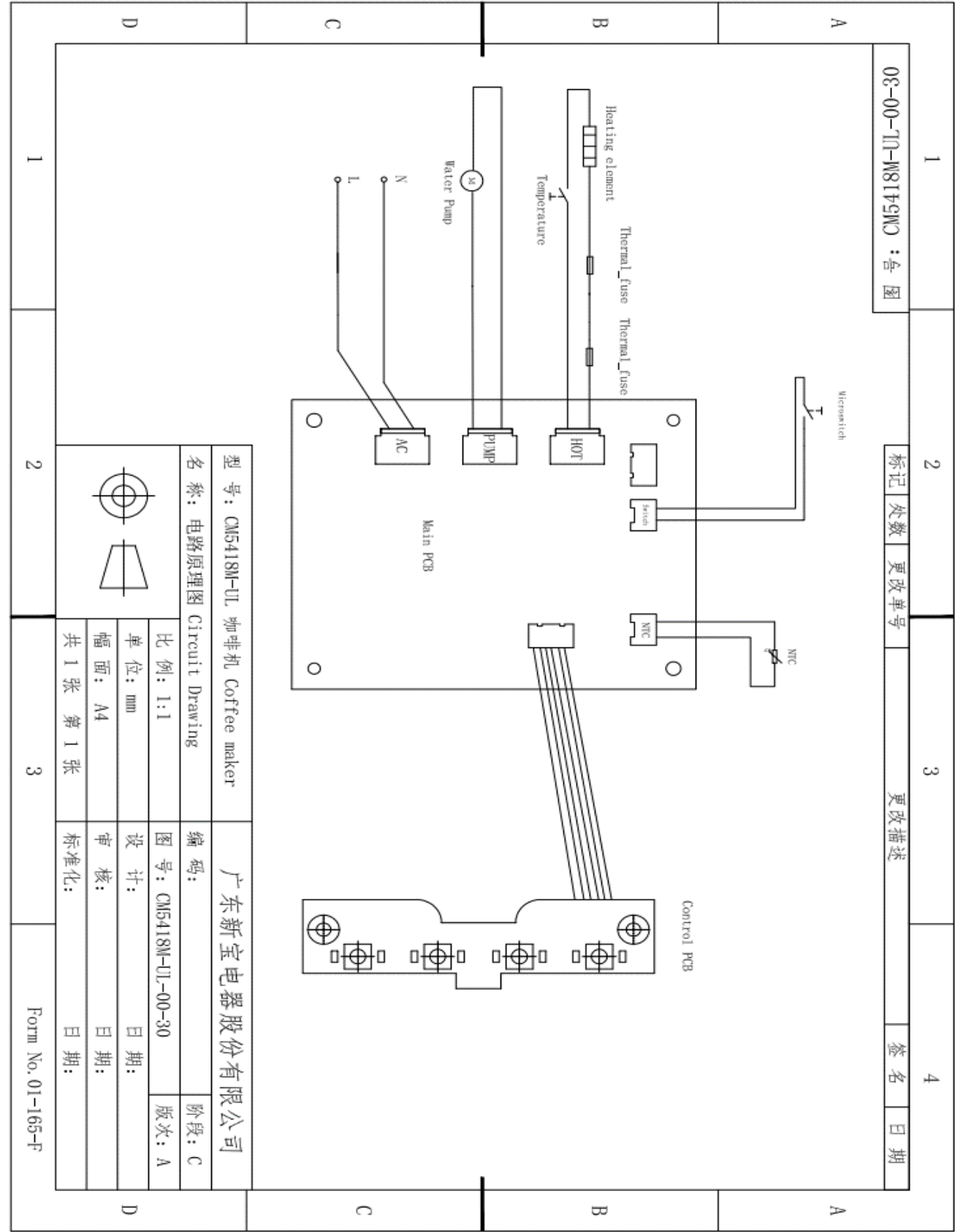
7.0 Illustrations

Illustration 3s - Circuit Diagram for CM5432-UL



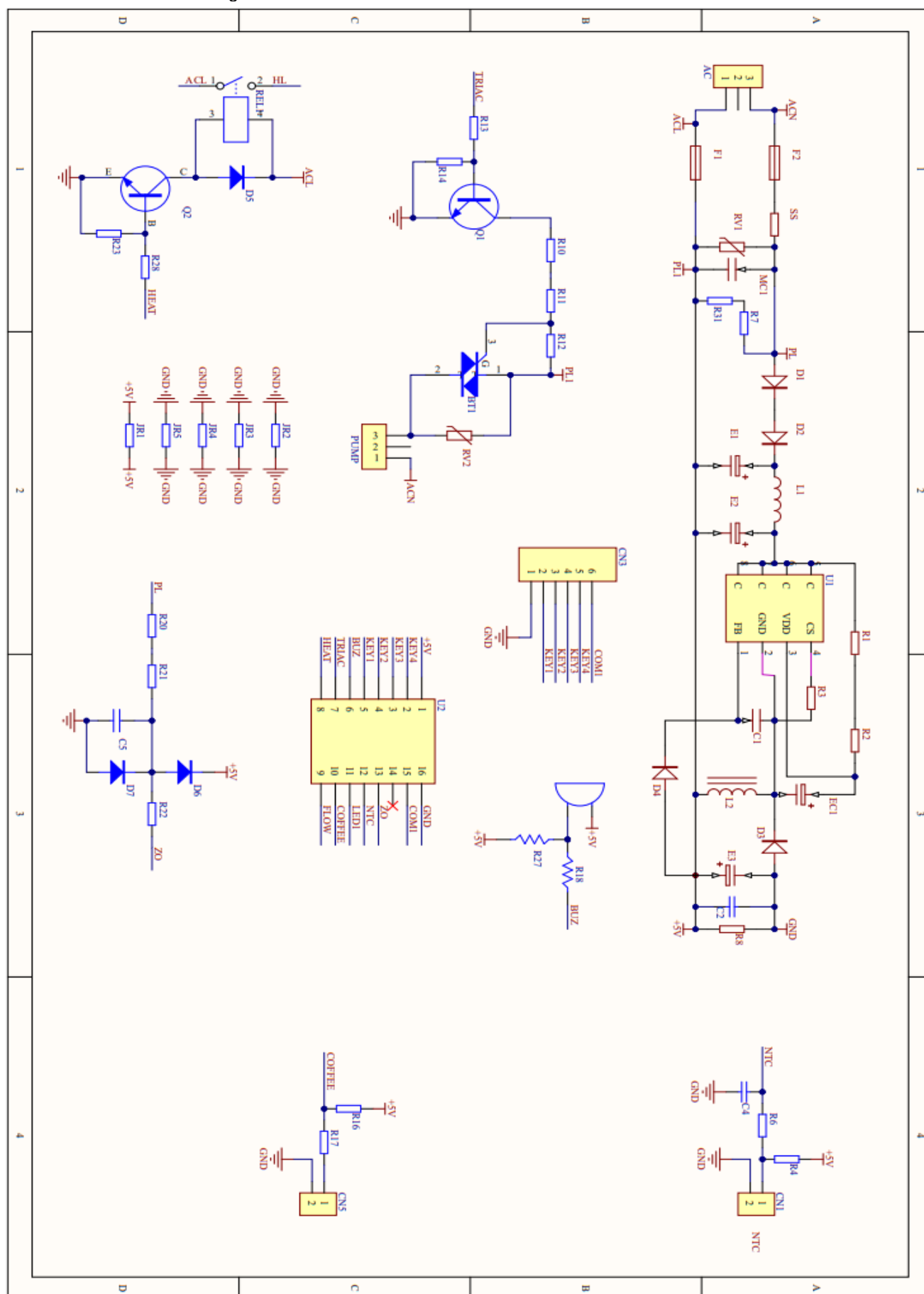
7.0 Illustrations

Illustration 3t - Circuit Diagram for CM5418M-UL



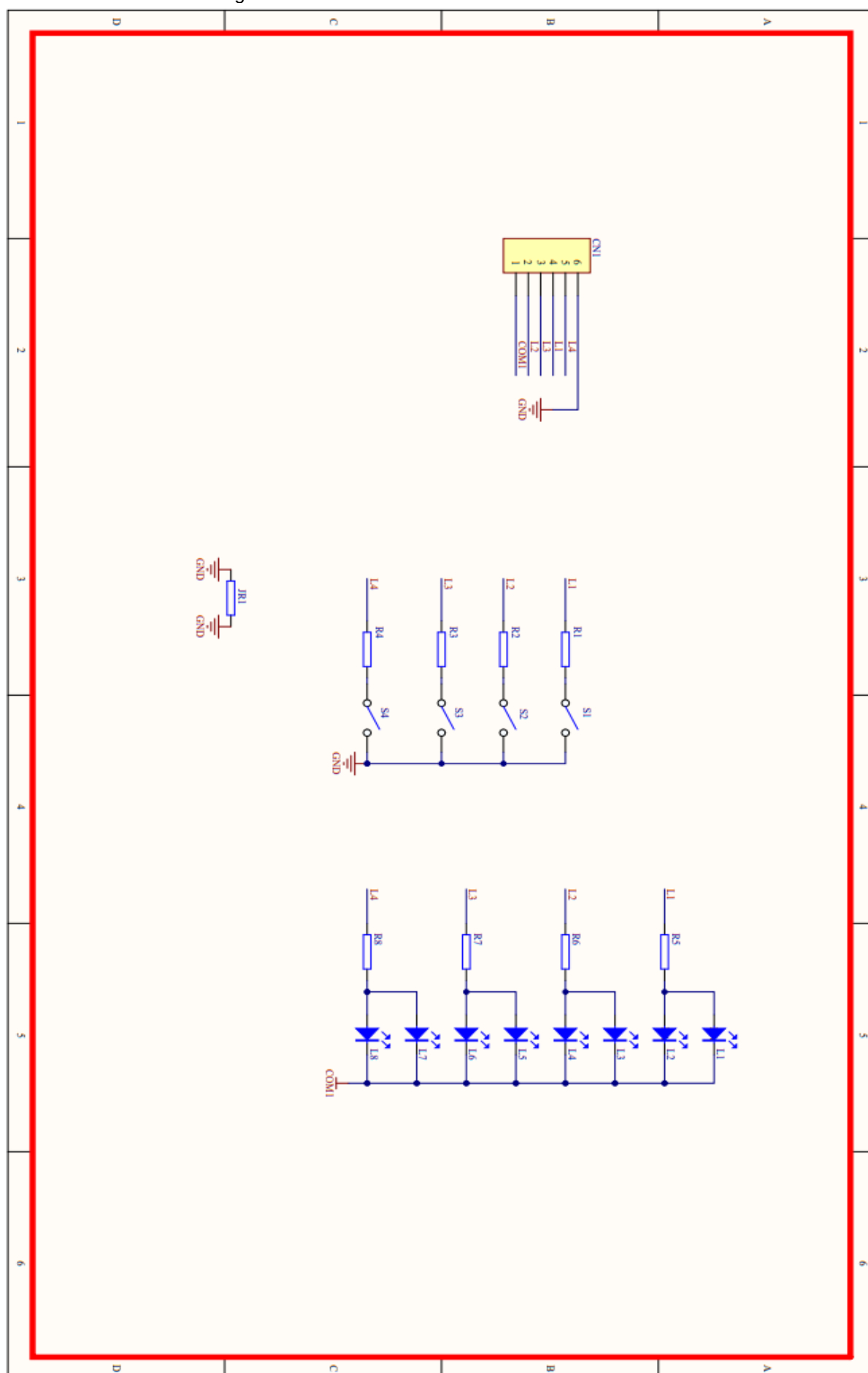
7.0 Illustrations

Illustration 3u - Circuit Diagram for CM5418M-UL



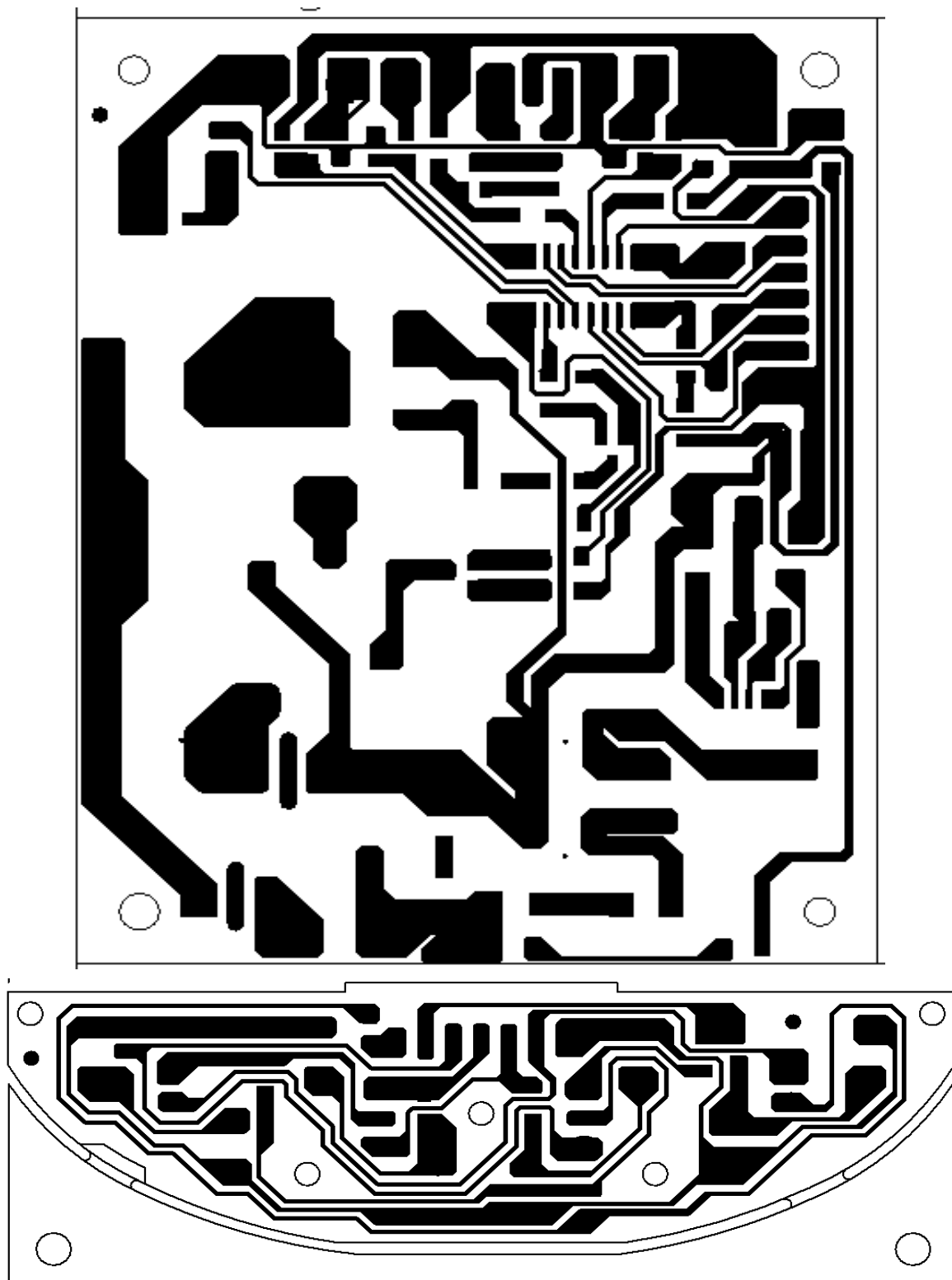
