

	Foshan Alpicool Holding Group Co., Ltd.	Type: CR90X
		Information document No.: IF_CR90X_R10.06_00
		Date: 22.11.2025
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Application for Type Approval Pursuant
 To ECE R10.06
 Relating to Electromagnetic compatibility of an ESA

For: Foshan Alpicool Holding Group Co., Ltd.

Component: DC compressor fridge

Type: CR90X

Place: No.3, ZhenZhu Road, Yang'e, Lunjiao Street, Shunde District, Foshan City, Guangdong Province

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- | | | |
|------|--|---|
| 1. | Make (trade name of manufacturer) | Alpicool,  |
| 2. | Type | CR90X |
| 2.1. | Variant | D20, DM20, D25, D30, DM30, DA30, DM30-P, CR40, CR40S, CR40X, R40, R40M, CR40X-S, R40M-S, R40S, CR50, R50, CR50X, CR50S, R50M, CR50X-S, R50S, R50M-S, CR65S, CR65X-S, CR65X, R65, CR65, DR80, JC80, R80, CR80, R85S, CR85X-S, R85, CR85X, R90, CR90, R90M, R90S, CR90X-S, CR90S, R90M-S, CR90X, CR130, CR130S, |
| 3. | Means of identification of type, if marked on the component/separate technical unit | Variants Designation |
| 3.1. | Location of that marking | Print on the back of the product |
| 4. | Name and address of manufacturer | Foshan Alpicool Holding Group Co., Ltd.
No.3, ZhenZhu Road, Yang'e, Lunjiao Street, Shunde District, Foshan City, Guangdong Province |
| | Name and address of authorized representative, if any | n. a |
| 5. | In the case of components and separate technical units, location and method of affixing of the approval mark | Print on the back of the product |
| 6. | Address (es) of assembly plant(s) | Foshan Alpicool Holding Group Co., Ltd.
No.3, ZhenZhu Road, Yang'e, Lunjiao Street, Shunde District, Foshan City, Guangdong Province |
| 7. | This ESA shall be approved as a | Component |
| 8. | Any restrictions of use and conditions for fitting | n.a |

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9.	Electrical system rated voltage	DC12V/24V Negative ground
10.	Charger: on board/external	n.a.
11.	Charging current: direct current/alternating current (number of phases/frequency)	n.a.
12.	Maximal nominal current (in each mode if necessary)	n.a.
13.	Nominal charging voltage	n.a.
14.	Basic ESA interface functions:	n.a.
15.	Minimum Rsce value (see paragraph 7.11. of this Regulation)	n.a.

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Appendix 1: Description of the ESA

1. Input range : DC12V/24V
2. Consumption power : 80W
3. Resource of X-tal or oscillator : n.a.
4. Main dimensions : See Appendix 1: Description of the ESA Table for details
5. Description/Manual: Once installed, only the front of the fridge is accessible. The fridge is only suitable for cooling, freezing and storing foodstuffs.

Declaration of EUT Family Grouping:

Model No.: D20, DM20, D25, D30, DM30, DA30, DM30-P, CR40, CR40S, CR40X, R40, R40M, CR40X-S, R40M-S, R40S, CR50, R50, CR50X, CR50S, R50M, CR50X-S, R50S, R50M-S, CR65S, CR65X-S, CR65X, R65, CR65, DR80, JC80, R80, CR80, R85S, CR85X-S, R85, CR85X, R90, CR90, R90M, R90S, CR90X-S, CR90S, R90M-S, CR90X, CR130, CR130S

A total of five schemes were tested, including models CR50X, CR65, CR90X, and CR90 (See Table 1 for detailed test model configurations). Since according to the declaration from the applicant, the equipment under test (EUT) has multiple matching schemes. Apart from differences in appearance, color, model, and capacity, The detailed information of each matching scheme is shown in Table 2.

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Table 1: test configuration

Mode	compressor	Volume	power board	display board	Hall Effect Light Switch Board	LED PCB	Fan	Size (mm)
CR50X	ZH35Y	43.4L	power board 3	display board 3	switch board 1	LED 1	BT-D12025 H12M	380*477*532
CR65	DC43Y	58.4L	power board 1	display board 1	switch board 1	LED 1	BT-D12025 H12M	470*431*630
CR65	BSA02 5LCVV	58.4L	power board 2	display board 2	switch board 2	LED 1	BT-D12025 H12M	470*431*630
CR90	BSA05 7NCVV	92.9L	power board 5	display board 5	switch board 1	LED 1	BT-D12025 H12M	418*468*976
CR90X	ZH52Y	92.9L	power board 4	display board 4	switch board 2	LED 1	BT-D12025 H12M	418*468*976

Table 2. configuration scheme

Mode	compressor	Volume	power board	display board	Hall Effect Light Switch Board	LED PCB	Fan	Size (mm)
D20	ZH35Y, DC43Y, BSA02 5LCVV, BSA05 7NCVV	14.5L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT-D12025 H12M	440*555*250
DM20		14.5L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT-D12025 H12M	440*555*250

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D25	14.5L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	440*555* 250
D30	25.7L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	440*700* 250
DM30	25.7L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	440*700* 250
DA30	25.7L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	440*700* 250
DM30-P	25.7L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	527*612* 250
R40	34.8L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*544* 532
R40M	34.9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*544* 532
R40M-S	34.9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*544* 532
R40S	34.8L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*544* 532
CR40	35.4L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*544* 532
CR40S	35.4L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*544* 532
CR40X	35.4L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*544* 532

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CR40X-S	35.4L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*544* 532
R50	42.8L	power board 1 power board 2 power board 5	display board 1, display board 2, display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*482* 532
R50S	42.8L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*482* 532
R50M	42.9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*477* 532
R50M-S	42.9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*477* 532
CR50	43.8L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*500* 532
CR50S	43.8L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*500* 532
CR50X	43.4L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*477* 532
CR50X-S	43.4L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	380*477* 532
R65	42.8L	power board 1 power board 2 power board 5	display board 1, display board 2, display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	470*431* 630
CR65	58.4L	power board 1 power board 2	display board 1 display board 2	switch board 1 switch board 2	LED 1	BT- D12025 H12M	470*431* 630
CR65S	58.4L	power board 1 power board 2 power board 5	display board 1, display board 2, display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	470*431* 630

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CR65X		58.4L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	470*431* 630
CR65X-S		58.4L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	470*431* 630
R80	ZH52Y, BSA02 5LCVV, BSA05 7NCVV	78L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	456*500* 830
CR80		78L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	456*500* 830
DR80		79.8L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	456*500* 830
JC80		78L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	456*500* 830
R85		83.4L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	485*459* 790
R85S		83.4L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	485*459* 790
CR85X		83.2	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	485*453* 790
CR85X-S		83.2L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	485*453* 790
R90		92.9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	418*468* 976
R90S		92. 9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	418*468* 976
R90M		92.9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	418*468* 976

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R90M-S		92.9L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	418*468* 976
CR90		92.9L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	418*468* 976
CR90S		92.9L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	418*468* 976
CR90X		92.9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	418*468* 976
CR90X-S		92.9L	power board 3 power board 4	display board 3 display board 4	switch board 1 switch board 2	LED 1	BT- D12025 H12M	418*468* 976
CR130	ZH35Y, DC43Y, BSA02	116.8 L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	470*431* 1260
CR130S	5LCVV, BSA05 7NCVV	116.8 L	power board 1 power board 2 power board 5	display board 1 display board 2 display board 5	switch board 1 switch board 2	LED 1	BT- D12025 H12M	470*431* 1260

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Attachment 1: Photo of the ESA

CR50X



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CR65



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CR90



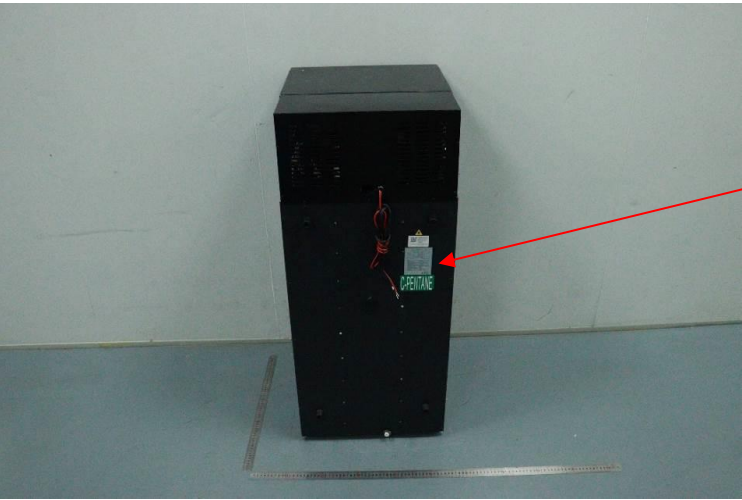
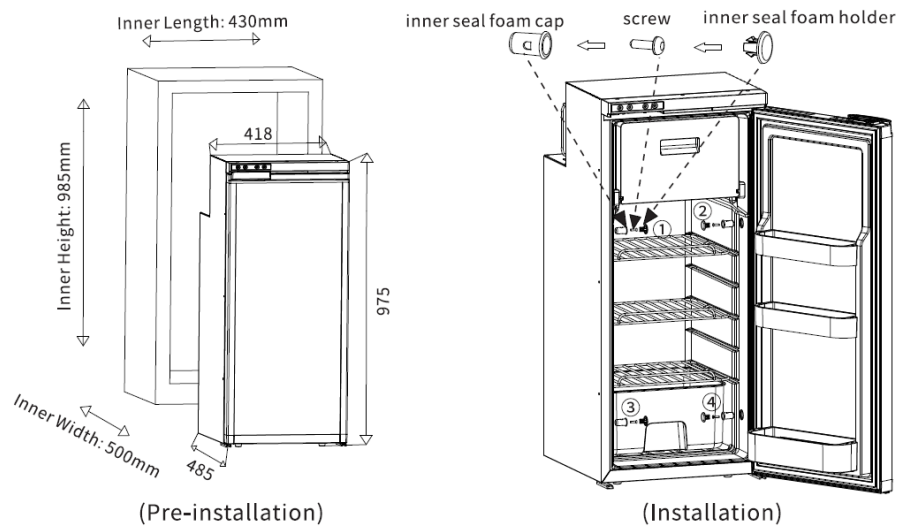
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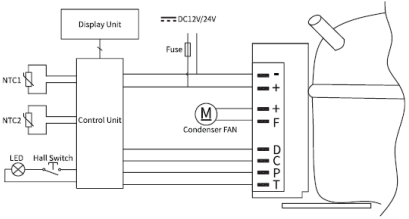
CR90X



Attachment 2: Dimensional drawing

CR90, CR90X



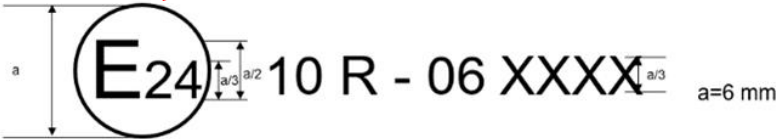


Model	CR90
Climatic Category	T,ST,N,SN
Rated Voltage AC(Adaptor)	100V - 240V 50-60Hz
Rated Voltage DC	12V/24V
Rated Current for AC(Adaptor)	1.5A - 0.7A
Rated Current for DC	6.0A(12V) / 3.0A(24V)
Protective Classification of Electric Shock Resistance	
Refrigerant	R600a(20g),R1234yf(40g)
Foam Vesicant	C ₅ H ₁₀

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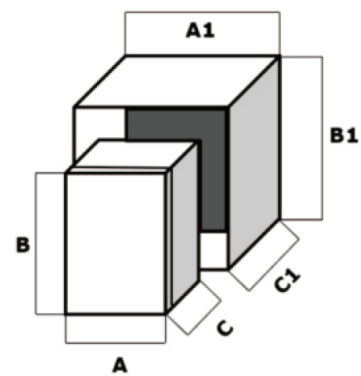




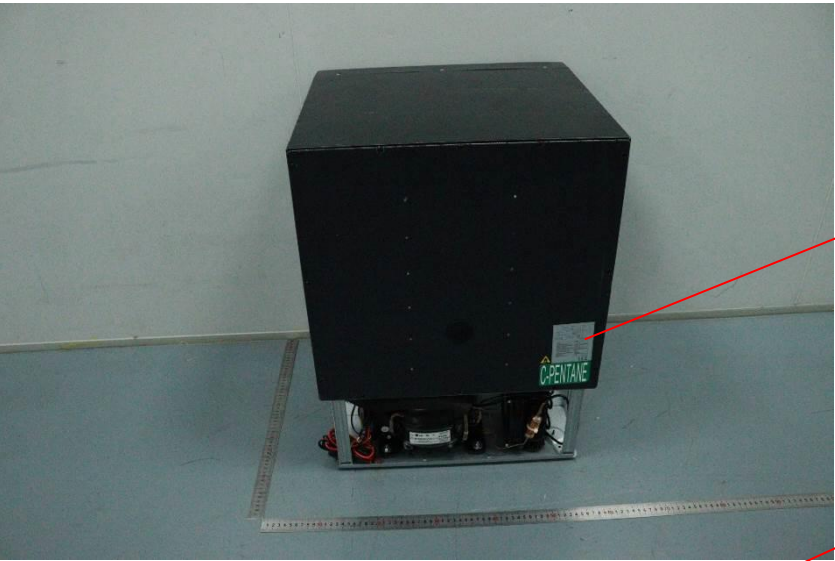
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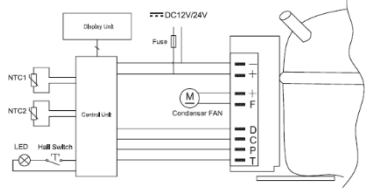
CR65



There should be a minimum of 50mm of space at the rear and top of the refrigerator and 20mm on each side.

Model	Product Dimension (A*C*B)	Recommended Installation Dimension(A1*B1*C1)
CR65	470*451*630mm	510*481*680mm



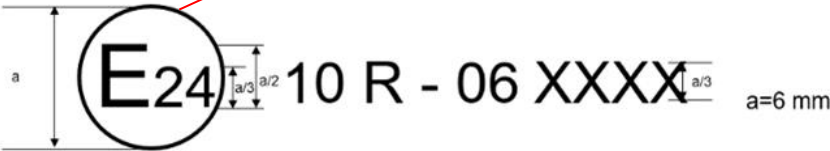


Model	CR65
Climatic Category	T,ST,N,SN
Rated Voltage AC(Adaptor)	100V - 240V 50-60Hz
Rated Voltage DC	12V/24V
Rated Current for AC(Adaptor)	1.2A - 0.5A
Rated Current for DC	5.0A(12V) / 2.5A(24V)
Protective Classification of Electric Shock Resistance	
Refrigerant	R600a(20g), R1234yf(40g)
Foam Vesicant	C ₆ H ₁₀

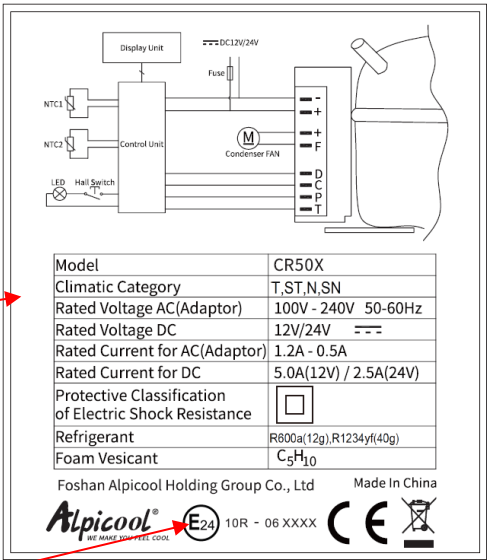
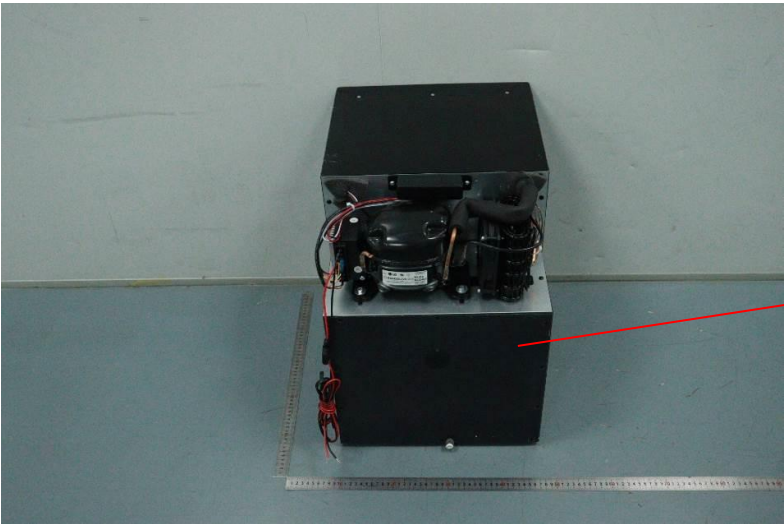
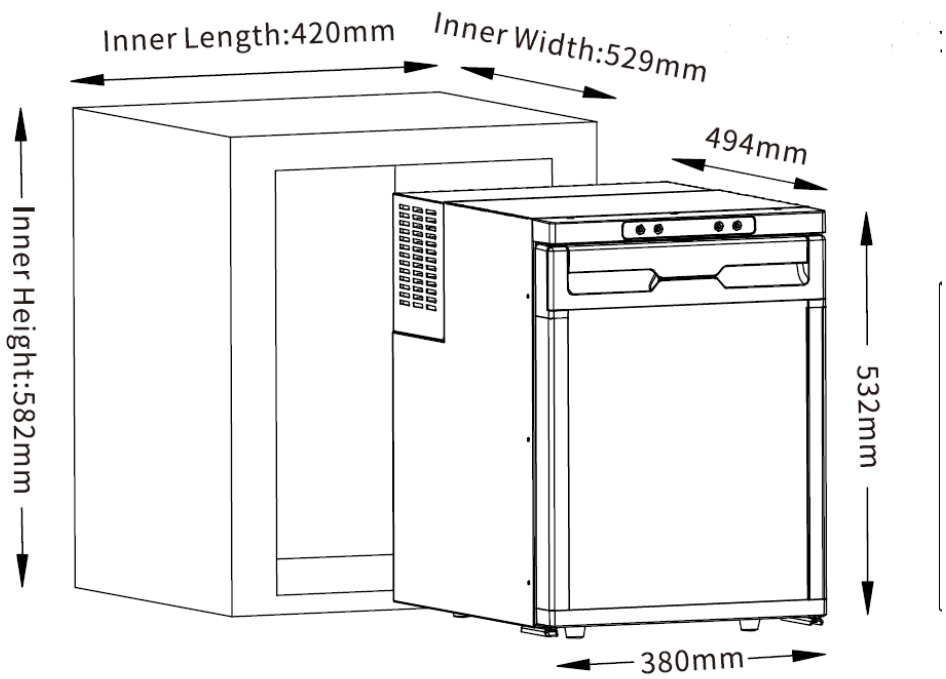
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CR50X





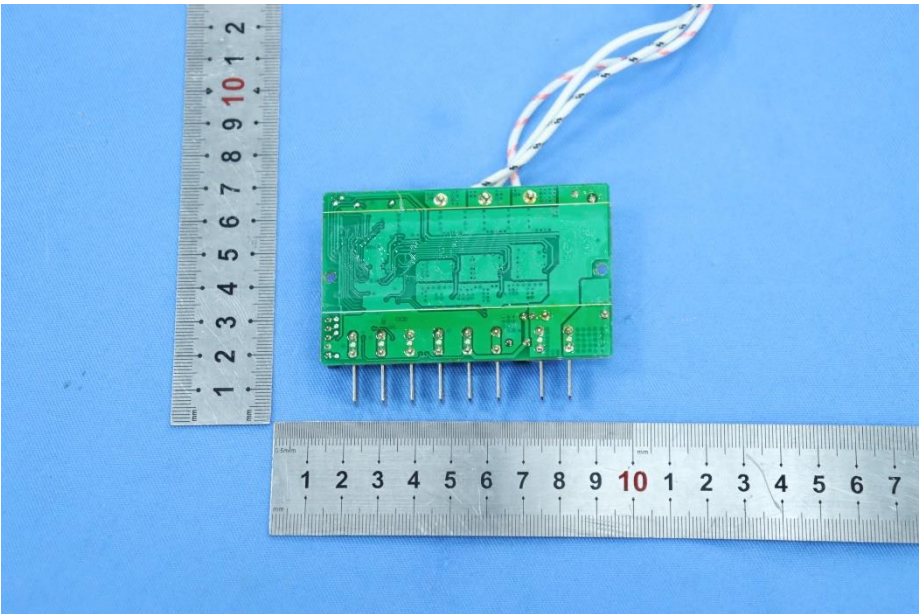
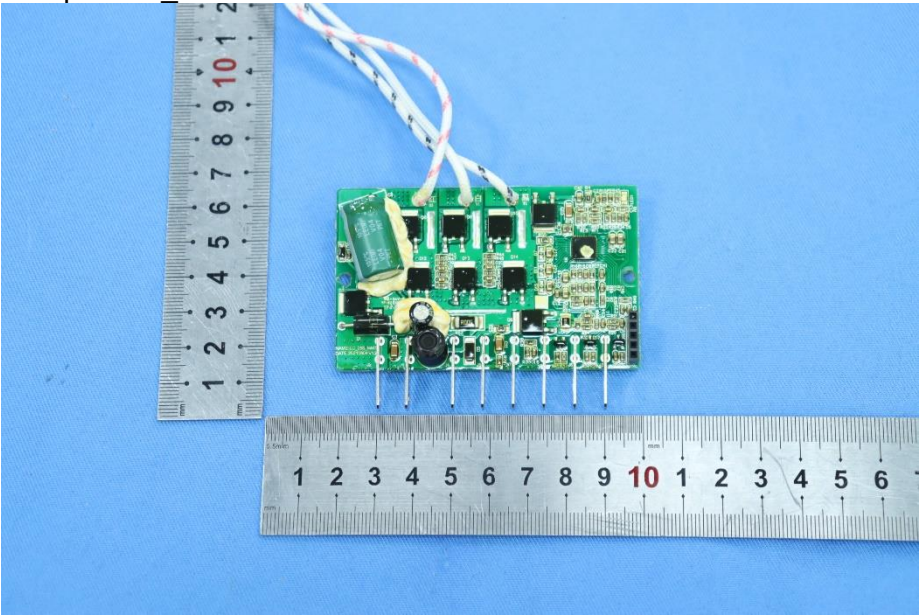


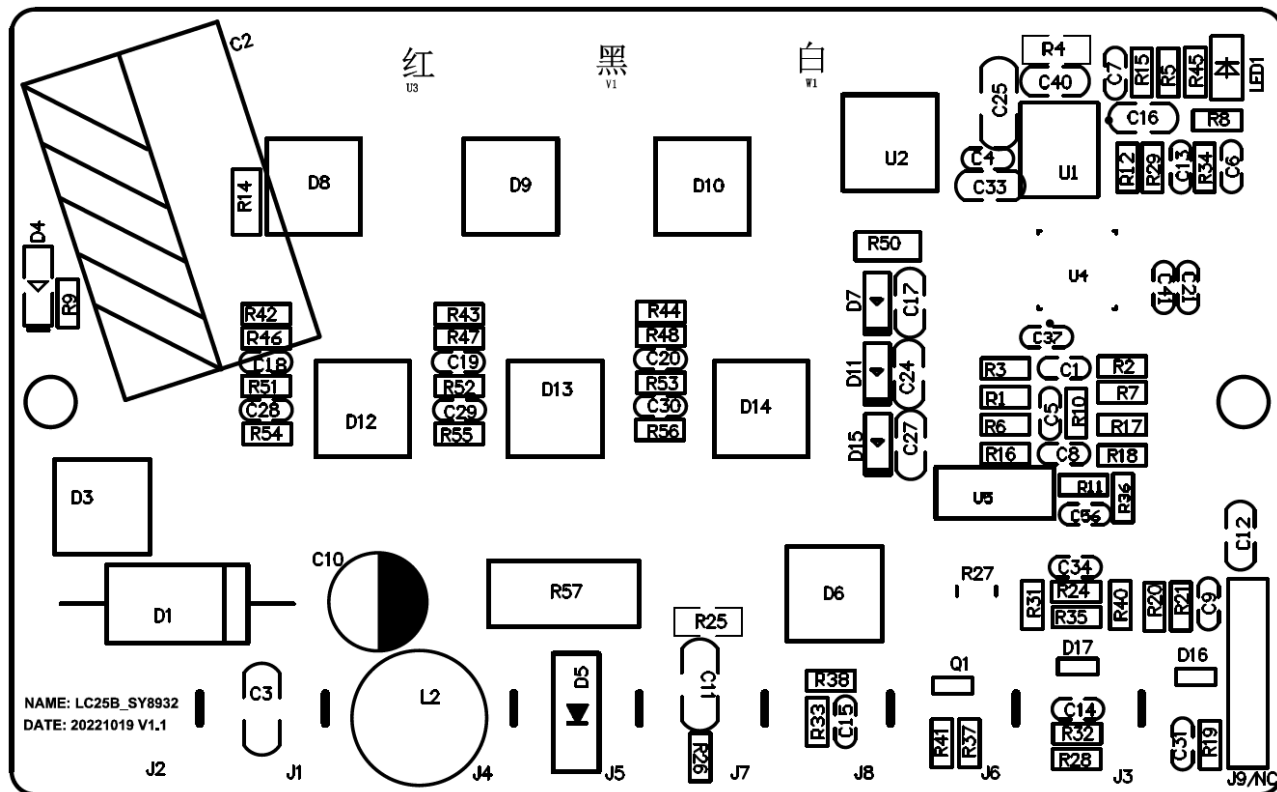


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Attachment 3: Photo of the PCB

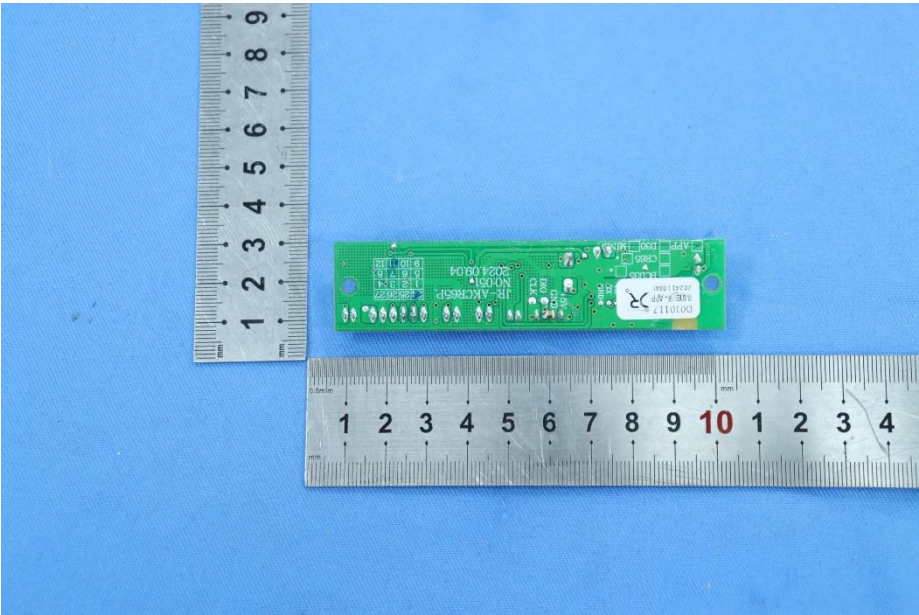
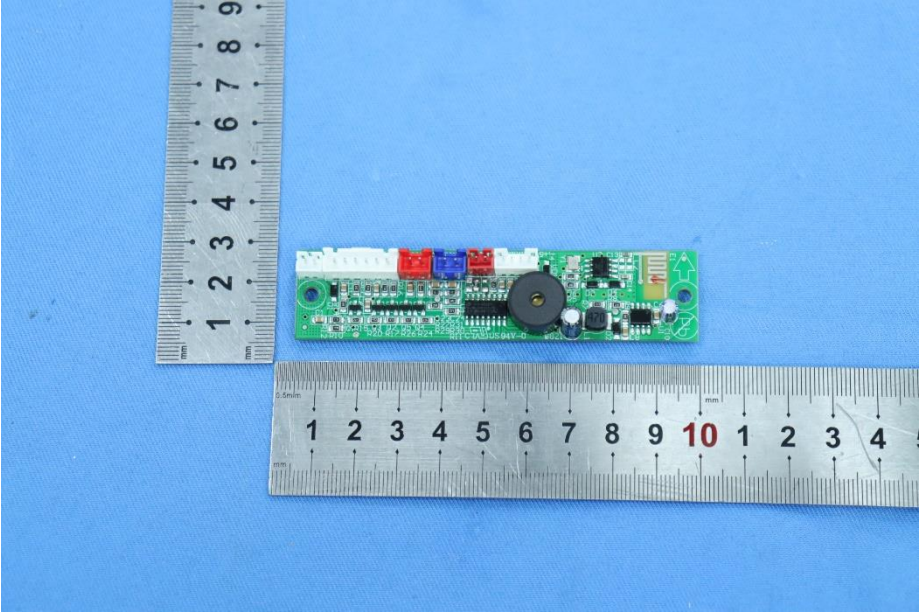
CR50X
Compressor_ZH35Y