7.0 Illustrations

Illustration 3v - Circuit Diagram for CM5418M-UL



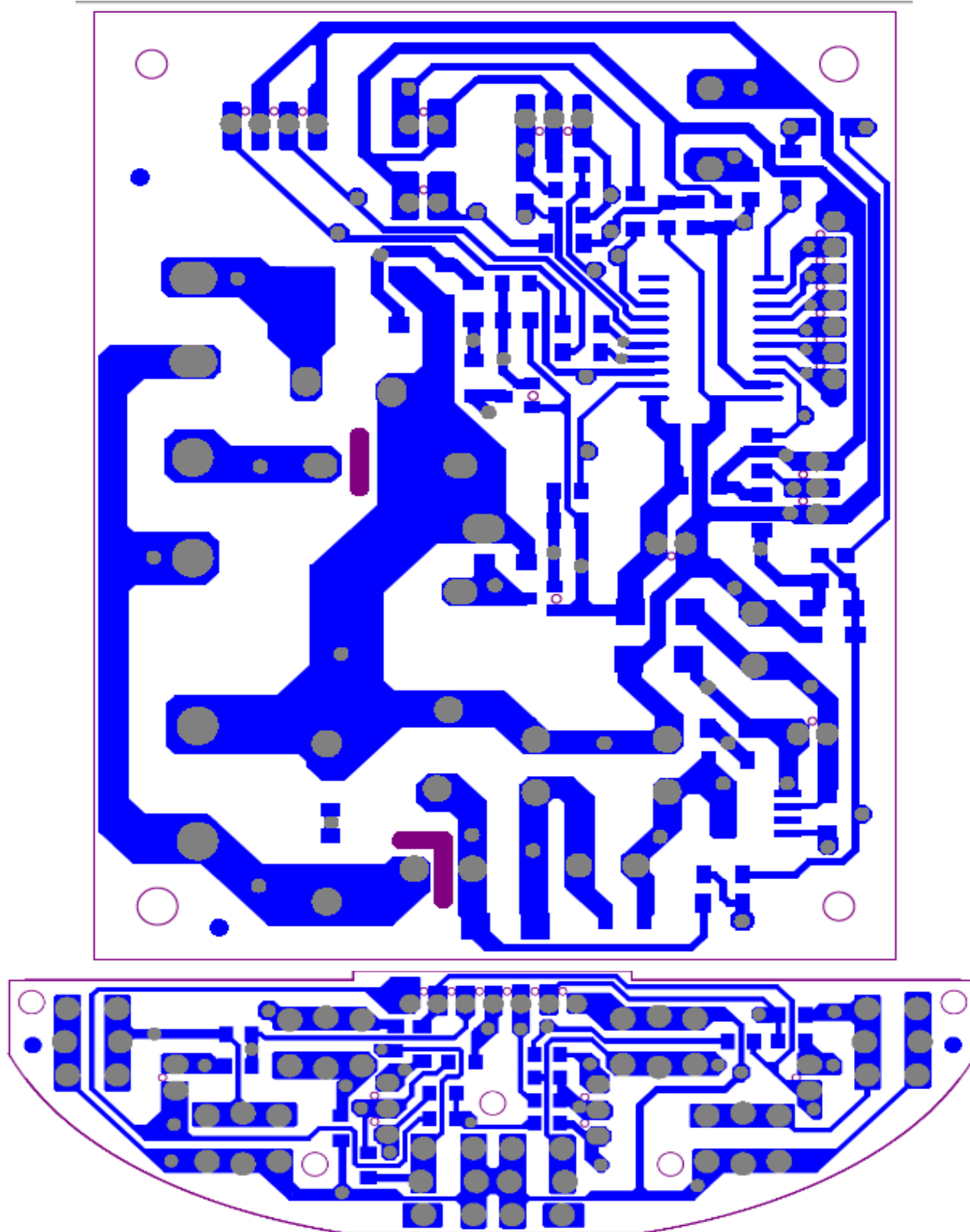
7.0 Illustrations

Illustration 4 - PCB Layout for Hongsheng PCB



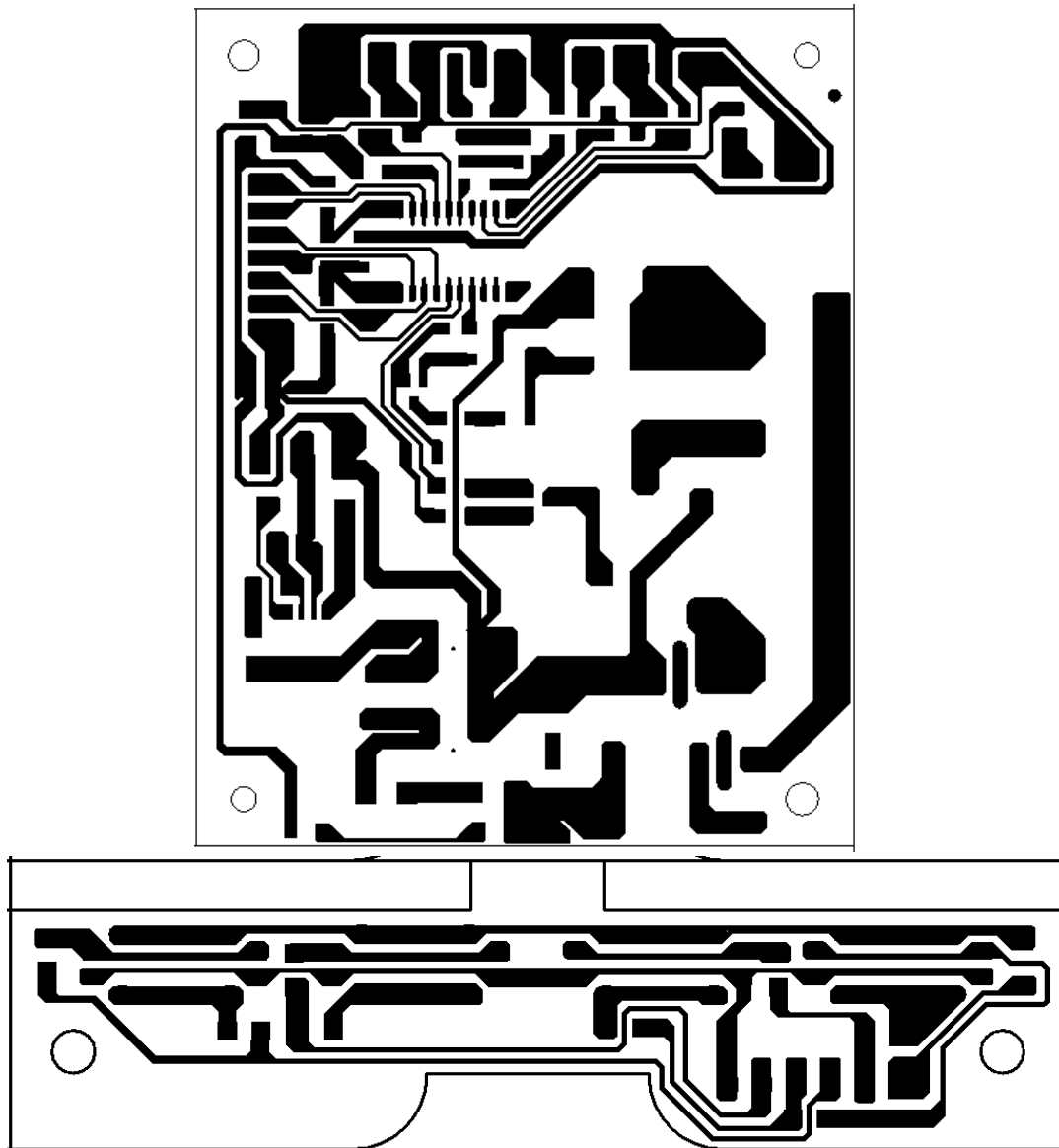
7.0 Illustrations

Illustration 4a - PCB Layout for Xinbao PCB



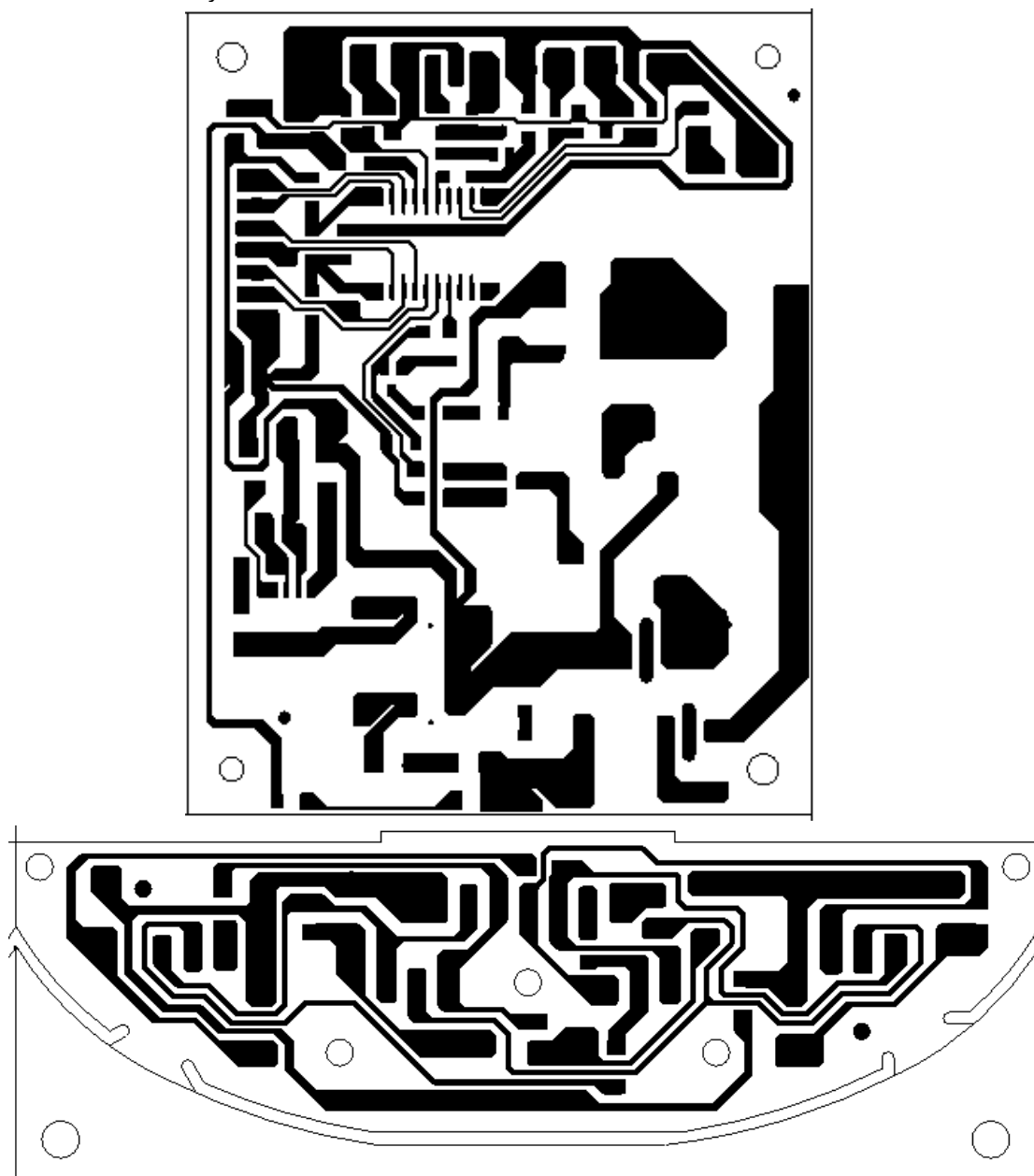
7.0 Illustrations

Illustration 4b - PCB Layout for CM5418BC-UL