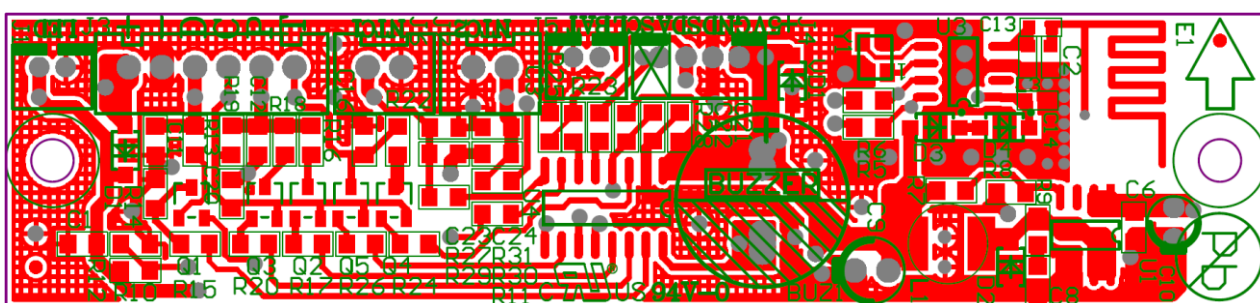




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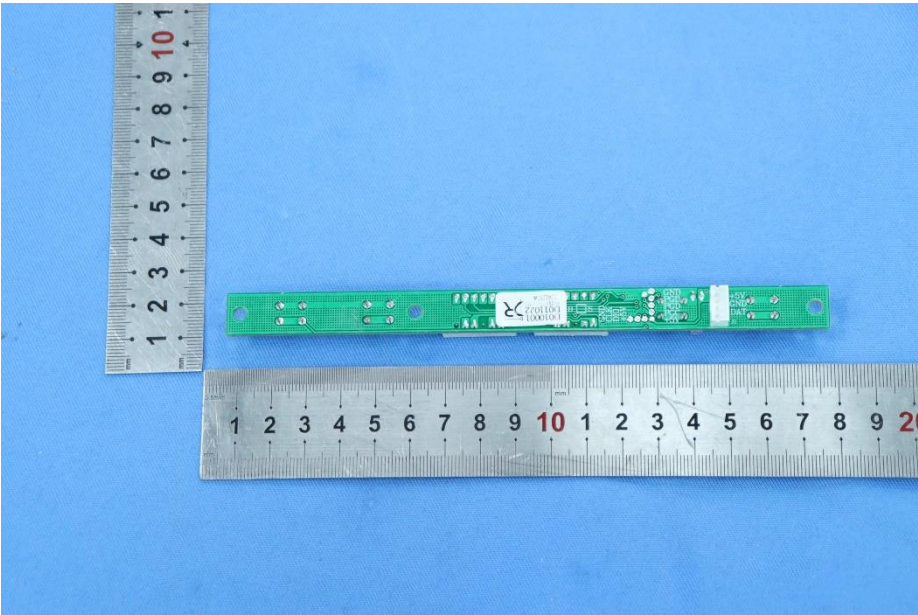
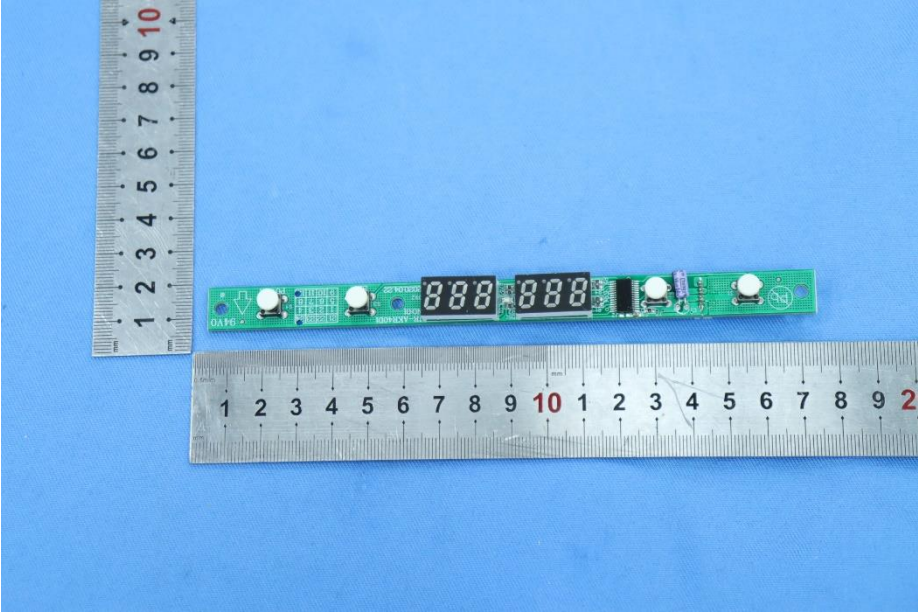
power board 3

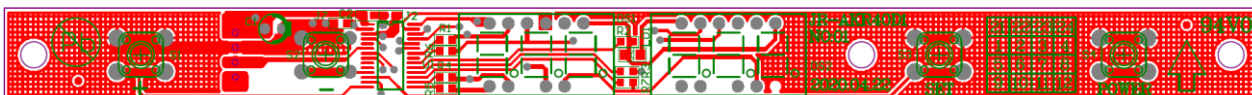
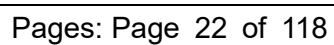




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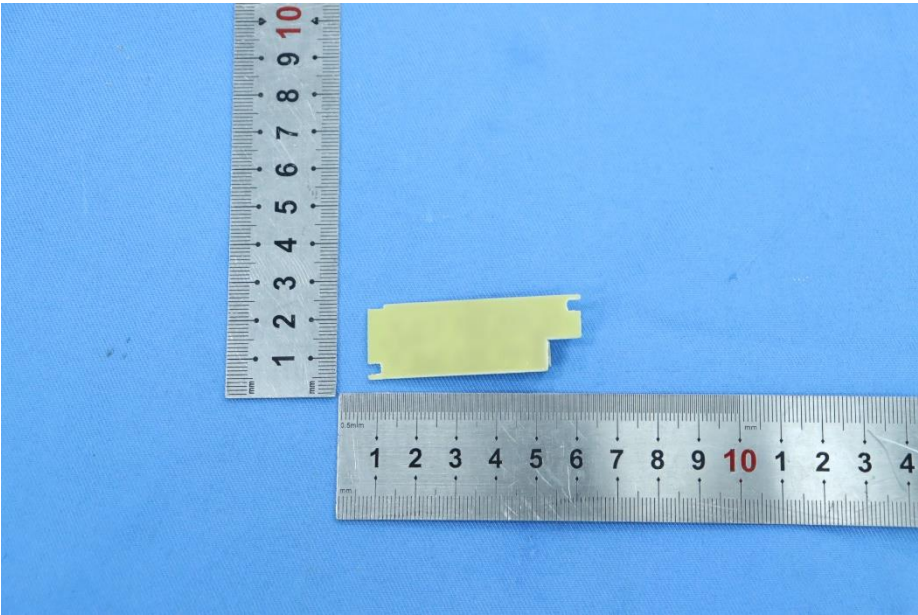
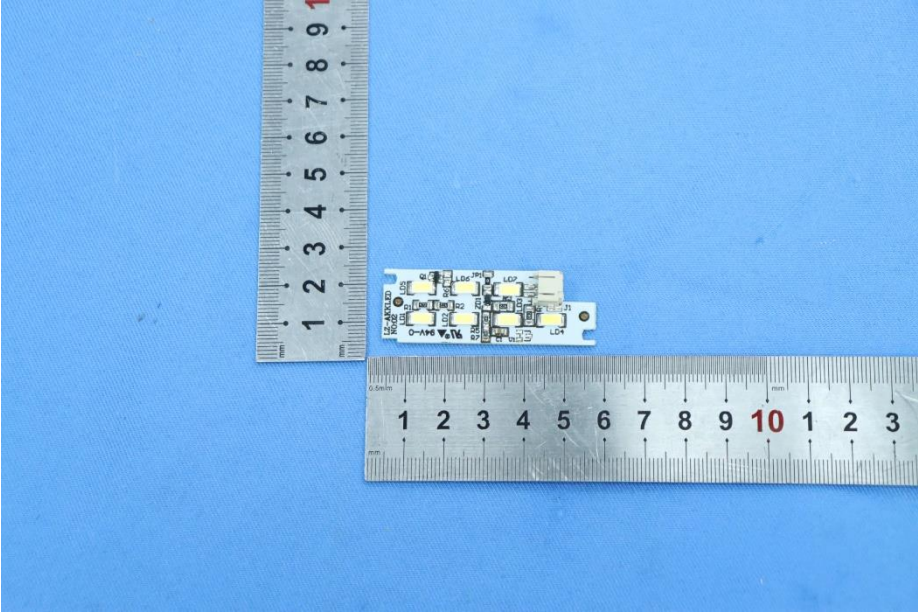
display board 3



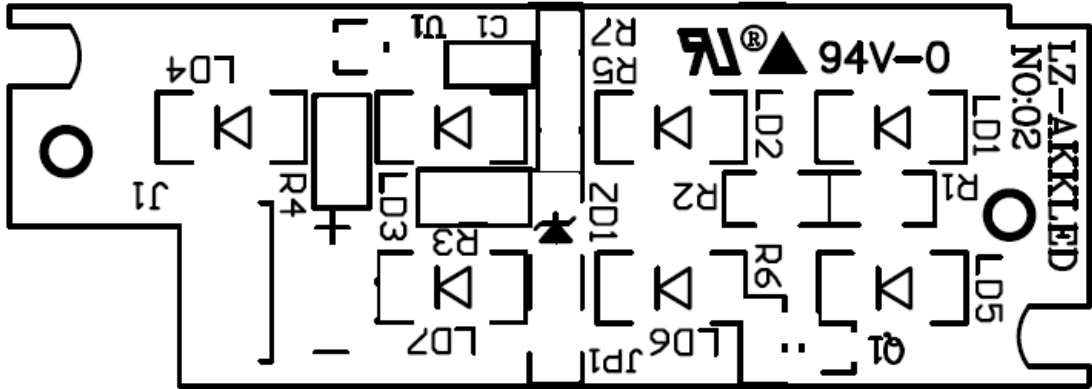
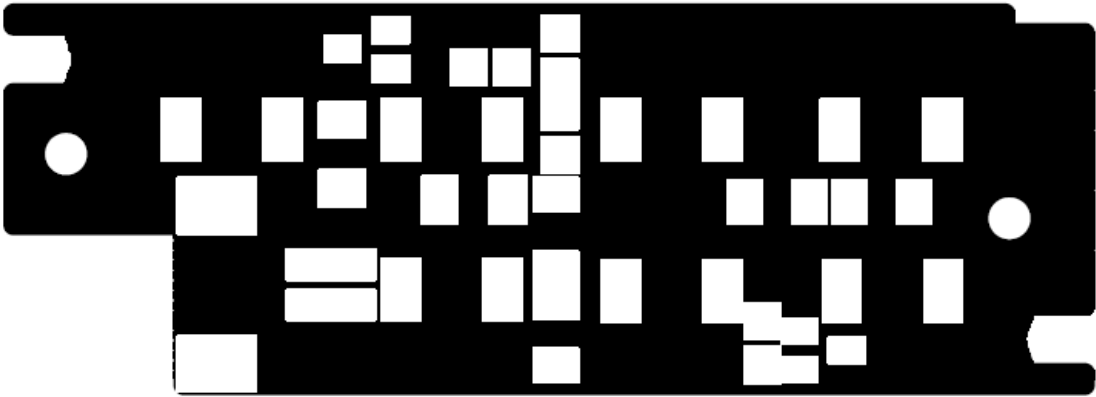
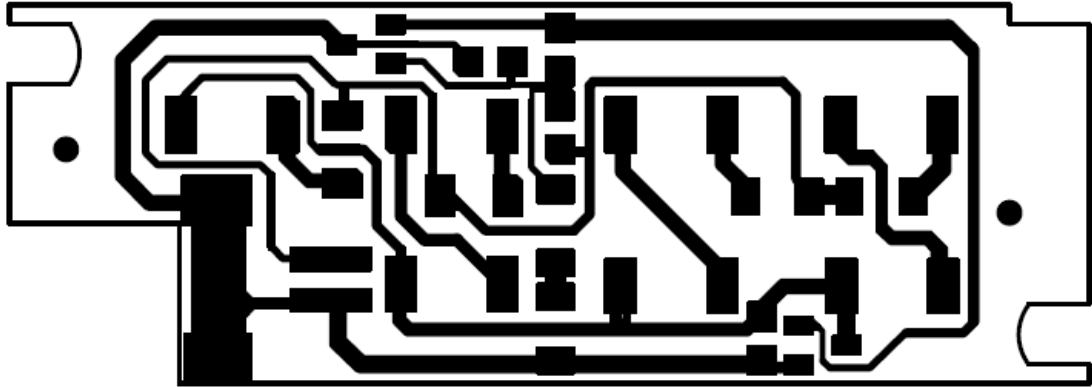


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LED 1

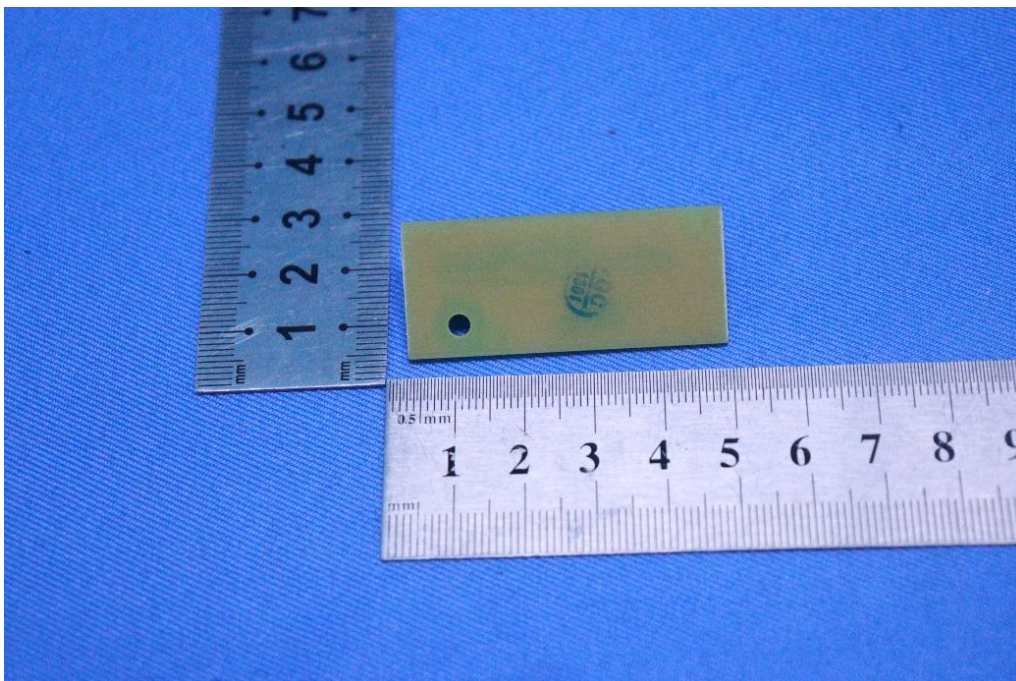
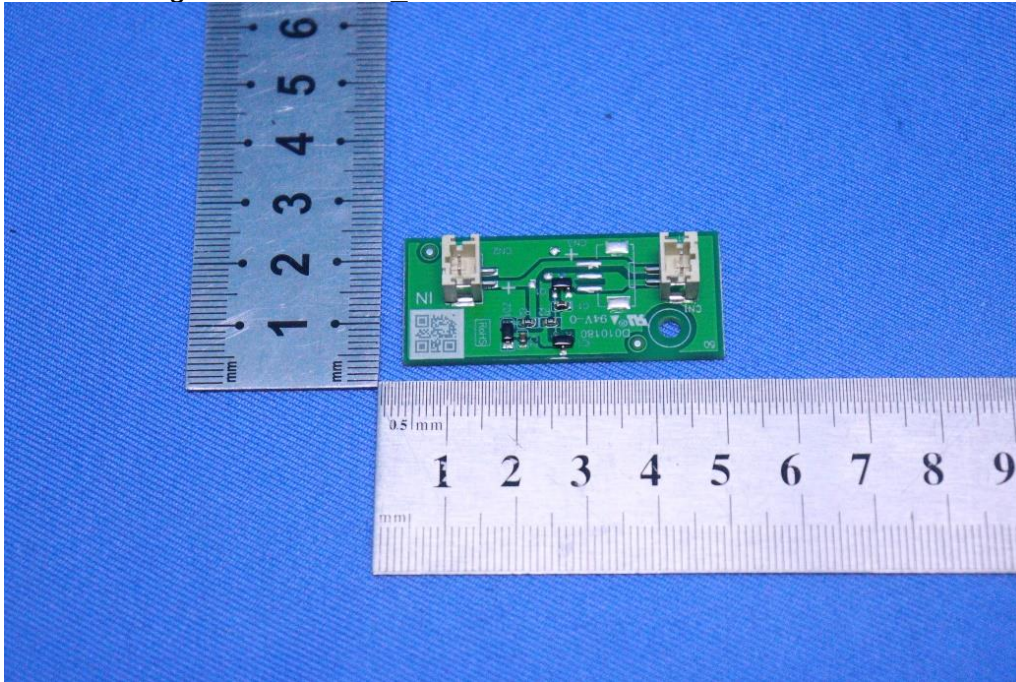


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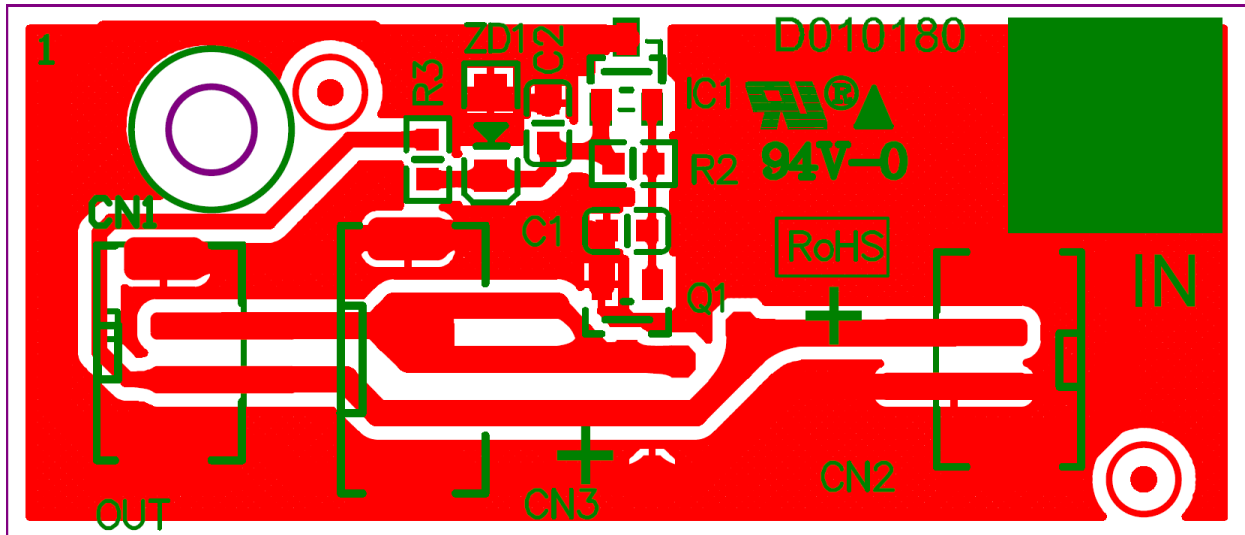


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Hall Effect Light Switch Board 1

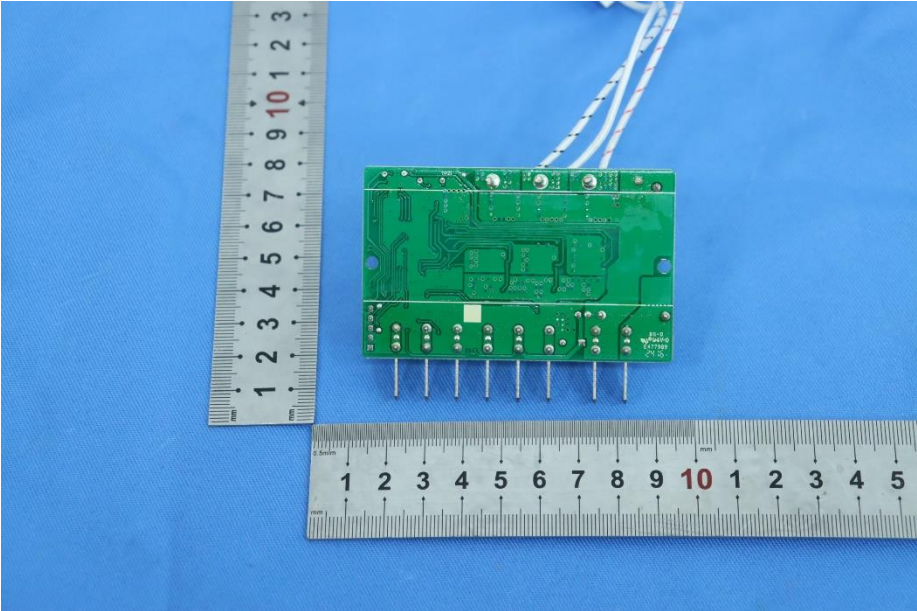
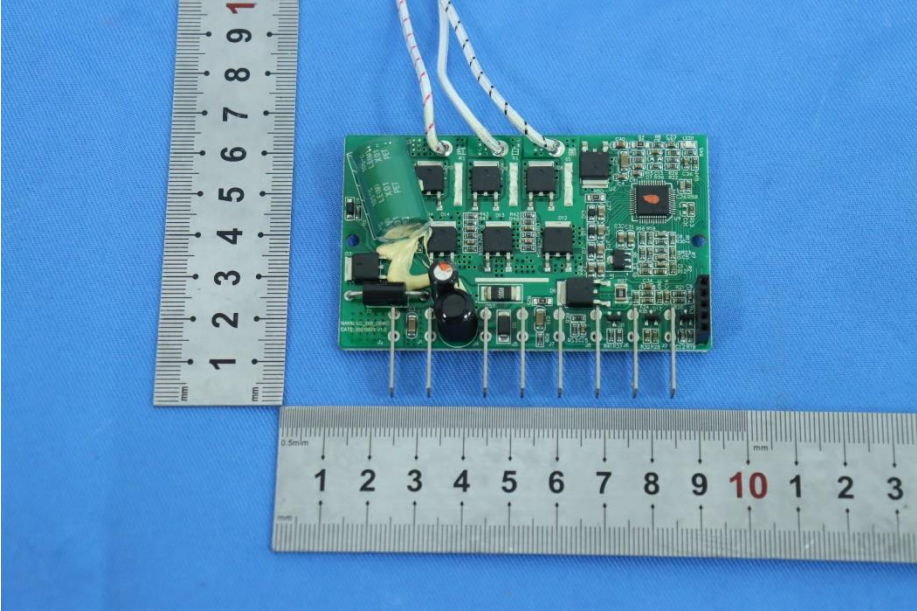


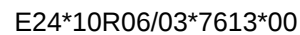
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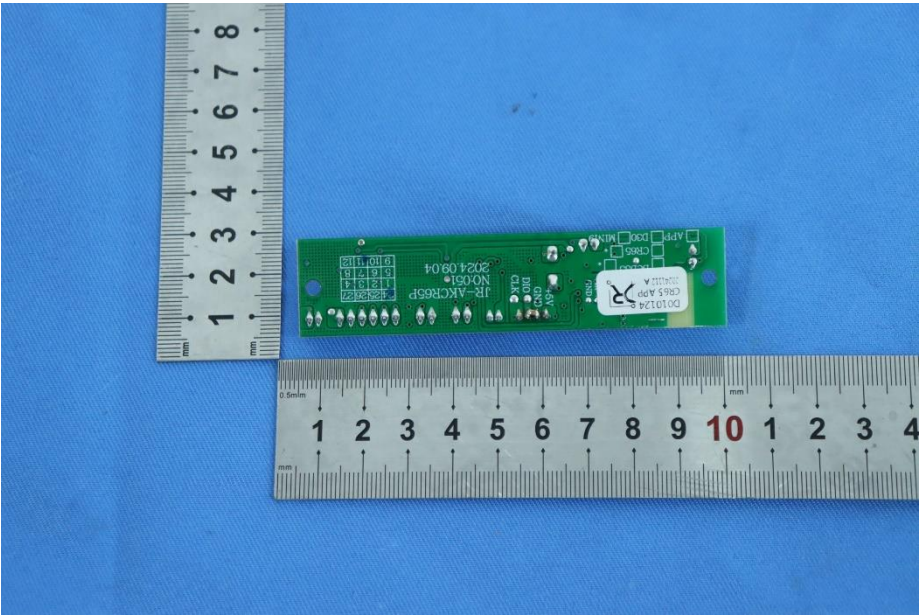
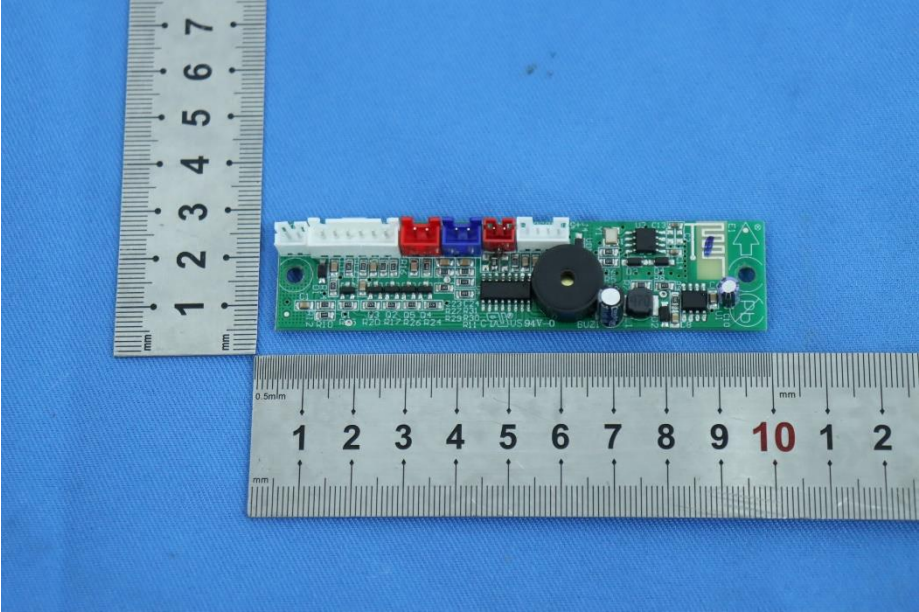
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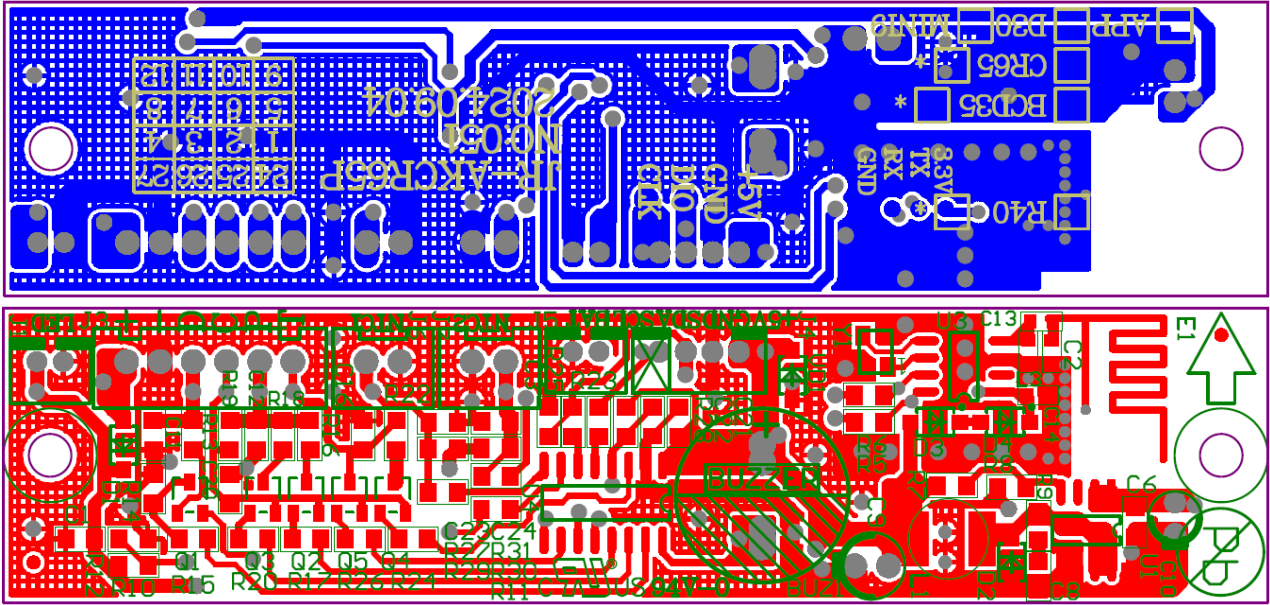


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		Information document No.: IF_CR90X_R10.06_00
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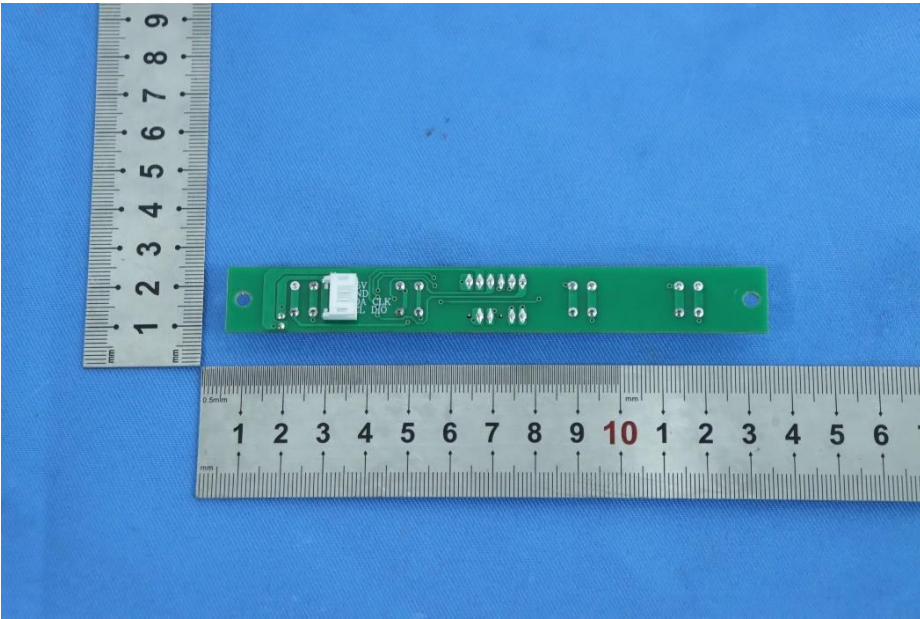
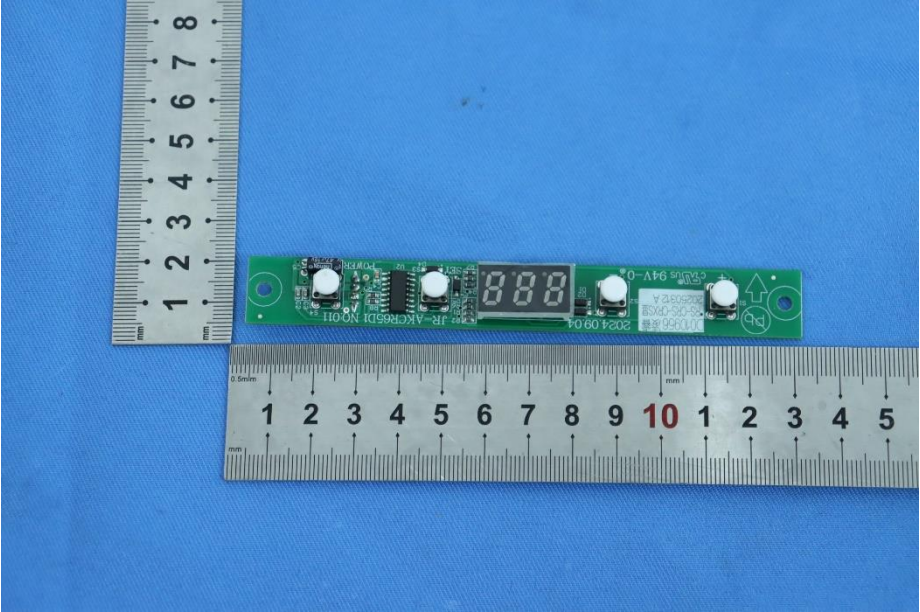
power board 1