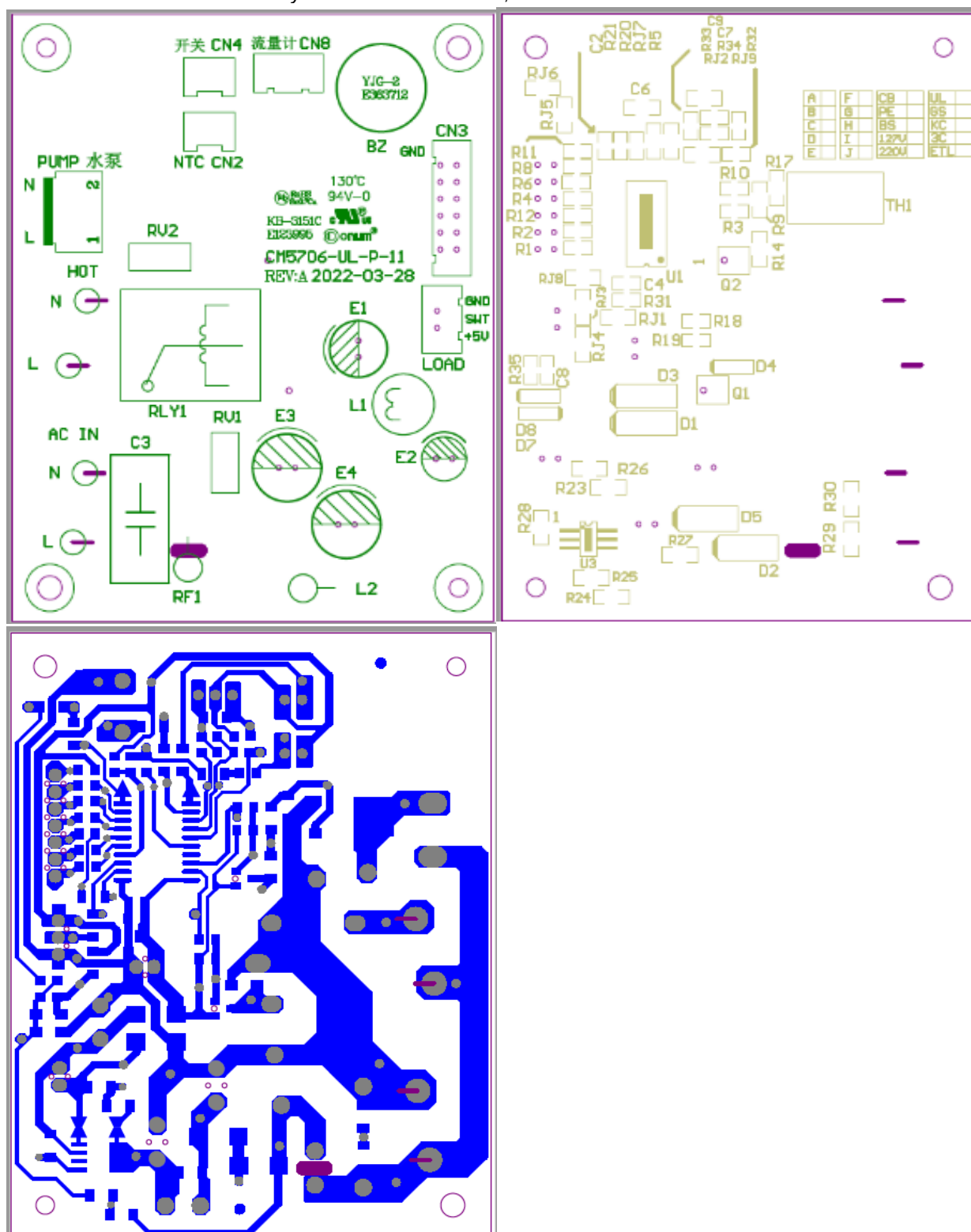
7.0 Illustrations

Illustration 4c - PCB Layouts for CM5418E-UL



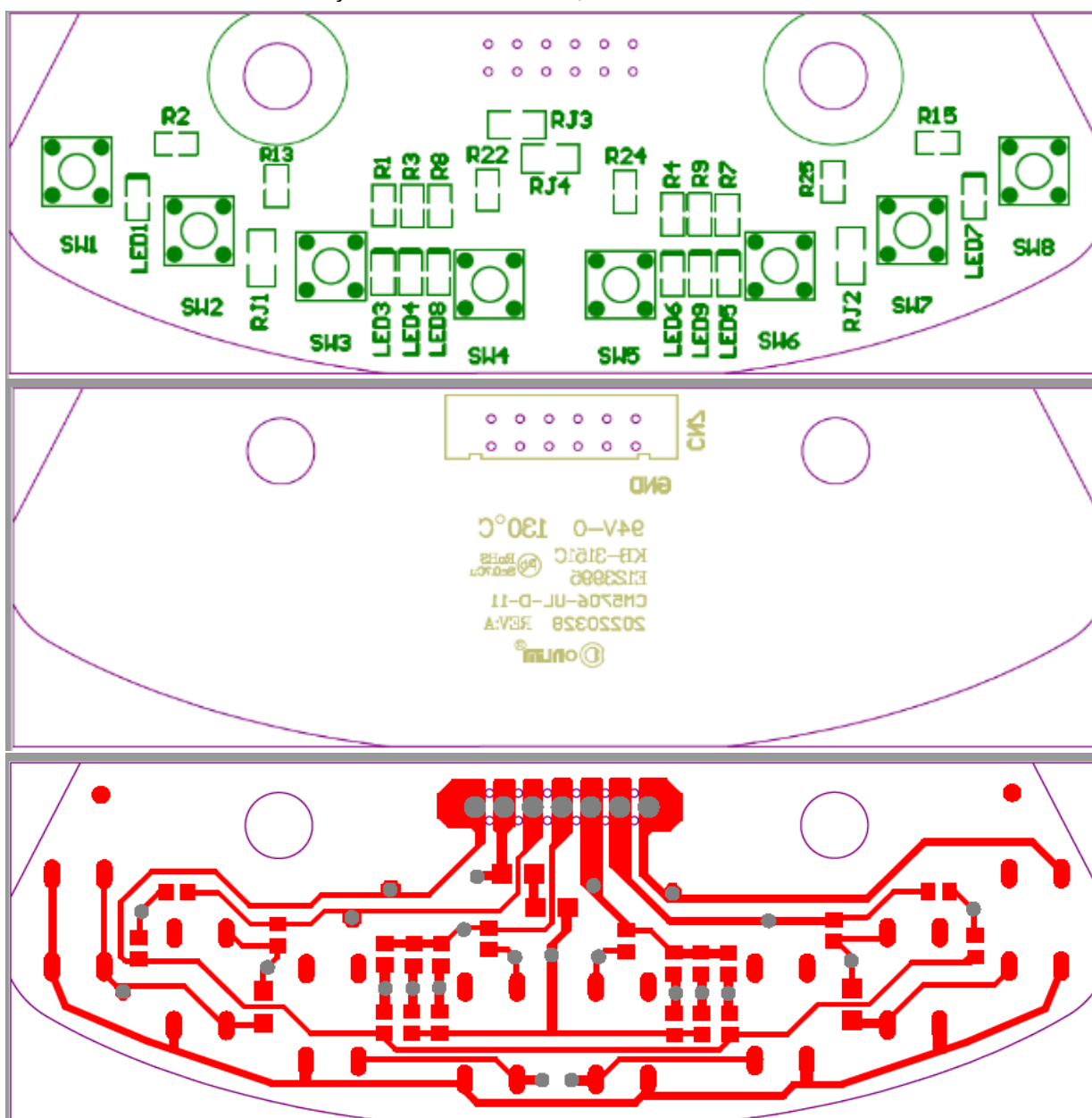
7.0 Illustrations

Illustration 4d - Power PCB Layouts for CM5706A-UL, CM5706-UL



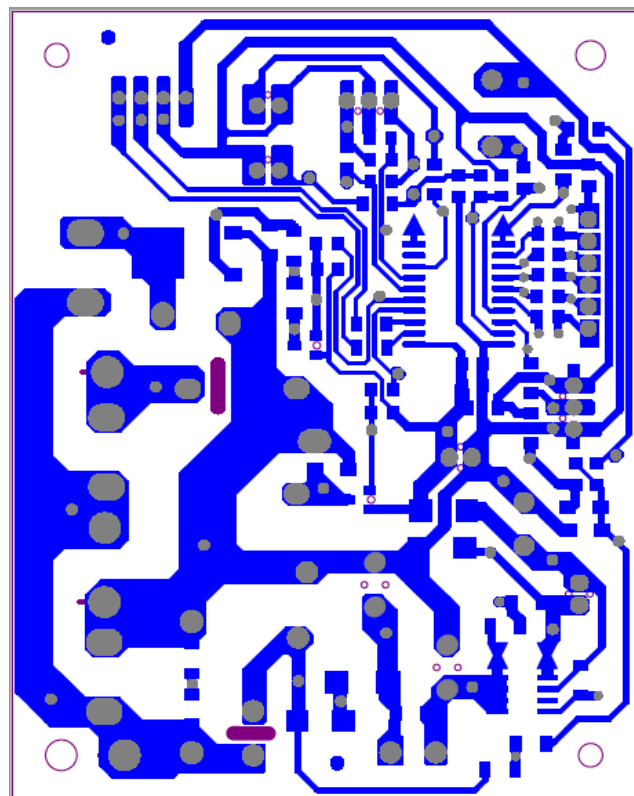
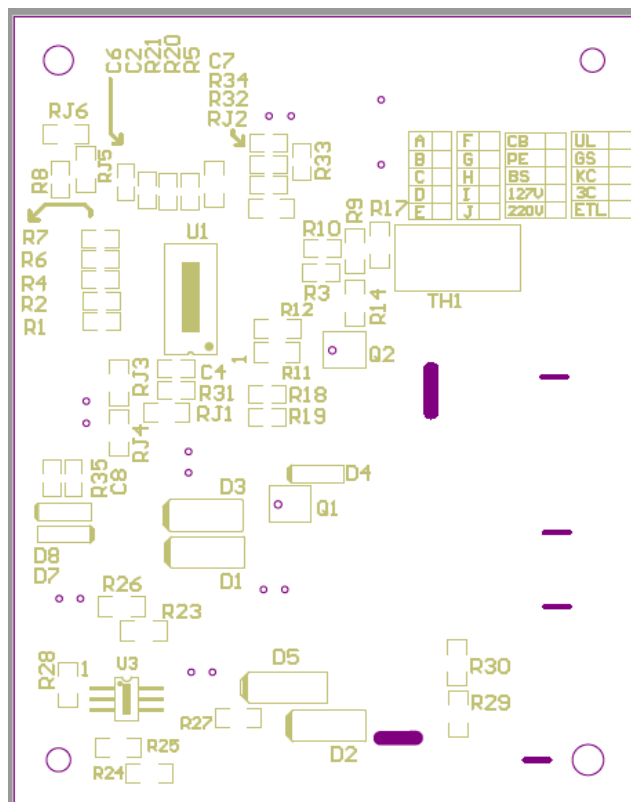
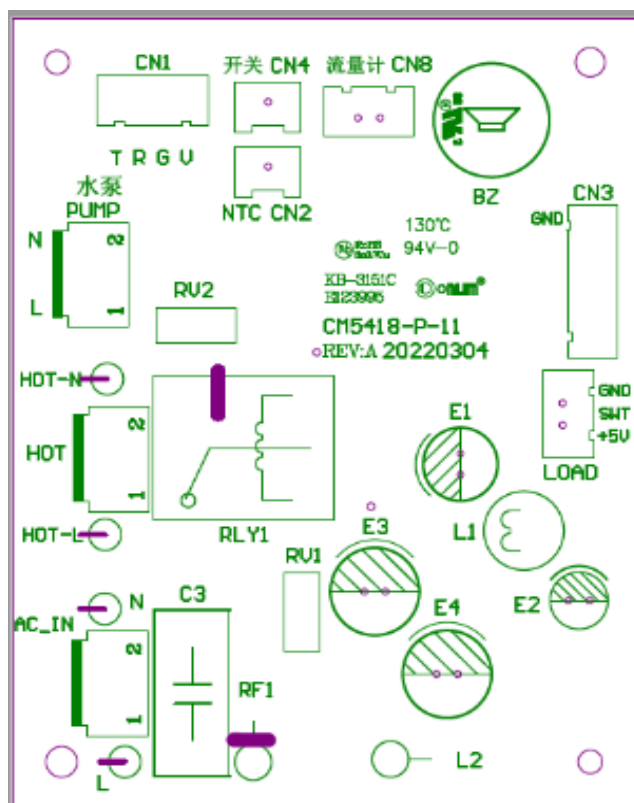
7.0 Illustrations