 Alpicool® WE MAKE YOU FEEL COOL	Foshan Alpicool Holding Group Co., Ltd.	Type: CR90X
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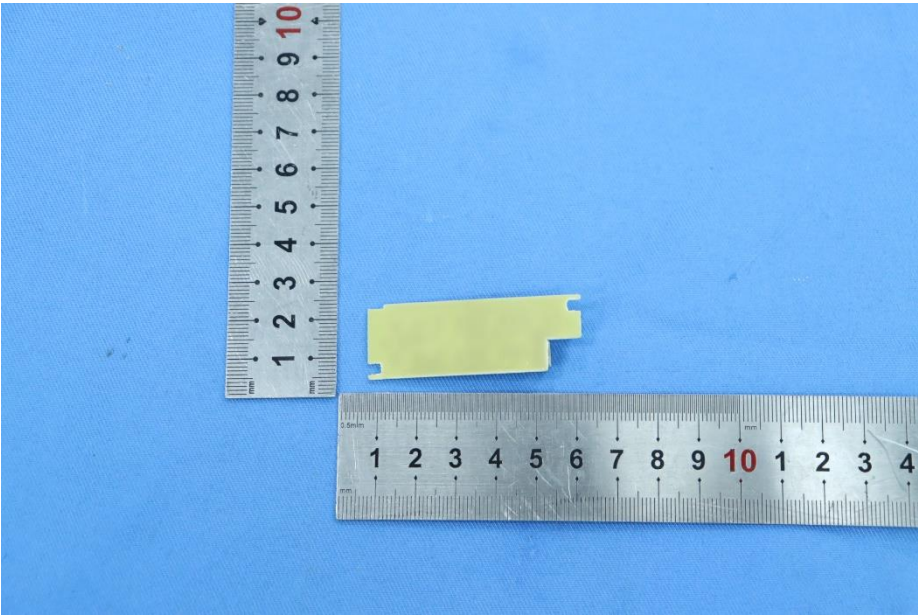
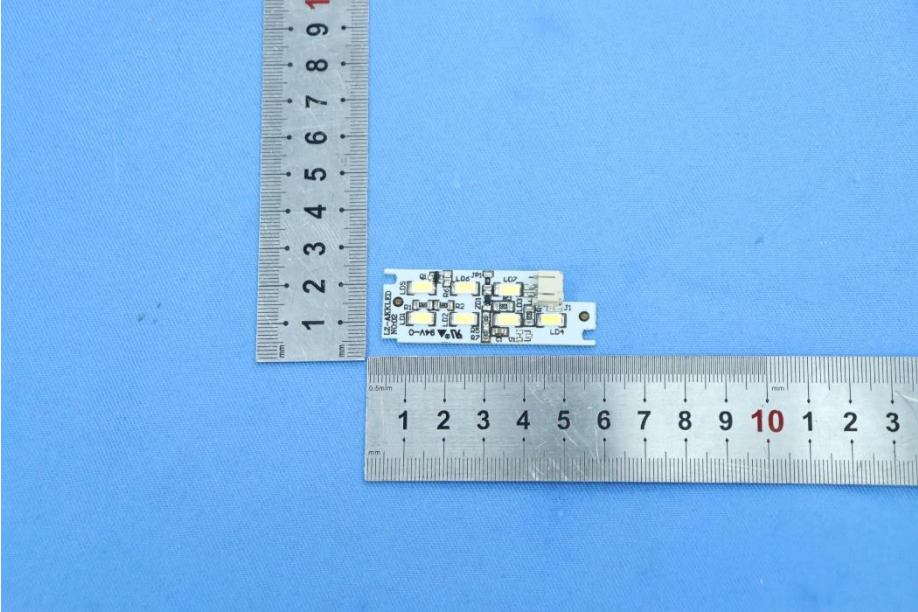


display board 1

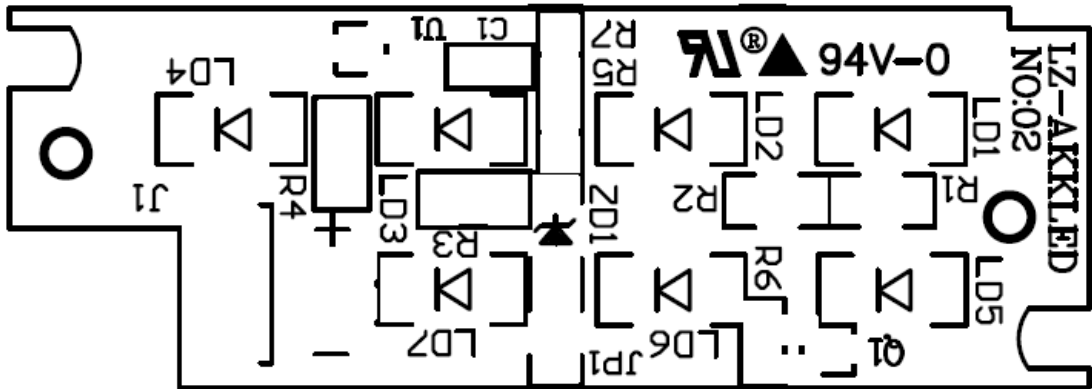
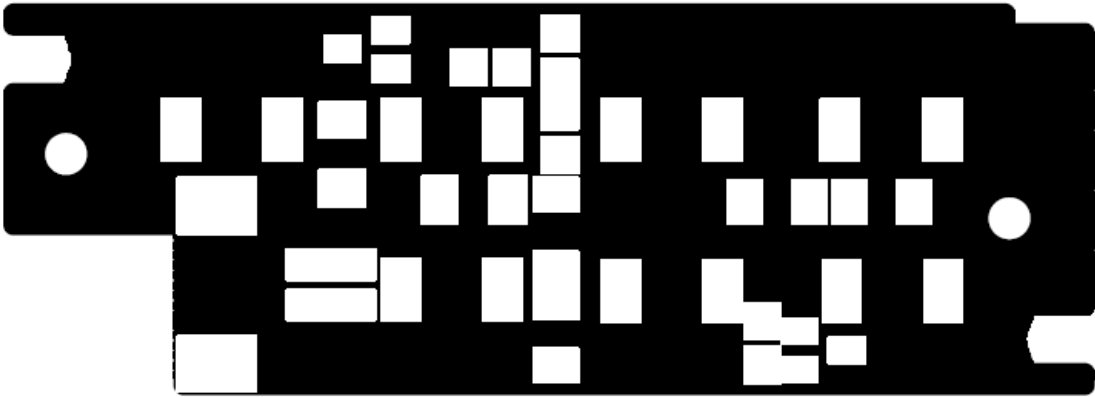
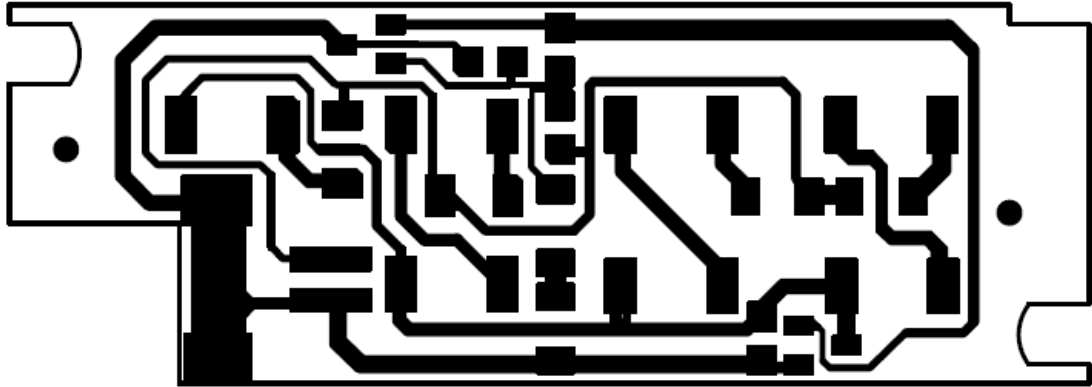


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LED 1

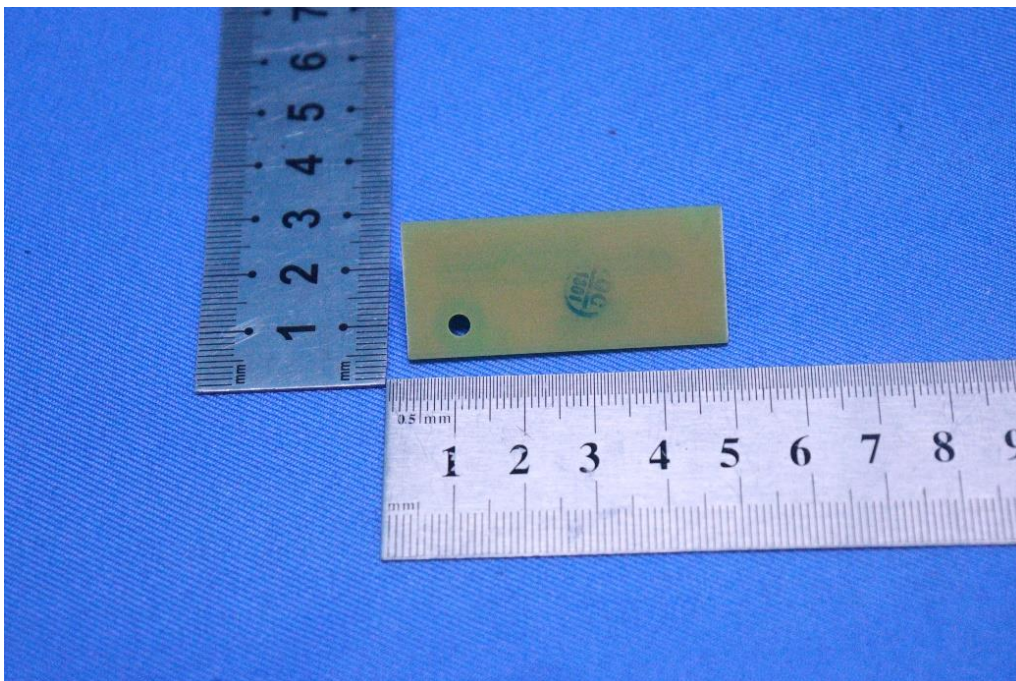
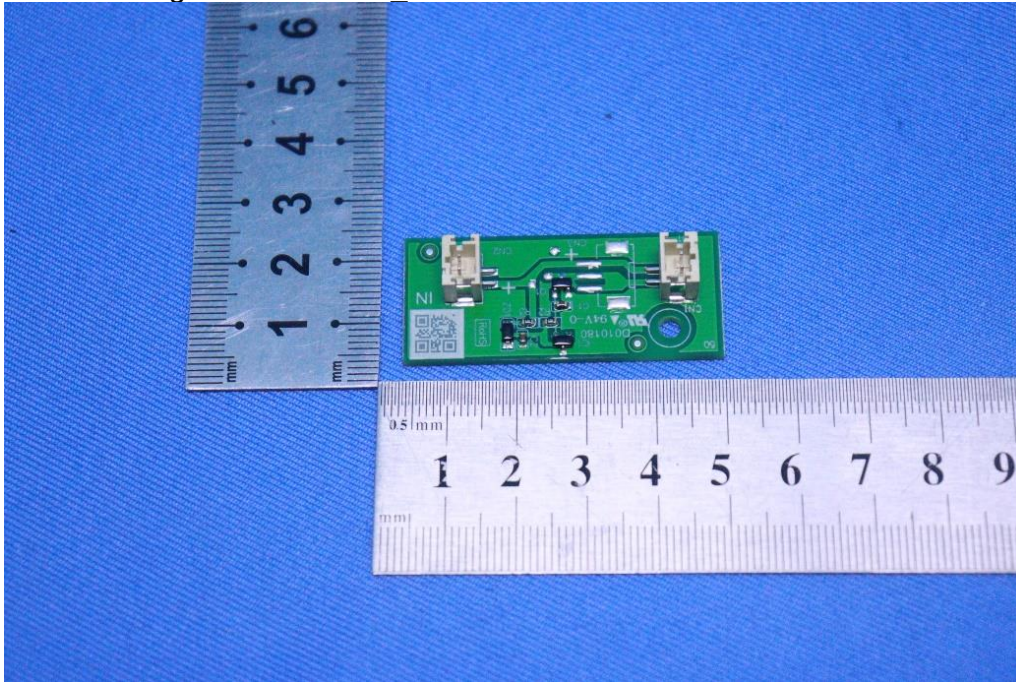


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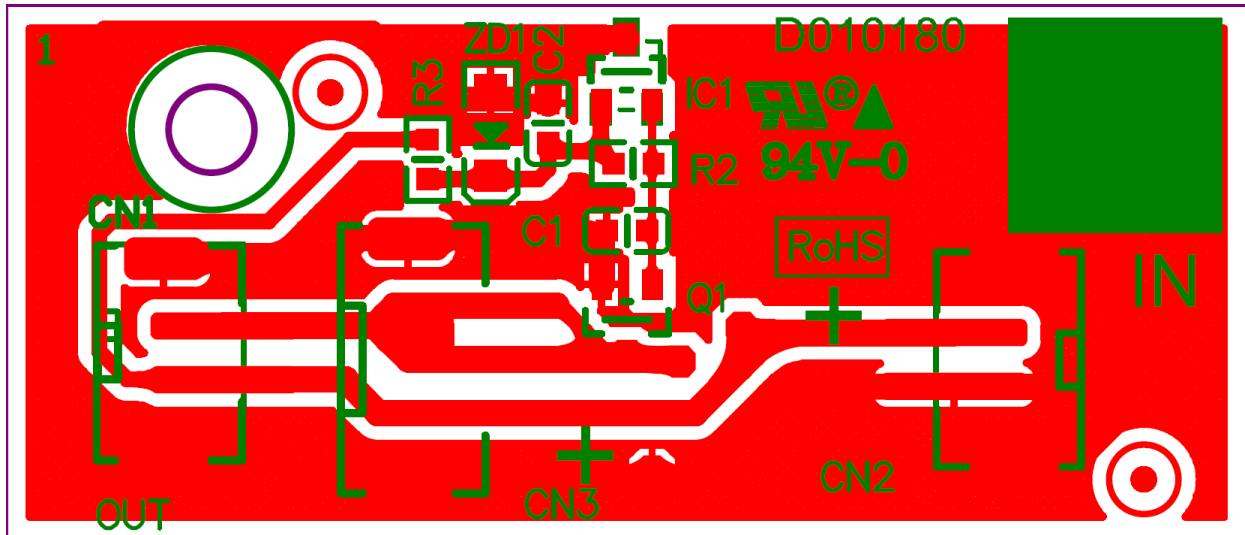