Illustration 4e - Control PCB Layouts for CM5706A-UL, CM5706-UL



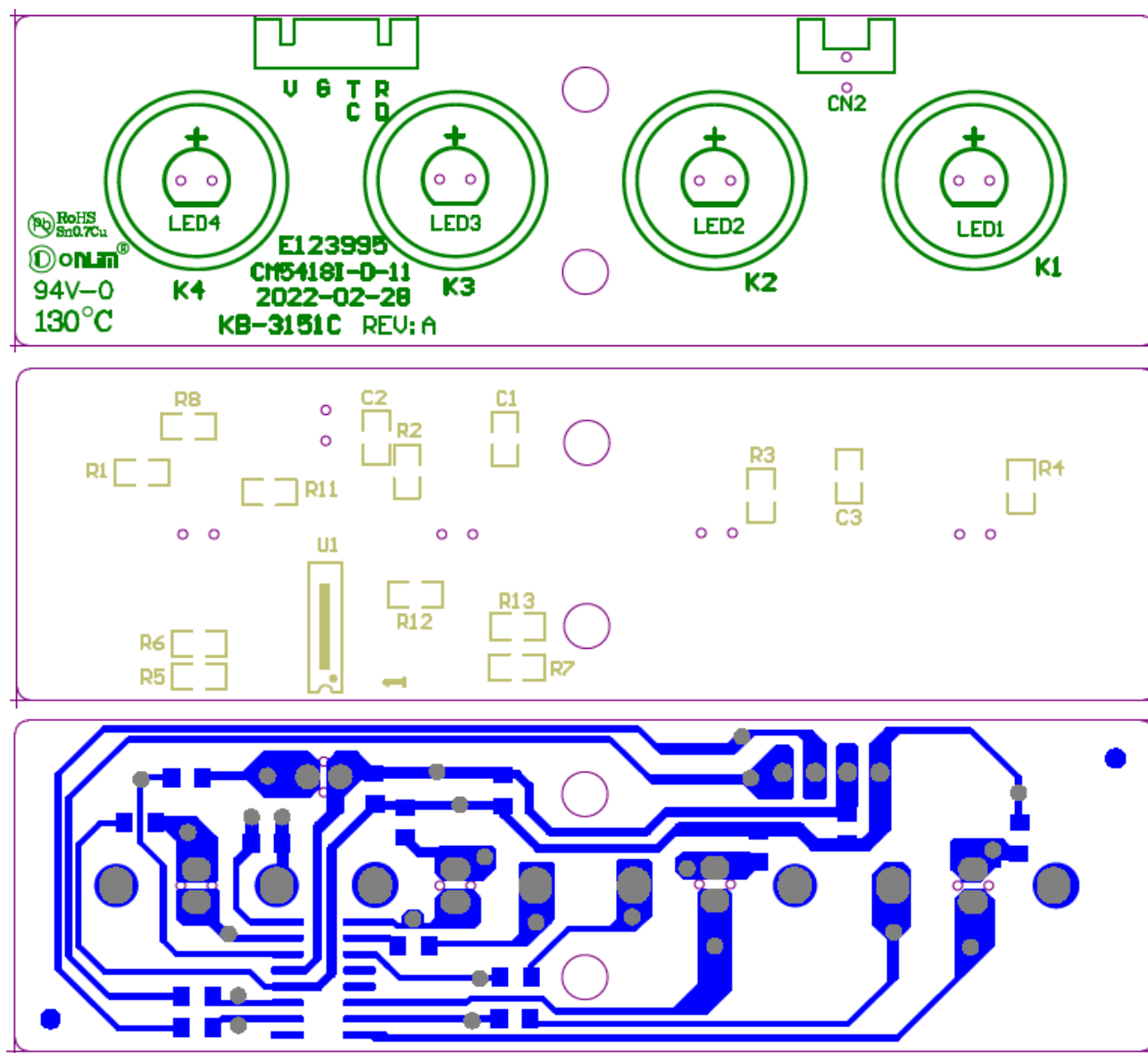
7.0 Illustrations

Illustration 4f - Power PCB Layouts for CM5418I-UL



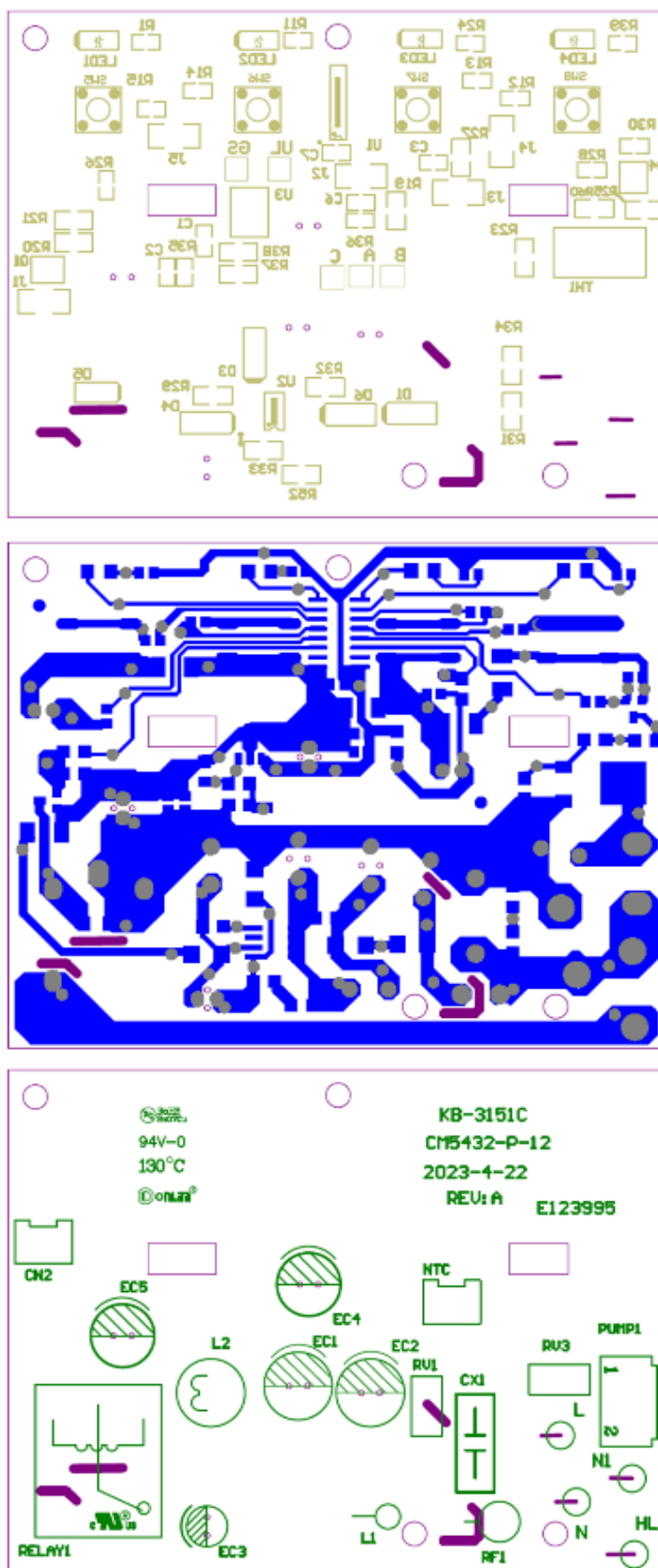
7.0 Illustrations

Illustration 4g - Control PCB Layouts for CM5418I-UL



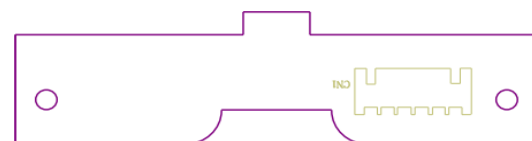
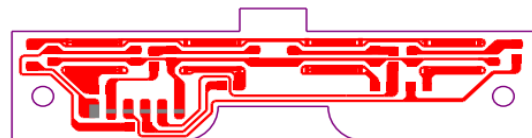
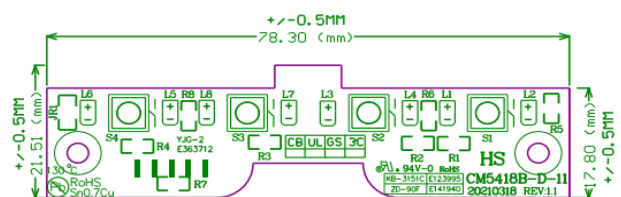
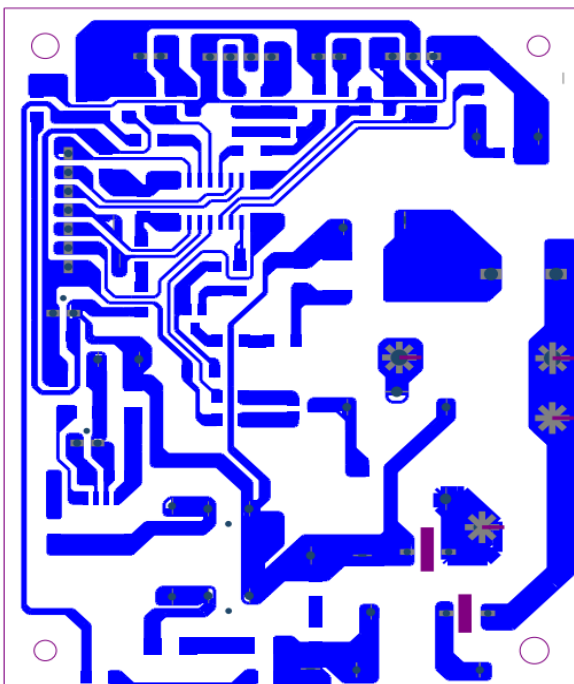
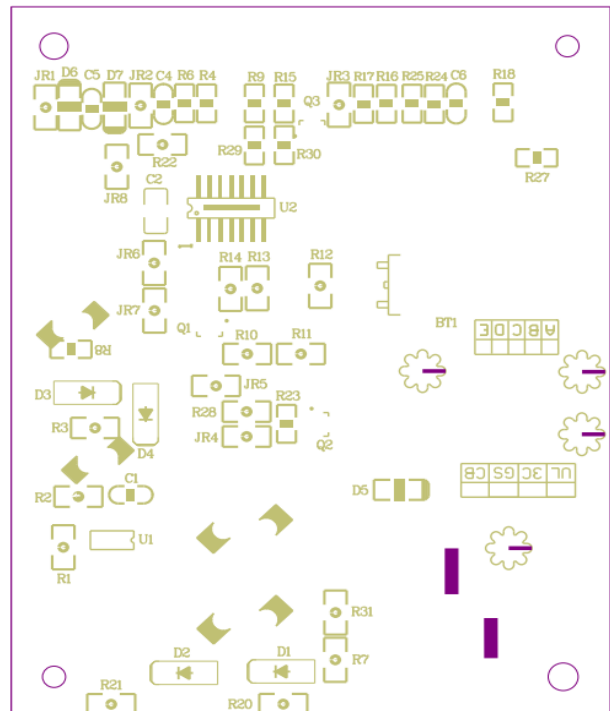
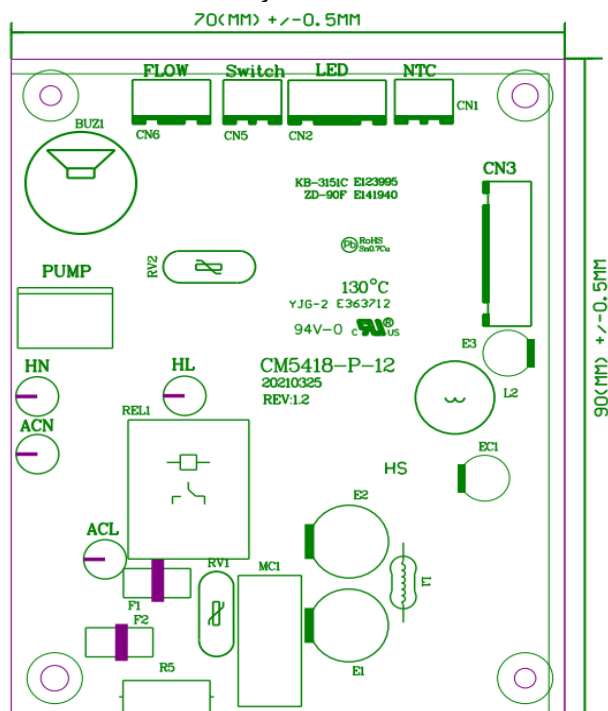
7.0 Illustrations

Illustration 4h - Combination PCB Layouts for CM5432-UL



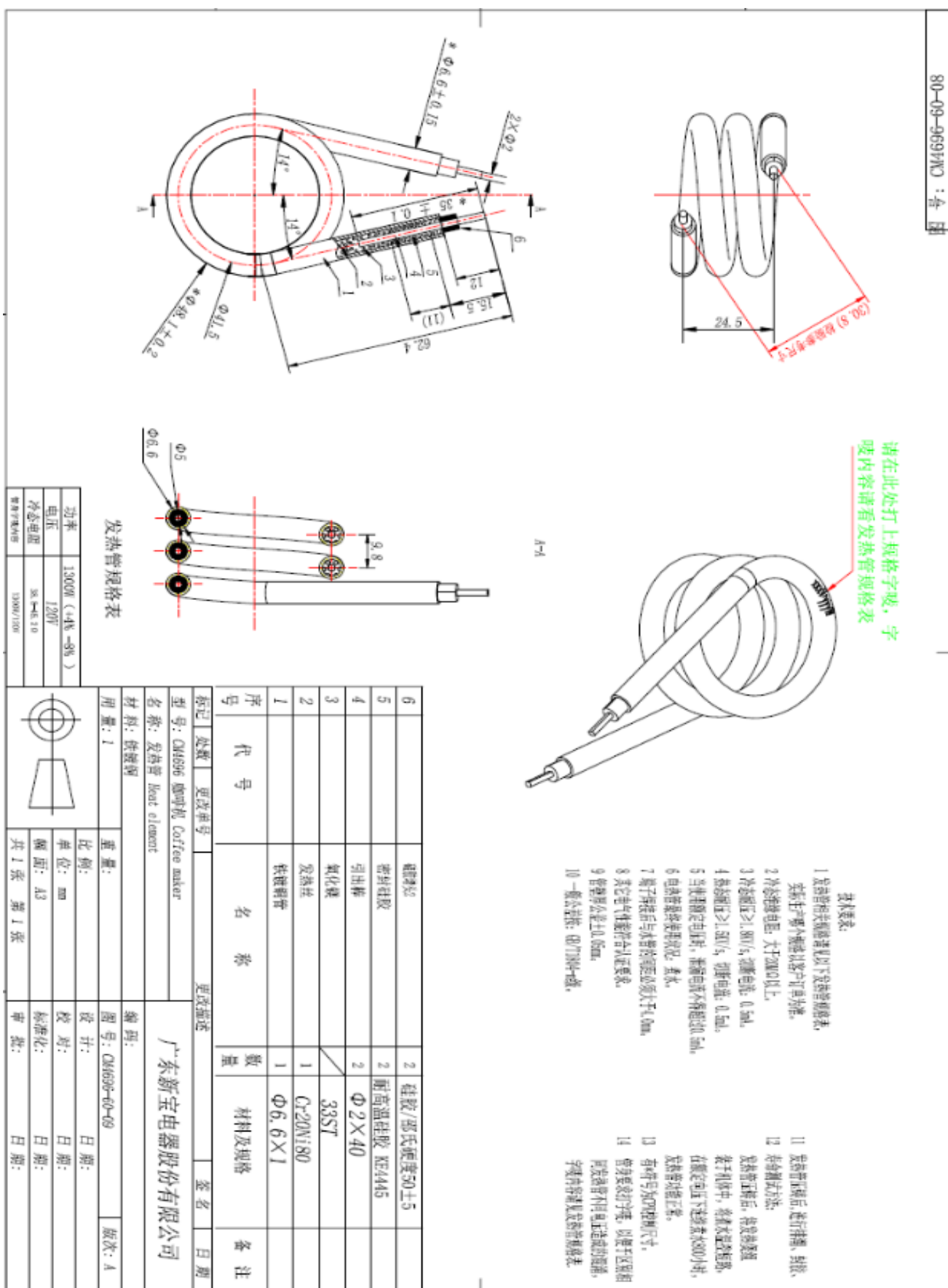
7.0 Illustrations

Illustration 4i - PCB Layouts for CM5418M-UL



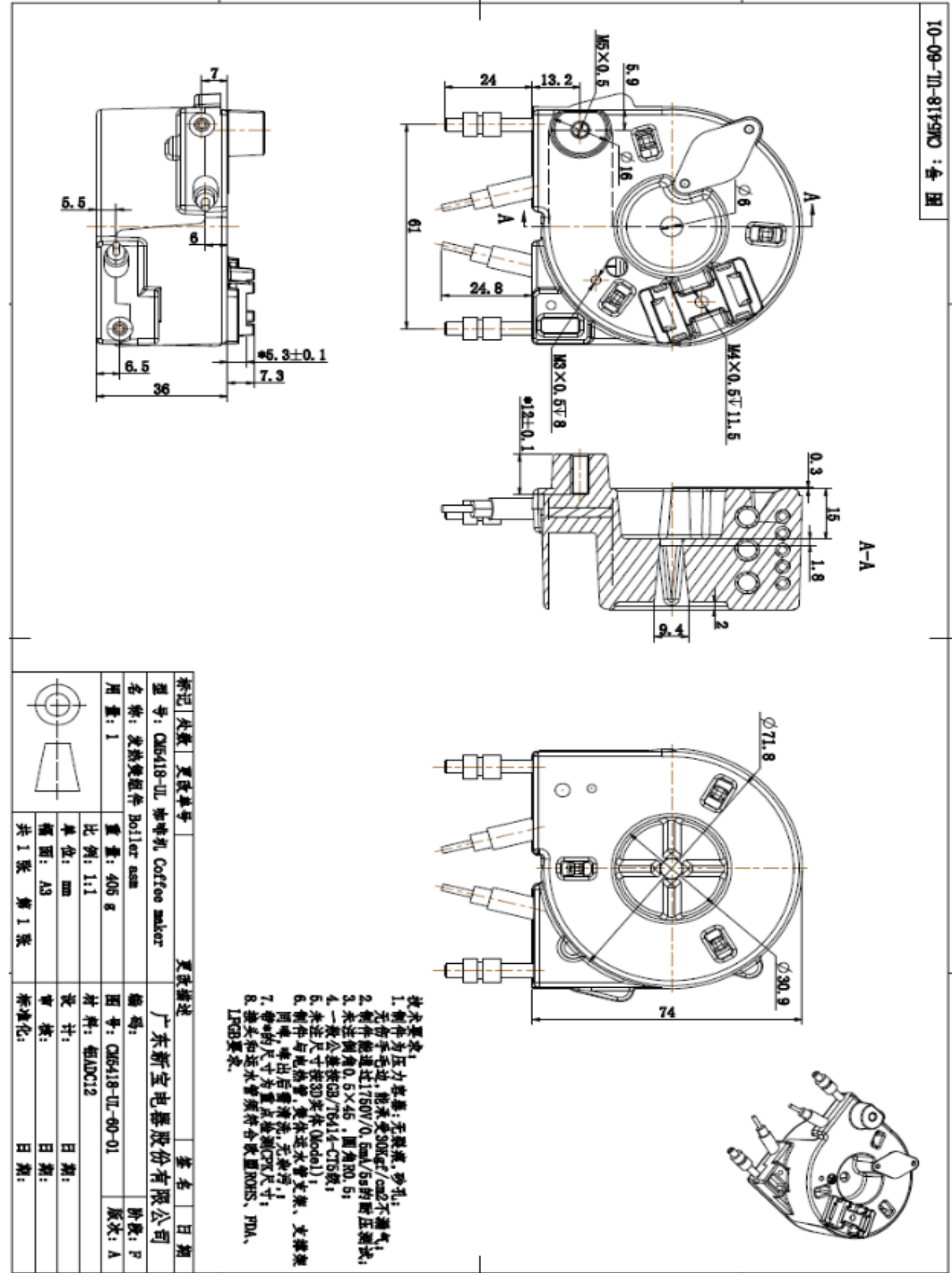
7.0 Illustrations

Illustration 5 - Drawing for Heat Element



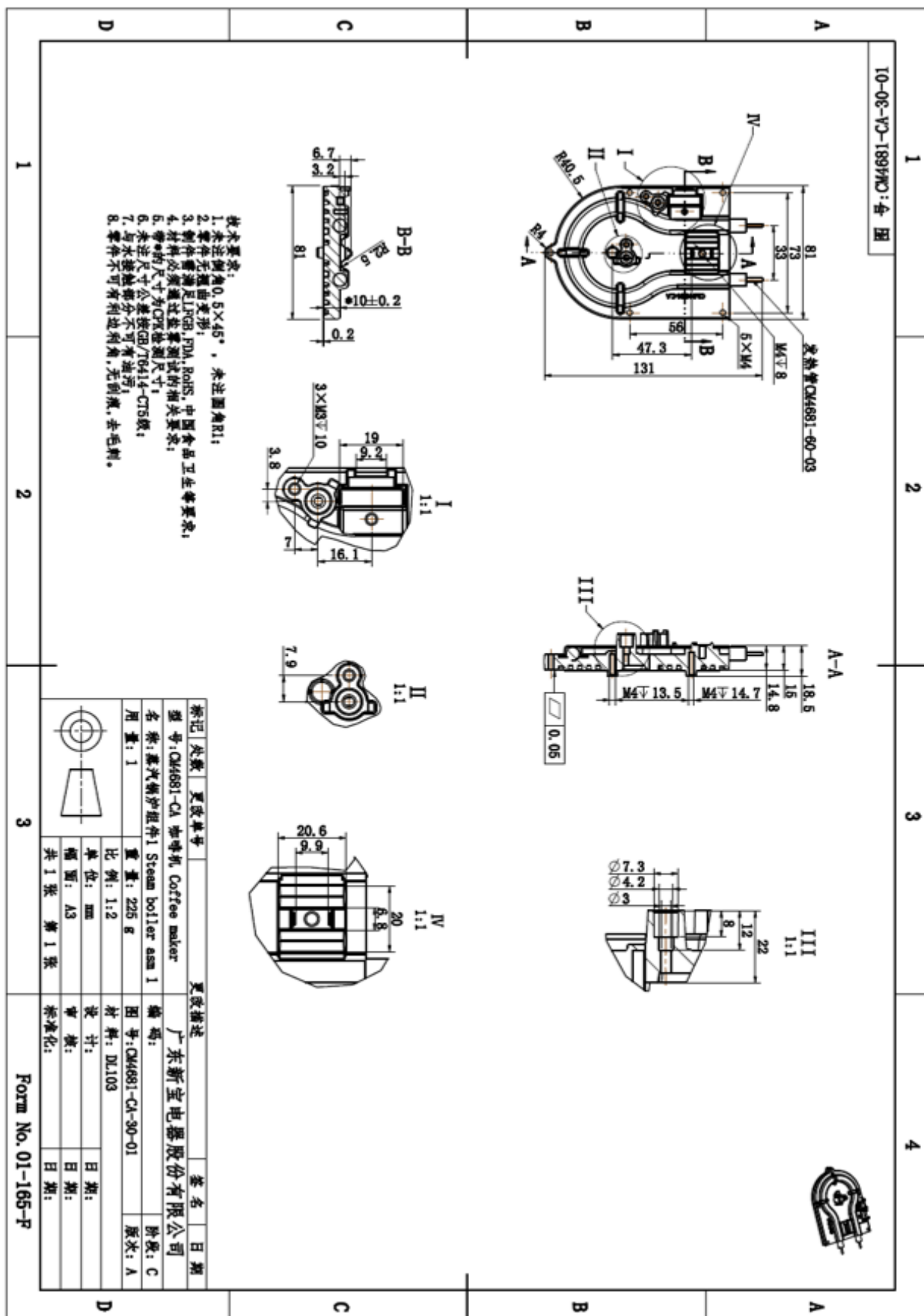
7.0 Illustrations

Illustration 6 - Drawing for Water Boiler



7.0 Illustrations

Illustration 7 - Drawing for Water Boiler 2



7.0 Illustrations

Illustration 8 - Drawing for Heat Element 2

50-09-V3-1894WD :台 图

1 2 3 4

技术要求:

1. 电气规格: 120V/1300W (-5%, +5%) ;
2. 耐压: 1250V/0.5mA/1min;
3. 绝缘电阻: 在电压为5000VDC的测试条件下, 其他绝缘电阻>50MΩ ;
4. 工作温度下的漏电流不得超过0.5mA, 发热管在充分散热条件下, 电压调整到使输入功率等于最大额定输入功率的1.15倍;
5. 过载测试: 输入功率为额定值的1.27倍, 发热管在充分散热条件下通电1h, 断电冷却0.5h至室温(允许强制冷却), 累计工作时间>3000h;
6. 寿命: 发热管按上额定电压, 在充分散热条件下通电1h, 断电冷却0.5h至室温(允许强制冷却), 累计工作时间>3000h;
7. 管身表面颜色均匀, 无划伤, 起泡、剥层或局部堆积, 引出线两端应密封。
8. 冷端长度按图所示, 发热管除冷端外, 发热应均匀;
9. 发热管使用状态: 传导;
10. 其他要求符合JB/T4088《日用管状电热元件》的标准;
11. 所有材料须符合欧盟ROHS要求;
12. 一般尺寸公差按GB/T1804—级;
13. 有公差要求的尺寸均为必须检测的尺寸, 带*的为CAXA检测尺寸。

Top view dimensions: 56.6, *33±0.3, Ø8, Ø2.

Side view dimensions: 14, 35, 70.2, 117.3, R15, R25.

技术规格:

序号	代号	名称	数量	材料及规格	备注
4		引出线	1	10#铜 Ø0.0	
3		绝缘	1	绝缘材料	
2		发热丝	1	0.6/25A15/耐热丝	
1		管壳	1	Ø6.0/1-0.6/SS304	

设计:

图号: CM4681-GA-60-05 版次: A

设计: 日期:

校核: 日期:

标准: 日期:

审核: 日期:

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

名称: 蒸汽加热器 Steam heater element

型号: CM4681-GA 咖啡机Coffee Machine

比例:

单位: mm

幅面: A3

共 1 张 第 1 张

图号: CM4681-GA-60-05

版次: A

材料规格:

材料: 铜线

规格: 10#铜 Ø0.0

8.0 Test Summary					
Evaluation Period	1-Feb-2021 ~ 25-Jun-2021			Project No.	210201172GZU
Sample Rec. Date	1-Feb-2021	Condition	Prototype	Sample ID.	1#~120# L1~L21, S1~S9
Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)				
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1				
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 1082:2009 Ed.6+R:28Sep2017 clause	UL 746C:2018 Ed.7 clause	CSA C22.2#60335-1:2016 Ed.2 and (R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1 clause	
Power Input		30	--	--	
Leakage Current Test		31	--	--	
Operational Tests		32	--	--	
Normal Temperature Tests		33	--	--	
Leakage Current as a Result of Moisture Tests		34	--	--	
Dielectric Voltage-Withstand Test		35	--	--	
Strain Relief Test		37	--	--	
Push-Back Relief Test		38	--	--	
Metal Enclosure Impact tests		39	--	--	
Stability Test		44	--	--	
Dynamic Stability Test		46	--	--	
Pressure Vessels and Parts Subject to Pressure		46A	--	--	
Abnormal Operation Tests		47	--	--	
Secondary Circuit Component Failure Test		48	--	--	
Automatic Controls Test		49	--	--	
Strain-Relief Test after Mold Stress-Relief Distortion		--	31	--	
Resistance To Impact Test		--	56	--	
Mold Stress-Relief Distortion Test		--	61	--	
Marking Test		--	--	7.14	
Protection Against Access to Live Parts		--	--	8.1	
Power Input and Current		--	--	10	
Heating		--	--	11	
Leakage Current and Electric Strength at Operating Temperature		--	--	13	
Moisture Resistance		--	--	15	
Leakage Current and Electric Strength		--	--	16	
Abnormal Operation Test		--	--	19	
Stability and Mechanical Hazards		--	--	20	
Mechanical Strength		--	--	21	
Construction		--	--	22	
Internal Wiring		--	--	23	
Supply connection and external flexible cords		--	--	25	
Creepage Distance and Clearance		--	--	29	
Resistance to heat and fire		--	--	30	
Evaluation Period	30-Jun-2021 ~ 19-Aug-2021			Project No.	210630122GZU
Sample Rec. Date	30-Jun-2021	Condition	Prototype	Sample ID.	1#~18#
Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)				