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Hall Effect Light Switch Board 1

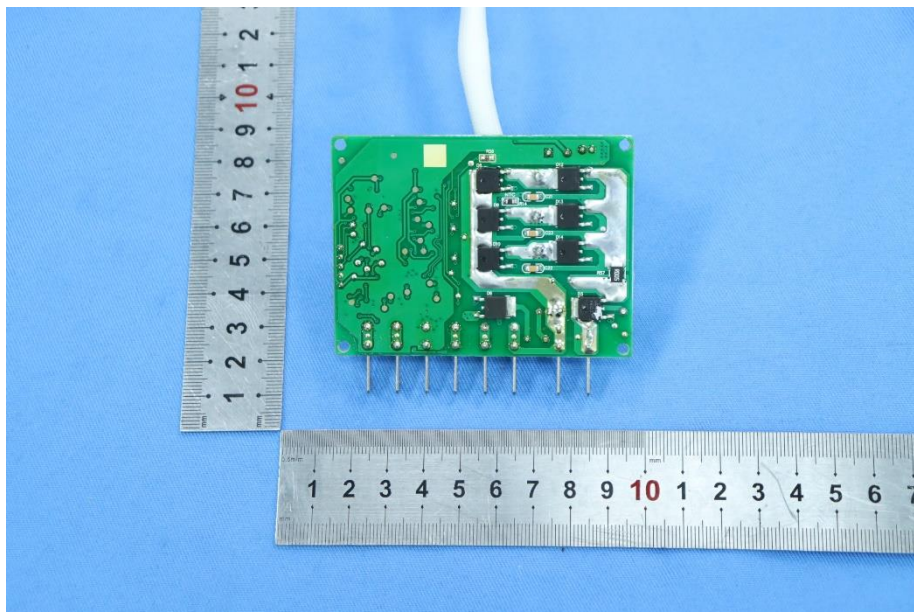
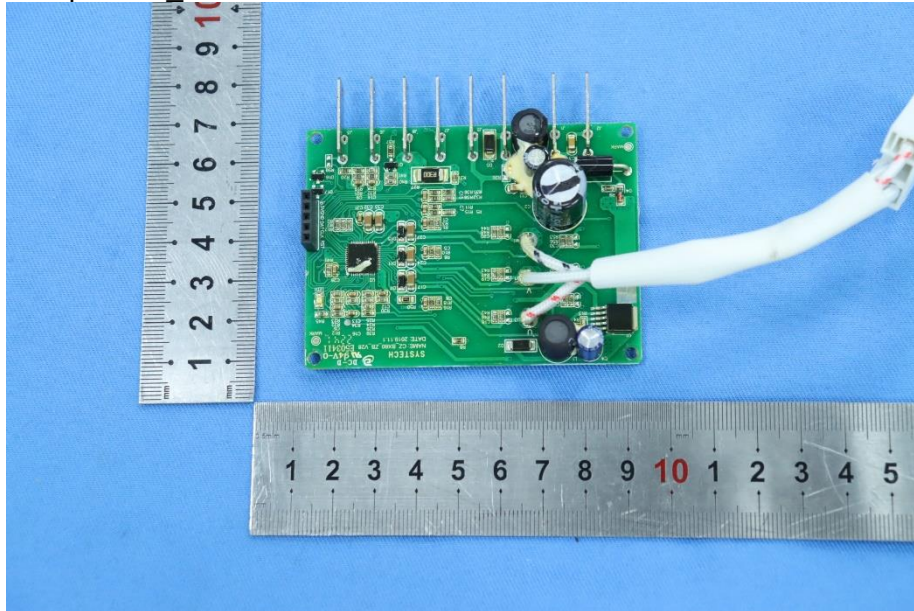


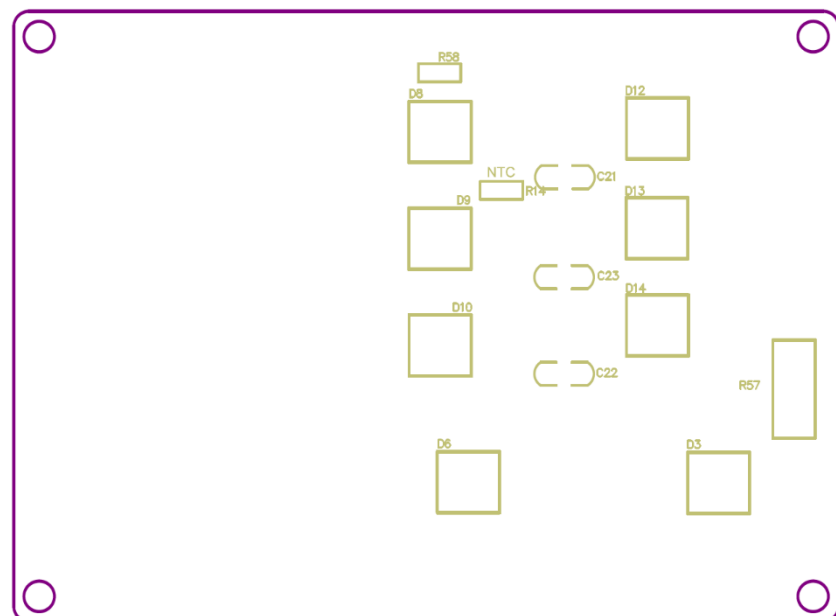
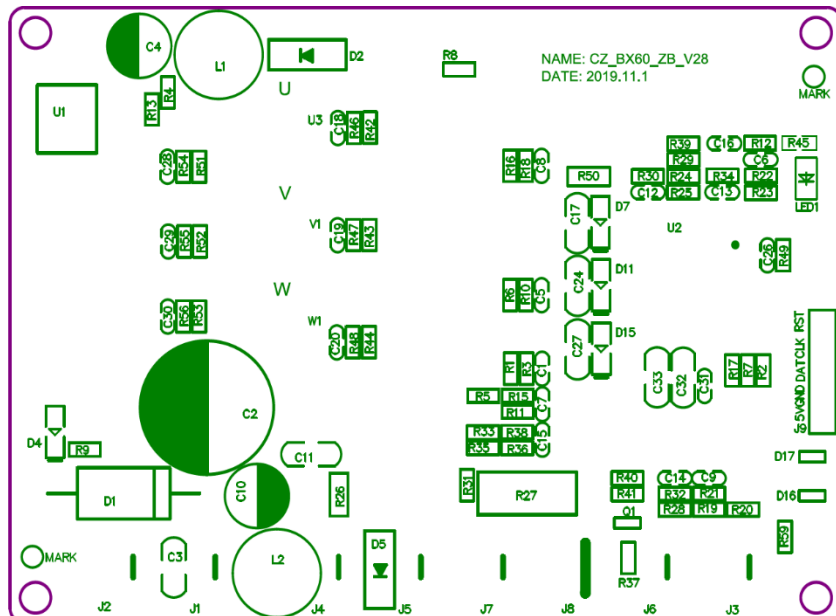
 Alpicool® WE MAKE YOU FEEL COOL	Foshan Alpicool Holding Group Co., Ltd.	Type: CR90X
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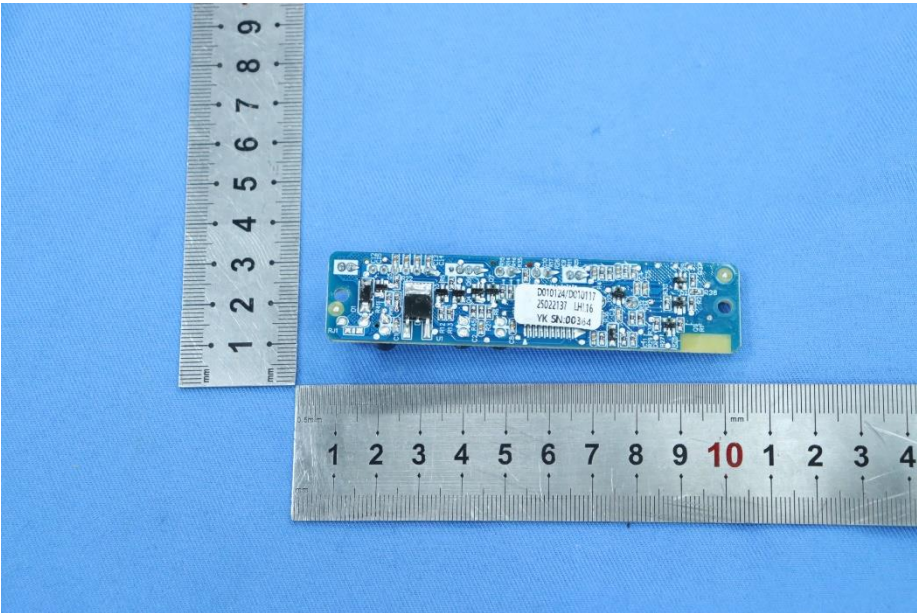
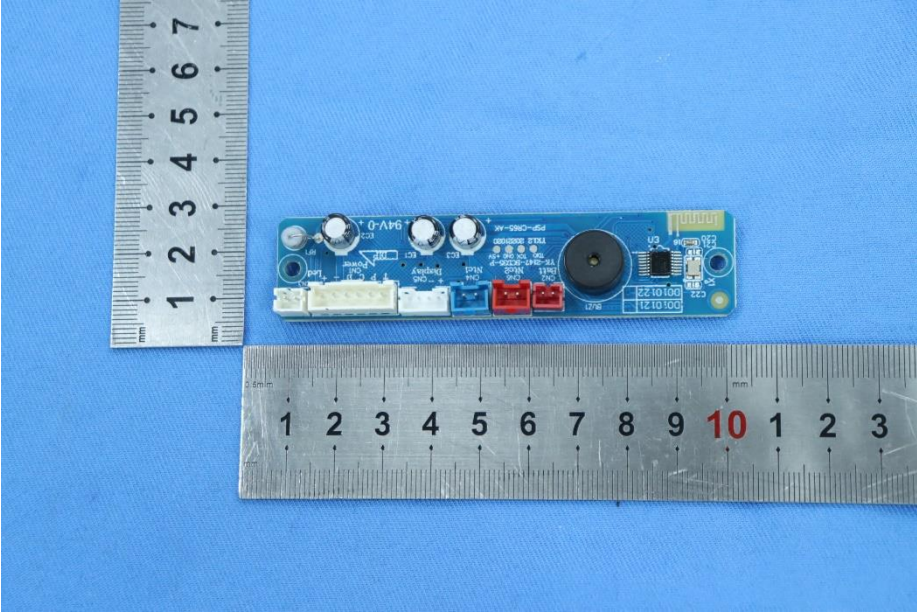
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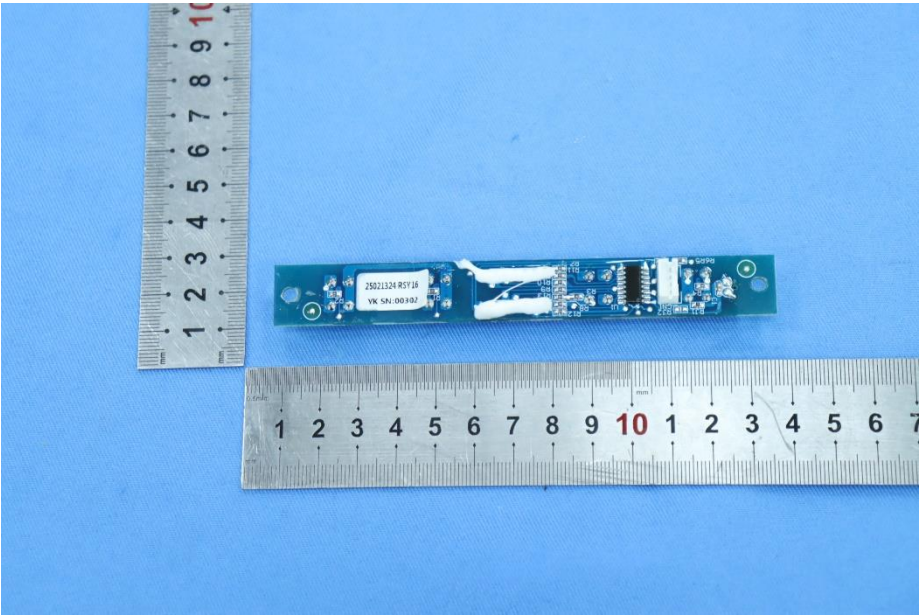
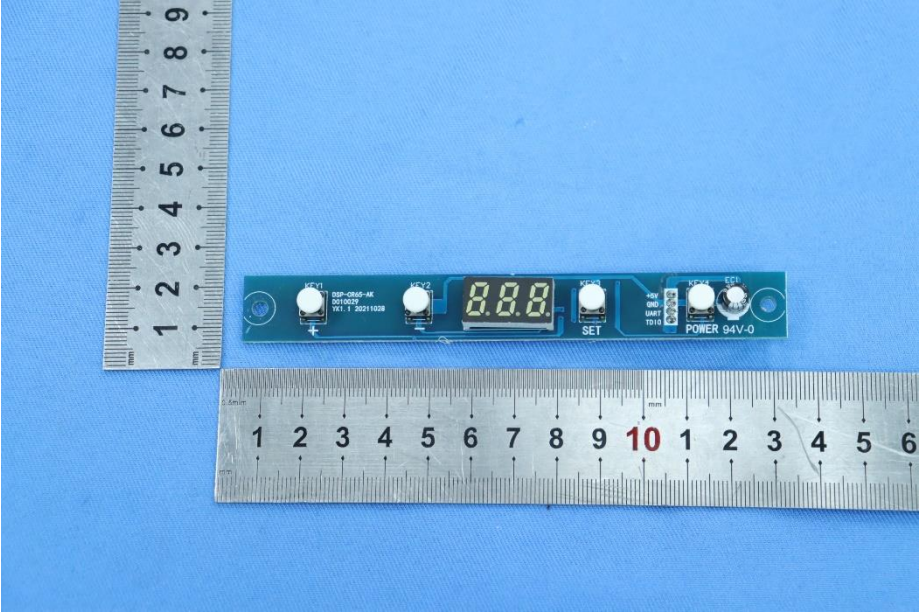
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power board 2