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1				

8.0 Test Summary

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 1082:2009 Ed.6+R:28Sep20 17 clause	UL 746C:2018 Ed.7 clause	CSA C22.2#60335- 1:2016 Ed.2 and (R2019) [CSA C22.2#60335-2- 15:2014 Ed.1+A1;U1 clause
Power Input	30	-	-
Leakage Current Test	31	-	-
Operational Tests	32	-	-
Normal Temperature Tests	33	-	-
Dielectric Voltage-Withstand Test	35	-	-
Metal Enclosure Impact tests	39	-	-
Stability Test	44	-	-
Pressure Vessels and Parts Subject to Pressure	46A	-	-
Abnormal Operation Tests	47	-	-
Secondary Circuit Component Failure Test	48	-	-
Automatic Controls Test	49	-	-
Resistance To Impact Test	-	56	-
Mold Stress-Relief Distortion Test	-	61	-
Power Input and Current	-	-	10
Heating	-	-	11
Leakage Current and Electric Strength at Operating Temperature	-	-	13
Moisture Resistance	-	-	15
Abnormal Operation Test	-	-	19
Stability and Mechanical Hazards	-	-	20
Mechanical Strength	-	-	21
Construction	-	-	22
Internal Wiring	-	-	23
Creepage Distance and Clearance	-	-	29
Resistance to heat and fire	-	-	30

Evaluation Period	28-Jul-2021 ~ 8-Oct-2021		Project No.	210728169GZU
Sample Rec. Date	28-Jul-2021	Condition	Prototype	Sample ID.

Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)
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Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1
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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 1082:2009 Ed.6+R:28Sep20 17 clause	UL 746C:2018 Ed.7 clause	CSA C22.2#60335- 1:2016 Ed.2 and (R2019) [CSA C22.2#60335-2- 15:2014 Ed.1+A1;U1 clause
Power Input	30	-	-
Leakage Current Test	31	-	-
Operational Tests	32	-	-
Normal Temperature Tests	33	-	-
Dielectric Voltage-Withstand Test	35	-	-
Metal Enclosure Impact tests	39	-	-

8.0 Test Summary					
Pressure Vessels and Parts Subject to Pressure		46A	-	-	
Abnormal Operation Tests		47	-	-	
Automatic Controls Test		49	-	-	
Resistance To Impact Test		-	56	-	
Mold Stress-Relief Distortion Test		-	61	-	
Power Input and Current		-	-	10	
Heating		-	-	11	
Leakage Current and Electric Strength at Operating Temperature		-	-	13	
Moisture Resistance		-	-	15	
Mechanical Strength		-	-	21	
Construction		-	-	22	
Evaluation Period	12-Nov-2021 ~ 31-Dec-2021		Project No.	211112107GZU	
Sample Rec. Date	12-Nov-2021	Condition	Prototype	Sample ID.	1#~15#
Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)				
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1				
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 1082:2009 Ed.6+R:28Sep2017 Clause	UL 746C:2018 Ed.7 Clause	CSA C22.2#60335-1:2016 Ed.2 and (R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1 Clause	
Normal Temperature Tests		33	-	-	
Abnormal Operation Tests		47	-	-	
Resistance To Impact Test		-	56	-	
Mold Stress-Relief Distortion Test		-	61	-	
Heating		-	-	11	
Abnormal Operation Test		-	-	19	
Mechanical Strength		-	-	21	
Resistance to heat and fire		-	-	30	
Evaluation Period	24-Dec-2021 ~ 11-Jan-2022		Project No.	211224181GZU	
Sample Rec. Date	24-Dec-2021	Condition	Prototype	Sample ID.	1#~3#
Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)				
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1				
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 1082:2009 Ed.6+R:28Sep2017 Clause	CSA C22.2#60335-1:2016 Ed.2 and (R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1 Clause	-	
Dielectric Voltage-Withstand Test		35	-	-	
Metal Enclosure Impact tests		39	-	-	
Leakage Current and Electric Strength at Operating Temperature		-	13	-	

8.0 Test Summary					
Mechanical Strength		-	21	-	
Evaluation Period	13-May-2022 ~ 1-Aug-2022		Project No.	220513120GZU	
Sample Rec. Date	13-May-2022	Condition	Prototype	Sample ID.	1#~56#
Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)				
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1				
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 1082:2009 Ed.6+R:28Sep2017 Clause	CSA C22.2#60335-1:2016 Ed.2 and (R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1 Clause	UL 746C:2018 Ed.7+R:01Sep2021 Clause	
Power Input		30	-	-	
Leakage Current Test		31	-	-	
Operational Tests		32	-	-	
Normal Temperature Tests		33	-	-	
Dielectric Voltage-Withstand Test		35	-	-	
Metal Enclosure Impact tests		39	-	-	
Stability Test		44	-	-	
Pressure Vessels and Parts Subject to Pressure		46A	-	-	
Abnormal Operation Tests		47	-	-	
Secondary Circuit Component Failure Test		48	-	-	
Automatic Controls Test		49	-	-	
Power Input and Current		-	10	-	
Heating		-	11	-	
Leakage Current and Electric Strength at Operating Temperature		-	13	-	
Moisture Resistance		-	15	-	
Abnormal Operation Test		-	19	-	
Stability and Mechanical Hazards		-	20	-	
Mechanical Strength		-	21	-	
Construction		-	22	-	
Creepage Distance and Clearance		-	29	-	
Resistance to heat and fire		-	30	-	
Resistance To Impact Test		-	-	56	
Mold Stress-Relief Distortion Test		-	-	61	
Evaluation Period	8-Apr-2022 ~ 23-Sep-2022		Project No.	220408002GZU	
Sample Rec. Date	8-Apr-2022	Condition	Prototype	Sample ID.	1#~40#
Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)				
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1				
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 1082:2009 Ed.6+R:28Sep2017 Clause	CSA C22.2#60335-1:2016 Ed.2 and (R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1 Clause	-
Power Input		30	-	-
Operational Tests		32	-	-
Normal Temperature Tests		33	-	-
Dielectric Voltage-Withstand Test		35	-	-
Pressure Vessels and Parts Subject to Pressure		46A	-	-
Abnormal Operation Tests		47	-	-
Power Input and Current		-	10	-
Heating		-	11	-
Leakage Current and Electric Strength at Operating Temperature		-	13	-
Abnormal Operation Test		-	19	-
Construction		-	22	-
Resistance to heat and fire		-	30	-
Evaluation Period	13-Jan-2023 ~ 16-Jan-2023		Project No.	230113160GZU
Due to the previous testing performed and reported above, no additional testing was necessary for standard CSA C22.2#60335-2-15:2014 Ed.1+A1;U1;A2.				
Evaluation Period	10-May-2023 ~ 31-Jul-2023		Project No.	230510062GZU
Sample Rec. Date	10-May-2023	Condition	Prototype	Sample ID. S230510062-001~009
Test Location	Intertek Testing Services Shenzhen Limited Guangzhou Branch (Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China).			
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 1082:2009 Ed.6+R:03Mar2023 Clause	CSA C22.2#60335-1:2016 Ed.2 and CSA C22.2#60335-2-15:2014 Ed.1+A1;U1;A2 Clause	UL 746C:2018 Ed.7+R:30Jun2022 Clause
Power Input		30	-	-
Leakage Current Test		31	-	-
Operational Tests		32	-	-
Normal Temperature Tests		33	-	-
Dielectric Voltage-Withstand Test		35	-	-
Stability Test		44	-	-
Pressure Vessels and Parts Subject to Pressure		46A	-	-
Abnormal Operation Tests		47	-	-
Secondary Circuit Component Failure Test		48	-	-
Power Input and Current		-	10	-
Heating		-	11	-
Leakage Current and Electric Strength at Operating Temperature		-	13	-
Moisture Resistance		-	15	-

8.0 Test Summary					
Abnormal Operation Test		-	19	-	
Stability and Mechanical Hazards		-	20	-	
Mechanical Strength		-	21	-	
Construction		-	22	-	
Creepage Distance and Clearance		-	29	-	
Resistance To Impact Test		-	-	56	
Mold Stress-Relief Distortion Test		-	-	61	
Evaluation Period	1-Sep-2023 ~ 25-Dec-2023			Project No.	230901002GZU
Sample Rec. Date	1-Sep-2023	Condition	Prototype	Sample ID.	1#~80#, L1~L18, S1~S9
Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)				
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1				
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 1082:2009 Ed.6+R:03Mar2023 Clause	CSA C22.2#60335-1:2016 Ed.2 and CSA C22.2#60335-2-15:2014 Ed.1+A1;U1;A2 Clause	UL 746C:2018 Ed.7+R:30Jun2022 Clause	
Power Input		30	-	-	
Leakage Current Test		31	-	-	
Operational Tests		32	-	-	
Normal Temperature Tests		33	-	-	
Dielectric Voltage-Withstand Test		35	-	-	
Strain Relief Test		37	-	-	
Push-Back Relief Test		38	-	-	
Stability Test		44	-	-	
Pressure Vessels and Parts Subject to Pressure		46A	-	-	
Abnormal Operation Tests		47	-	-	
Secondary Circuit Component Failure Test		48	-	-	
Automatic Controls Test		49	-	-	
Power Input and Current		-	10	-	
Heating		-	11	-	
Leakage Current and Electric Strength at Operating Temperature		-	13	-	
Moisture Resistance		-	15	-	
Leakage Current and Electric Strength		-	16	-	
Abnormal Operation Test		-	19	-	
Stability and Mechanical Hazards		-	20	-	
Mechanical Strength		-	21	-	
Construction		-	22	-	
Supply connection and external flexible cords		-	25	-	
Creepage Distance and Clearance		-	29	-	
Resistance to heat and fire		-	30	-	
Strain-Relief Test after Mold Stress-Relief Distortion		-	-	31	
Resistance To Impact Test		-	-	56	
Mold Stress-Relief Distortion Test		-	-	61	
Evaluation Period	5-Mar-2024 ~ 17-Jul-2024			Project No.	240305146GZU
Sample Rec. Date	5-Mar-2024	Condition	Prototype	Sample ID.	1#~12#

8.0 Test Summary			
Test Location	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD. (Address: Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province, China)		
Test Procedure	Testing at Manufacturers Premises (TMP) - Level 1		
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 1082:2009 Ed.6+R:03Mar20 23 Clause	CSA C22.2#60335- 1:2016 Ed.2 and CSA C22.2#60335- 2-15:2014 Ed.1+A1;U1;A2 Clause	UL 746C:2018 Ed.7+R:30Nov202 3 Clause
Operational Tests	32	-	-
Normal Temperature Tests	33	-	-
Abnormal Operation Tests	47	-	-
Secondary Circuit Component Failure Test	48	-	-
Automatic Controls Test	49	-	-
Heating	-	11	-
Abnormal Operation Test	-	19	-
Construction	-	22	-
Mold Stress-Relief Distortion Test	-	-	61
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:	Eason Zhong	Reviewed by:	Sidney Guo
Title:	Asst. Engineer	Title:	Team Leader
Signature:	<i>Signature on file</i>	Signature:	<i>Signature on file</i>

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	GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD
Address	Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province
Country	China
Product	Coffee Maker

MULTIPLE LISTEE 1	OEM TECHNOLOGY INC
Address	98 Wadsworth Blvd #127-3016, Lakewood, CO 80226
Country	USA
Brand Name	Laekerrt
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 1 MODELS	BASIC LISTEE MODELS
CMEP02	CM5418GA-UL

MULTIPLE LISTEE 2	MDL TRADING INC
Address	1824 Kaiser Ave Irvine, California, 92614
Country	USA
Brand Name	Cavdle
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 2 MODELS	BASIC LISTEE MODELS
CMEP02	CM5418GA-UL

MULTIPLE LISTEE 3	Electrolux (China) Home Appliances Co., Ltd.
Address	30th Floor, West Tower, Raffles City the Bund, NO. 168 Gong Ping Road, Hong Kou District, Shanghai, 200082
Country	China
Brand Name	FRIGIDAIRE
ASSOCIATED MANUFACTURER	All manufacturers shown in Section 1.0
Address	
Country	
MULTIPLE LISTEE 3 MODELS	BASIC LISTEE MODELS
FREM100SS	CM5418IA-UL

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 Shenzhen Limited Guangzhou Branch

ETL Component Evaluation Center

Room 101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District

Guangzhou, Guangdong, China

Attn: Ms. Joey Kuang

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

Polarization 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, contractors, 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

11.2 Polarization Test**Method**

Each appliance provided with a polarized attachment plug (2-wire plug with one blade wider than the other) shall be tested for electrical continuity between the grounded supply-circuit conductor of the attachment plug (wide blade of a 2-wire plug) and the part of the appliance that is intended to be connected to the grounded supply-circuit conductor. If the continuity cannot be readily determined by visual inspection and component checking, an electrical-continuity test is to be made.

Test Equipment

Any indication device, such as an ohmmeter, a battery and buzzer combination, or the like, is to be used to determine compliance with the above requirement.

Products Requiring Polarization Test:

All products covered by this Report.

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
19-Aug-2021	Chris ZK Huang	1.0	-	Changed CSA standard title from "Safety Of Household And Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2]" to "Safety of Household and Similar Appliances - Part 1: General Requirements [CSA C22.2#60335-1:2016 Ed.2]".
210630122G ZU		2.0	-	Added information of new model CM5418BC-UL.
	Sidney Guo	3.0	18	Added photo of External view of model CM5418BC-UL.
		3.0	19 thru 21	Added photos of Internal view of model CM5418BC-UL.
		3.0	22	Added photo of Power PCB view of model CM5418BC-UL.
		4.0	43	Added description of Relay, type LRD-S-105DMF.
		4.0	52 thru 55	Added description "Only for CM5418-UL".
		4.0	62	Added description of Pressure Gauge.
		4.0	63	Added description of Control PCB Bracket.
		6.0	7	Changed description from "Refer to Illustration No(s). 3, 3a thru 3c for schematics requiring verification during Field Representative Inspection Audits" to "Refer to Illustration Nos. 3, 3a thru 3g for schematics requiring verification during Field Representative Inspection Audits".
		7.0	3d	Added Circuit Diagram for CM5418BC-UL employed with Pump Protector.
		7.0	3e	Added Circuit Diagram for CM5418BC-UL without Pump Protector.
		7.0	3f, 3g	Added Circuit Diagram for CM5418BC-UL.
		7.0	4b	Added PCB Layout for CM5418BC-UL.
		8.0	-	Added new test block in Sec. 8.0.
		8.1	-	Revised with new signatures.
8-Oct-2021	Chris ZK Huang	2.0	-	Added new brand names CASABREWS, Gevi, kcb, Cyetus.
210728169G ZU		2.0	-	Added information of new models CM5418E-UL, GECME418E-U, KC5418.
	Sidney Guo	3.0	23	Added photo of External view of model CM5418E-UL.
		3.0	24	Added photo of Internal view of model CM5418E-UL.
		3.0	25	Added photo of Power PCB view of model CM5418E-UL.
		3.0	26	Added photo of Control PCB view of model CM5418E-UL.
		4.0	27d	Changed description from "130°C" to "min. 175°C".
		4.0	64	Added description of Thermostat.
		6.0	7	Changed description from "Refer to Illustration Nos. 3, 3a thru 3g for schematics requiring verification during Field Representative Inspection Audits" to "Refer to Illustration Nos. 3, 3a thru 3k for schematics requiring verification during Field Representative Inspection Audits".
		7.0	3h	Added Circuit Diagram for CM5418E-UL employed with Pump Protector.
		7.0	3i	Added Circuit Diagram for CM5418E-UL without Pump Protector.
		7.0	3j	Added Circuit Diagram for CM5418E-UL.
		7.0	3k	Added Circuit Diagram for CM5418E-UL.
		7.0	4c	Added PCB Layouts for CM5418E-UL
		8.0	-	Added new test block in Sec. 8.0.
		8.1	-	Revised with new signatures.