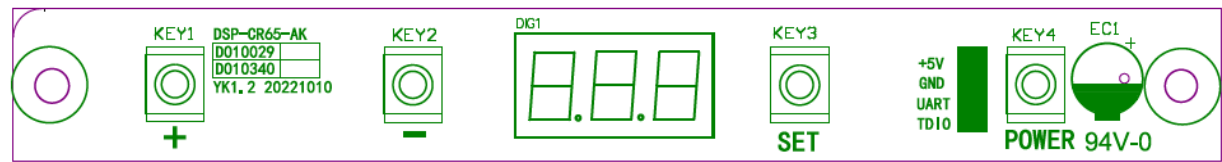


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display board 2

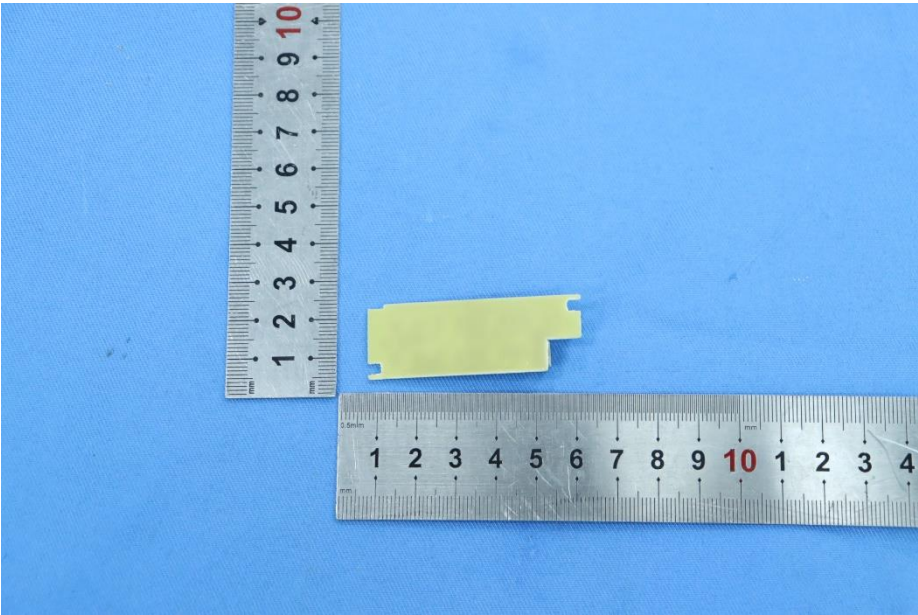
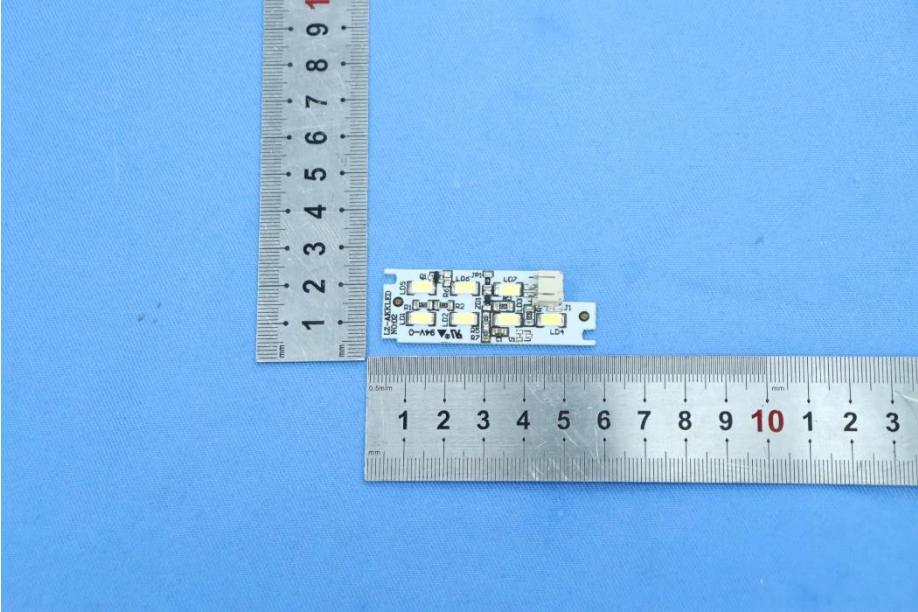


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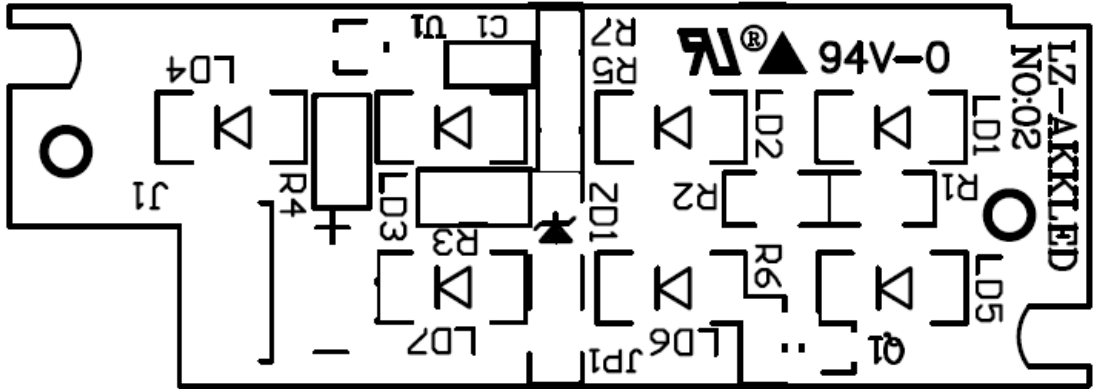
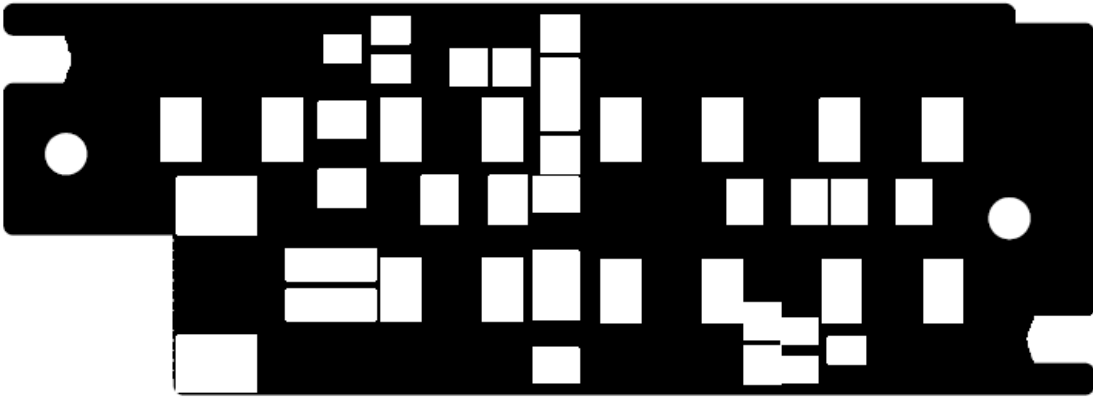
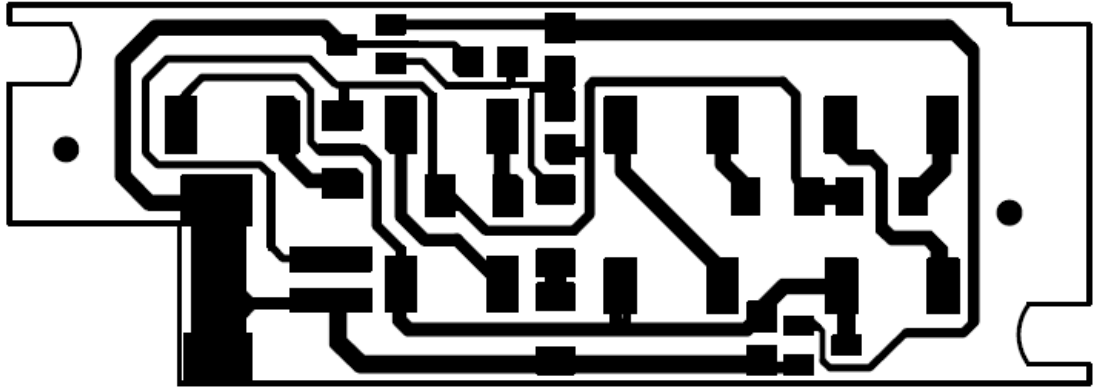


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LED 1

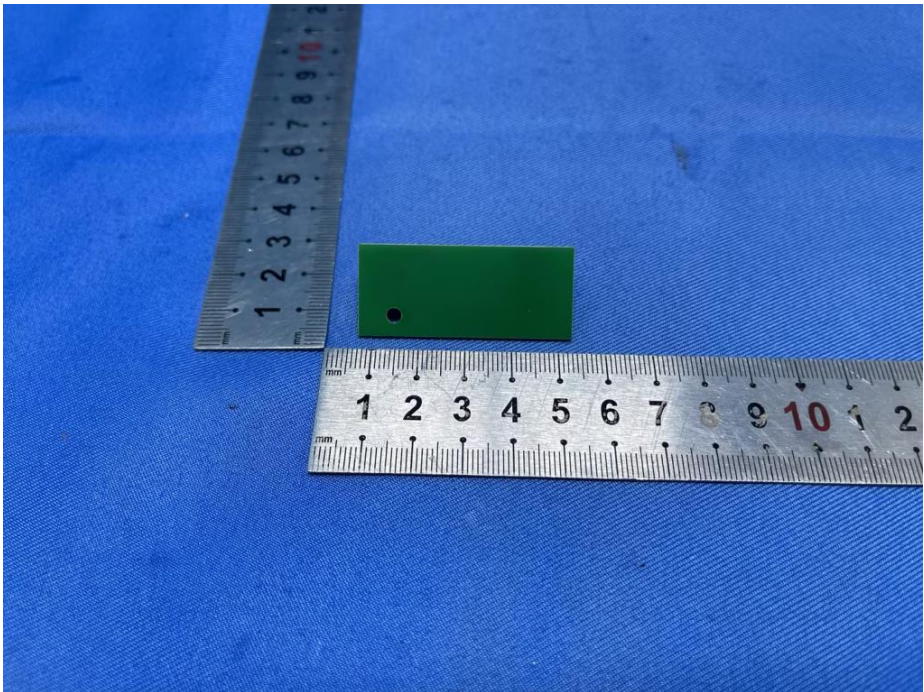
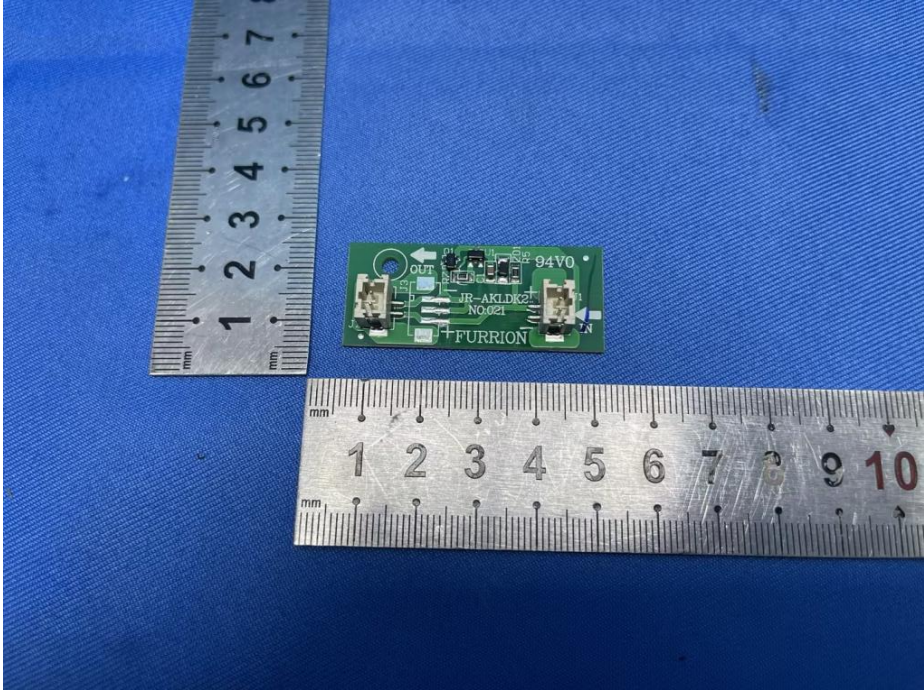


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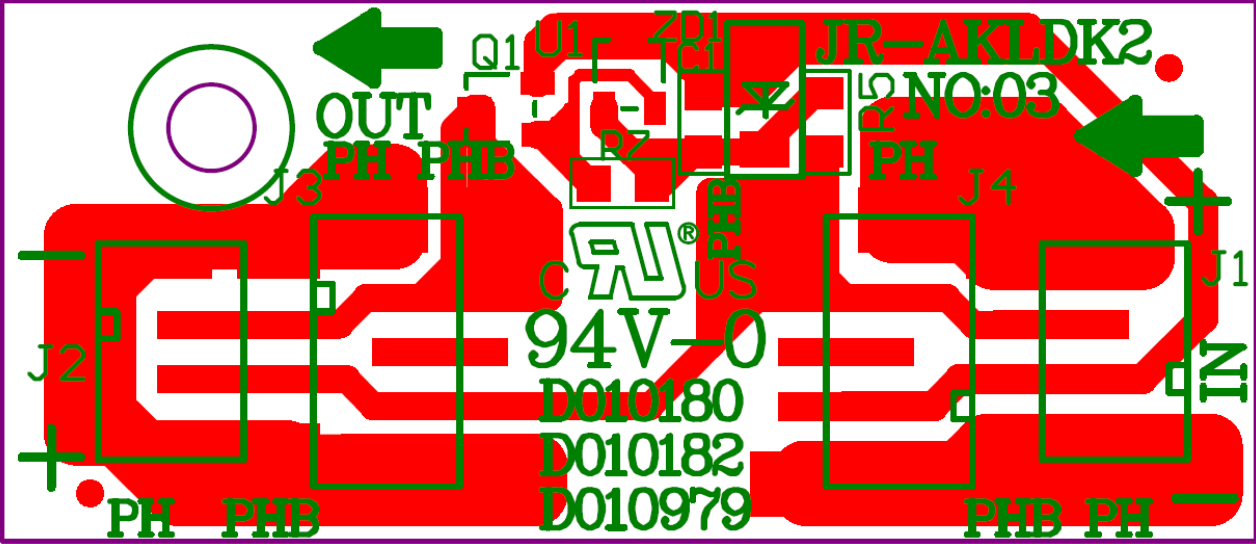


 <i>WE MAKE YOU FEEL COOL</i>	Foshan Alpicool Holding Group Co., Ltd.	Type: CR90X
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Hall Effect Light Switch Board_2