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
31-Dec-2021	Chris ZK Huang	3.0	27 thru 29	Added photos of Optional construction for all models (Employed Main Housing 2, Top Housing 2 and Insulation Plate)
211112107G ZU		4.0	11	Changed Name from "Main Housing" to "Main Housing 1".
	Sidney Guo	4.0	16	Changed Name from "Top Cover" to "Top Cover 1".
		4.0	18	Changed Name from "Top Housing" to "Top Housing 1".
		4.0	65	Added description of Main Housing 2, type ABS-750SW.
		4.0	66	Added description of Top Housing 2, type ABS-750SW.
		4.0	67	Added description of Top Cover 2, type ABS-750SW.
		4.0	68	Added description of Insulation Plate, type SE42.
		8.0	-	Added new test block in Sec. 8.0.
		8.1	-	Revised with new signatures.
11-Jan-2022	Chris ZK Huang	2.0	-	Added new brand name Laekerrt.
211224181G ZU		2.0	-	Added information of new models CM5418GA-UL, CMEP02.
	Sidney Guo	3.0	30	Added photo of External view of model CM5418GA-UL.
		3.0	31	Added photo of Internal view of model CM5418GA-UL.
		6.0	7	Changed description from "Refer to Illustration Nos. 3, 3a thru 3k for schematics requiring verification during Field Representative Inspection Audits" to "Refer to Illustration Nos. 3, 3a thru 3l for schematics requiring verification during Field Representative Inspection Audits".
		6.0	8	Changed description from "applicant's name or brand name" to "applicant's name, brand name or MULTIPLE LISTEE's name".
		7.0	3l	Added Circuit Diagram for CM5418GA-UL.
		8.0	-	Added new test block in Sec. 8.0.
		8.1	-	Revised with new signatures.
		9.0	1	Added MULTIPLE LISTEE 1 "OEM TECHNOLOGY INC" for model CMEP02 with brand name Laekerrt.
8-Mar-2022	Jam Chen	1.0	-	Added Manufacturer 2.
220302002G ZU		9.0	1	Changed ML1 ASSOCIATED MANUFACTURER from "GUANG DONG XINBAO ELECTRICAL APPLIANCES HOLDINGS CO., LTD" to "All manufacturers shown in Section 1.0". Deleted ML1 ASSOCIATED MANUFACTURER address "Zhenghe South Road, Leliu Town, Shunde District, Foshan City, Guangdong Province". Deleted ML1 ASSOCIATED MANUFACTURER Country China.
	Sidney Guo			
1-Aug-2022	Chris ZK Huang	2.0	-	Added new brand name Calphalon.
220513120G ZU		2.0	-	Added information of new models CM5706-UL, CM5706A-UL, BVCLECM-PMPMN may be followed by fourteen characters, BVCLECM-PMPMNG may be followed by fourteen characters.
	Sidney Guo	3.0	32, 33	Added photos of External view of model CM5706A-UL.
		3.0	34 thru 39	Added photos of Internal view of model CM5706A-UL.
		3.0	40	Added photo of External view of model CM5706-UL.
		3.0	41	Added photo of Internal view of model CM5706-UL.
		4.0	4	Added description of Button, Type TR557(m).
		4.0	5a	Added description of Funnel Handle, Thermosets material.
		4.0	24	Added description of Flowmeter, Type F001.
		4.0	25	Added description of Pump, Type EP5FM.

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
		4.0	38	Added description of Control PCB Holder, Type R513H, R533H(f1), 70G43L.
		4.0	42	Added description of Connector, Type VH series.
		4.0	52, 54	Changed description from "Only for CM5418-UL" to "Only for CM5418-UL, CM5706-UL, CM5706A-UL".
		4.0	53	Added description of Resistor, 39ohm.
		4.0	55	Changed description from "Only for CM5418-UL" to "Only for CM5418-UL, CM5706-UL, CM5706A-UL" for Type Y3F-SS-105DM.
		4.0	55	Added description of Relay, Type HJR-3FF-S-HF, HJR-3FF-S-H, SRD-S-105DM-F, MPA-S-112-A.
		4.0	64	Changed description from "Only for CM5418E-UL" to "Only for CM5418E-UL, CM5706-UL, CM5706A-UL".
		6.0	7	Changed description from "Illustration Nos. 3, 3a thru 3l" to "Illustration Nos. 3, 3a thru 3o".
		7.0	1	Updated Cautionary Marking.
		7.0	3m	Added Circuit Diagram for CM5706A-UL, CM5706-UL without Pump Protector.
		7.0	3n	Added Circuit Diagram for CM5706A-UL, CM5706-UL with Pump Protector.
		7.0	3o	Added Circuit Diagram for CM5706A-UL, CM5706-UL.
		7.0	4d	Added Power PCB Layouts for CM5706A-UL, CM5706-UL.
		7.0	4e	Added Control PCB Layouts for CM5706A-UL, CM5706-UL.
		7.0	5	Changed title from "Drawing for Heater" to "Drawing for Heat Element".
		8.0	-	Added new test block in Sec. 8.0.
		8.1	-	Revised with new signatures.
23-Sep-2022	Chris ZK Huang	3.0	42	Added photo of Optional Steam Tube view of models CM5418-UL, CM5418BC-UL, CM5418GA-UL.
220408002G ZU		3.0	43	Added photo of Optional Convert Switch Assembly view of models CM5418-UL, CM5418BC-UL, CM5418GA-UL (Micro Switch was fixed on the side).
	Sidney Guo	4.0	25	Changed Manufacturer/ trademark description from "CEME SPA ULKA COFFEE DIV" to "CEME S.p.A. a Socio Unico" of Pump, type EP4, EP5, EP5FM.
		4.0	25	Added description of Pump, type EP4FM.
		8.0	-	Added new test block in Sec. 8.0.
		8.1	-	Revised with new signatures.
30-Nov-2022	Eason Zhong	9.0	2	Added multiple listee 2 "MDL TRADING INC", model CMEP02 with brand name Cavdle.
221123066G ZU				
	Sidney Guo			
16-Jan-2023	Eason Zhong	1.0	-	Updated standard from "(R2019) [CSA C22.2#60335-2-15:2014 Ed.1+A1;U1]" to "CSA C22.2#60335-2-15:2014 Ed.1+A1;U1;A2".
230113160G ZU		4.0	24	Correct type number from "F001" to "F001-12A-01" for Flowmeter manufactured by Yifeng Technologies Co.,Ltd.
	Benson Li	4.0	24	Added an optional Flowmeter type JYLCG-2A, manufactured by Ningbo Jiayin Electro Mechanical Technology Co., Ltd. No evaluation to the standards is needed.
		4.0	24	Added an optional Flowmeter type AB32-S21PO12C-11R3, manufactured by ODE (HK) Company Limited. No evaluation to the standards is needed.
		8.0	-	Added a new test block.
		8.1	-	Revised with new signatures.

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
31-Jul-2023	Chris ZK Huang	1.0	-	Updated UL standard from "[UL 1082:2009 Ed.6+R:28Sep2017]" to "[UL 1082:2009 Ed.6+R:03Mar2023]".
230510062G ZU		2.0	-	Added description of new model CM5418I-UL.
	Sidney Guo	3.0	44, 45	Added photos of External view of model CM5418I-UL.
		3.0	46 thru 52	Added photos of Internal view of model CM5418I-UL.
		3.0	53	Added photo of Alternative construction view of models CM5418E-UL, CM5418BC-UL.
		4.0	69	Added description of Control Panel.
		6.0	7	Changed description from "3, 3a thru 3o" to "3, 3a thru 3q".
		7.0	3p, 3q	Added Circuit Diagram for CM5418I-UL.
		7.0	4f	Added Power PCB Layouts for CM5418I-UL.
		7.0	4g	Added Control PCB Layouts for CM5418I-UL.
		8.0	-	Added a new test block.
		8.1	-	Revised with new signatures.
25-Dec-2023	Chris ZK Huang	2.0	-	Added new brand name Aiosa.
230901002G ZU		2.0	-	Added information of new models CM5432-UL, CMEP04.
	Sidney Guo	3.0	54, 55	Added photos of External view of model CM5432-UL.
		3.0	56 thru 62	Added photos of Internal view of model CM5432-UL.
		4.0	3	Changed description from "Min. 0.4mm thick" to "Min. 0.3mm thick".
		4.0	8	Changed description from "Stainless steel tube. Φ8mm." to "Stainless steel or aluminum steel tube. Φ8mm or Φ6mm".
		4.0	19	Added description of Funnel Support, type HJ730L, HJ801R, H8020.
		4.0	25	Added description of Pump, type JYPC-503A.
		4.0	29b	Added description "or 120Vac/15A".
		4.0	70	Added description of Top Cover 3.
		4.0	71	Added description of Back Cover.
		4.0	72	Added description of Base.
		4.0	73	Added description of Bottom Cover 2.
		4.0	74	Added description of Main Housing 3.
		4.0	75	Added description of Top Housing 3.
		4.0	76	Added description of Water Boiler 2.
		4.0	76a	Added description of Body.
		4.0	76b	Added description of Heat Element 2.
		4.0	76c	Added description of Heat Element Clamp Sheet.
		4.0	76d	Added description of Water Circulating Tube.
		4.0	76e	Added description of Seal Ring.
		4.0	77	Added description of Thermal Fuse Assembly 2.
		4.0	77a	Added description of Thermal Fuse Tube.
		4.0	77b	Added description of Thermal Fuse.
		4.0	77c	Added description of Clamp Sheet.
		4.0	78	Added description of Combination PCB.
		4.0	79	Added description of Relay 2.
		4.0	80	Added description of Varistor 2.
		4.0	81	Added description of X2 Capacitor 2.
		4.0	82	Added description of Combination PCB Insulation Sheet.
		4.0	83	Added description of Control Panel 2.
		4.0	84	Added description of Press Key.

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
		6.0	7	Changed description from "3, 3a thru 3q" to "3, 3a thru 3s".
		6.0	12	Added description of Logo Dependent Marking.
		7.0	3r, 3s	Added Circuit Diagram for CM5432-UL.
		7.0	4h	Added Combination PCB Layouts for CM5432-UL.
		7.0	7	Added Drawing for Water Boiler 2.
		7.0	8	Added Drawing for Heat Element 2.
		8.0	-	Added a new test block.
		8.1	-	Revised with new signatures.
21-Mar-2024	Eason Zhong	2.0	-	Added information of new model CM5418IA-UL.
231215020GZU		3.0	44	Updated photo.
	Sidney Guo	3.0	63, 64	Added new photo.
		4.0	64	Changed text from "Only for CM5418E-UL, CM5706-UL, CM5706A-UL." to "Only for CM5418E-UL, CM5706-UL, CM5706A-UL, CM5418I-UL, CM5418IA-UL." for Thermostat type KSD301-G and T1/33.
		9.0	3	Added multiple listee 3 "Electrolux (China) Home Appliances Co., Ltd.", model FREM100SS with brand name FRIGIDAIRE.
17-Jul-2024	Eason Zhong	2.0	-	Added information for new models CM5418EA-UL, ECMA0SS0A1, ECMA0SS0A2, ECMB0, CM5418M-UL, CM5418 BASIC, ECMGO.
240305146GZU		3.0	65-68	Added new photo.
	Sidney Guo	4.0	85-89	Added new components.
		6.0	7	Changed text from "Refer to Illustration Nos. 3, 3a thru 3s for schematics requiring verification during Field Representative Inspection Audits." to "Refer to Illustration Nos. 3, 3a thru 3v for schematics requiring verification during Field Representative Inspection Audits.".
		7.0	3t	Added Circuit Diagram for CM5418M-UL.
		7.0	3u	Added Circuit Diagram for CM5418M-UL.
		7.0	3v	Added Circuit Diagram for CM5418M-UL.
		7.0	4i	Added PCB Layouts for CM5418M-UL.
		8.0	-	Added a new test block.
		8.1	-	Revised with new signatures.
7-Aug-2024	Bill Chen	2.0	-	Added information of new model CM8032S with new brand name Kismile and COWSAR.
240802072GZU	Bill Chen			
	Sidney Guo			
	Sidney Guo			