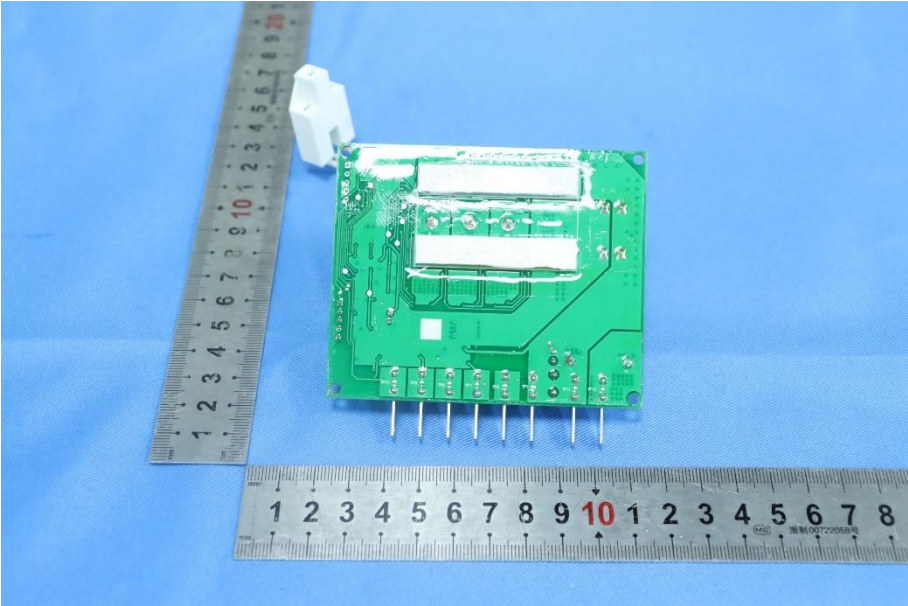
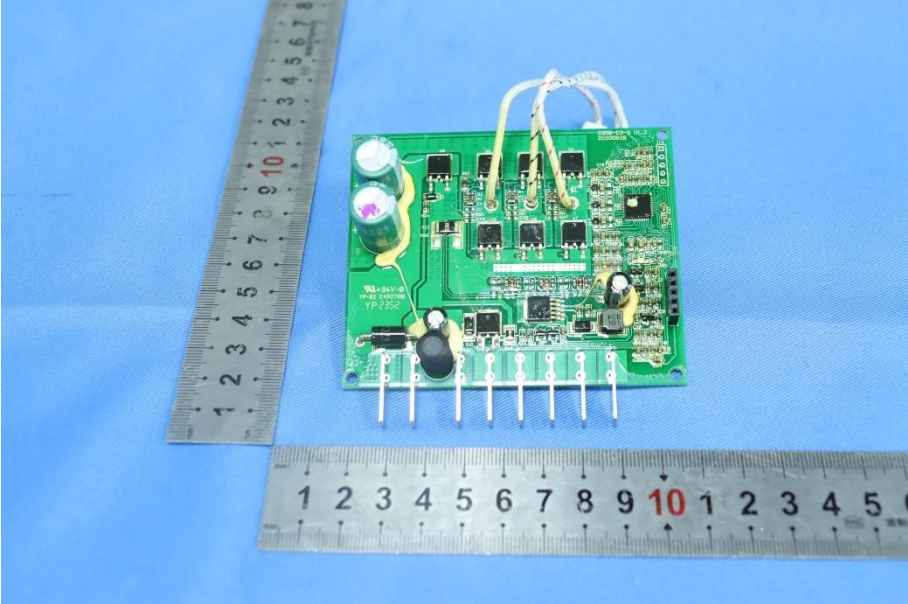


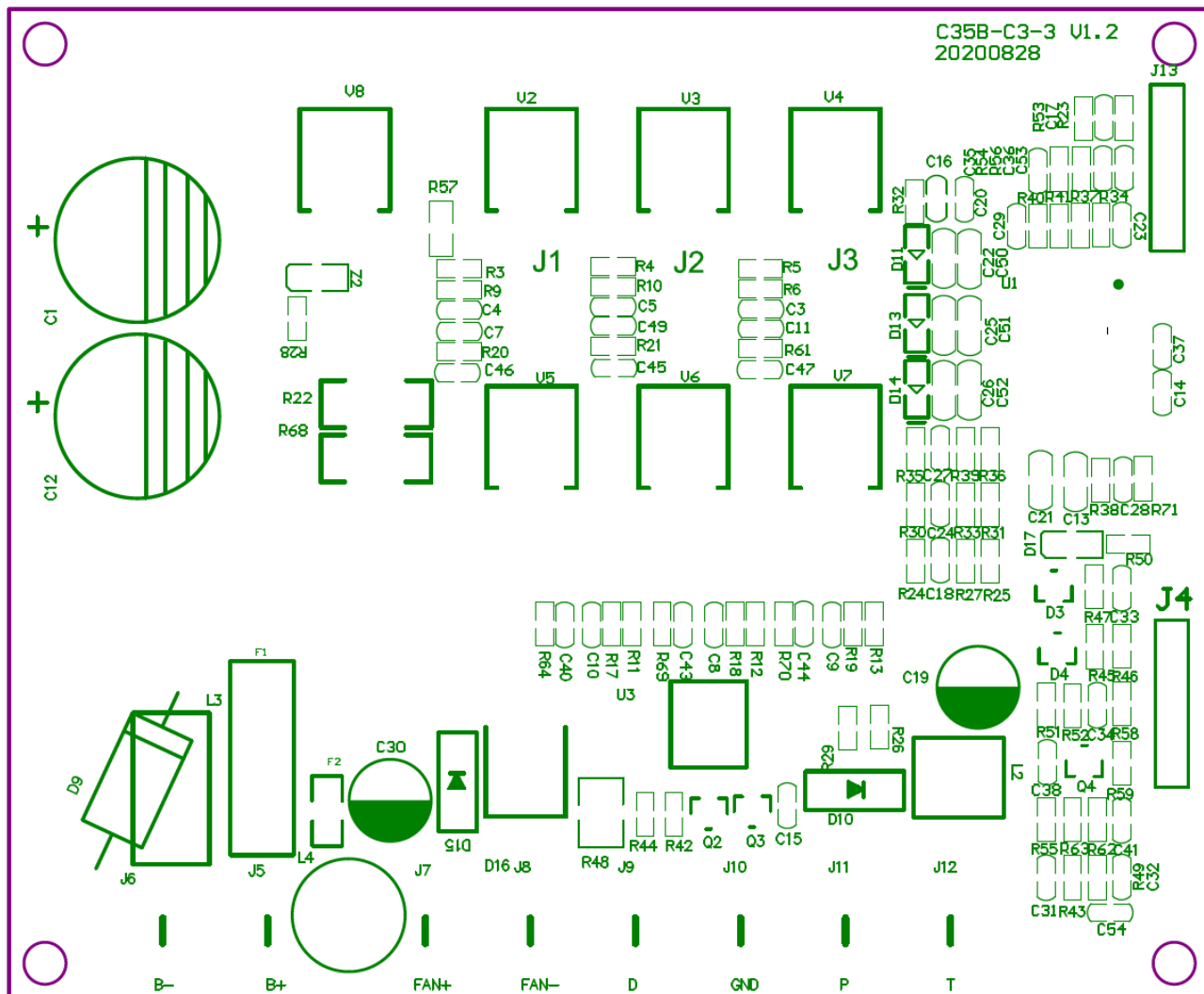
 Alpicool® WE MAKE YOU FEEL COOL	Foshan Alpicool Holding Group Co., Ltd.	Type: CR90X Information document No.: IF_CR90X_R10.06_00
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	Foshan Alpicool Holding Group Co., Ltd.	Type: CR90X Information document No.: IF_CR90X_R10.06_00
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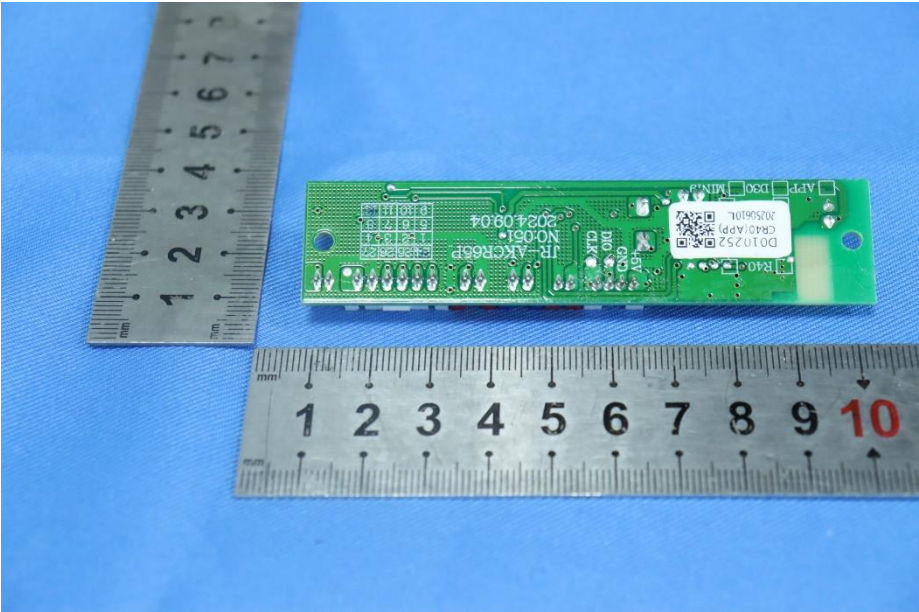
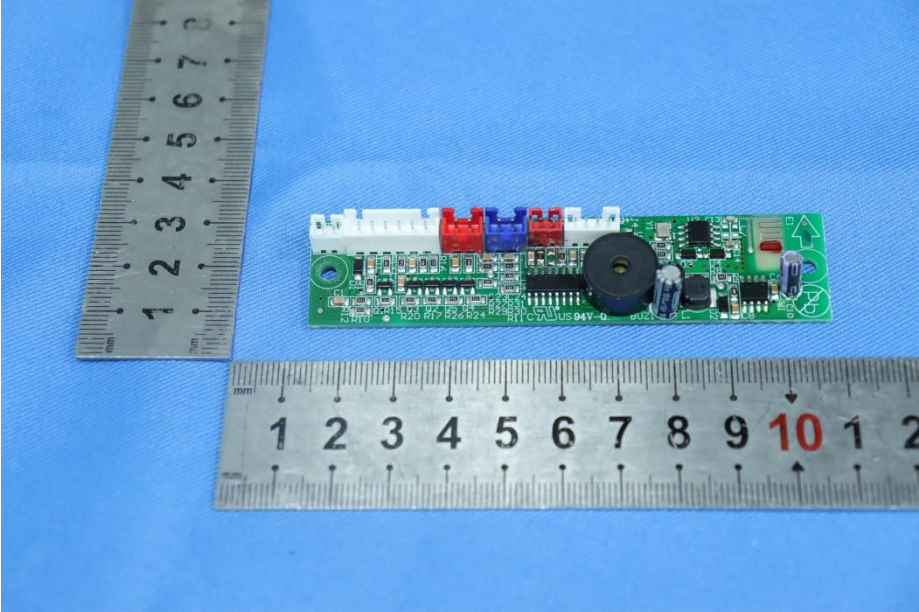
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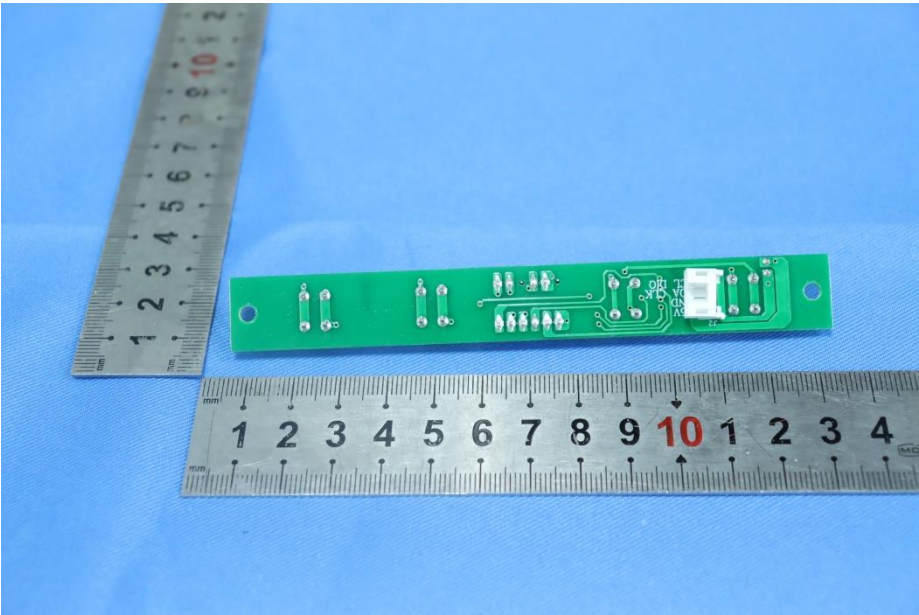
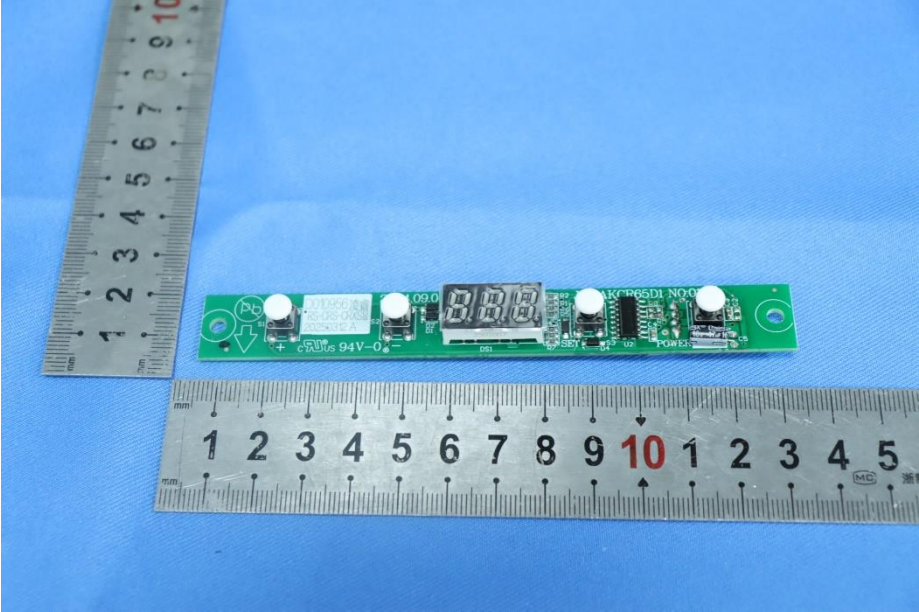
 Alpicool® <i>WE MAKE YOU FEEL COOL</i>	Foshan Alpicool Holding Group Co., Ltd.	Type: CR90X
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power board 5

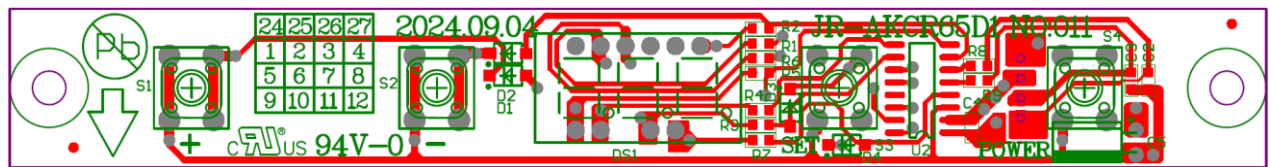
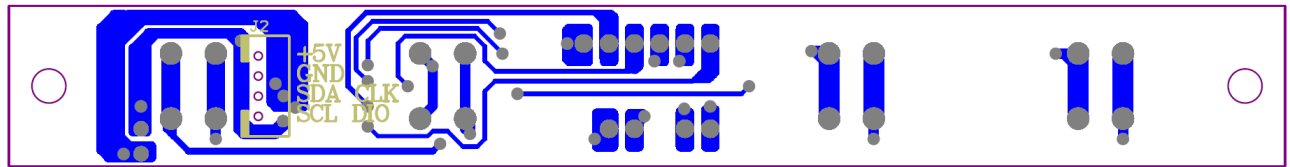


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display board 5

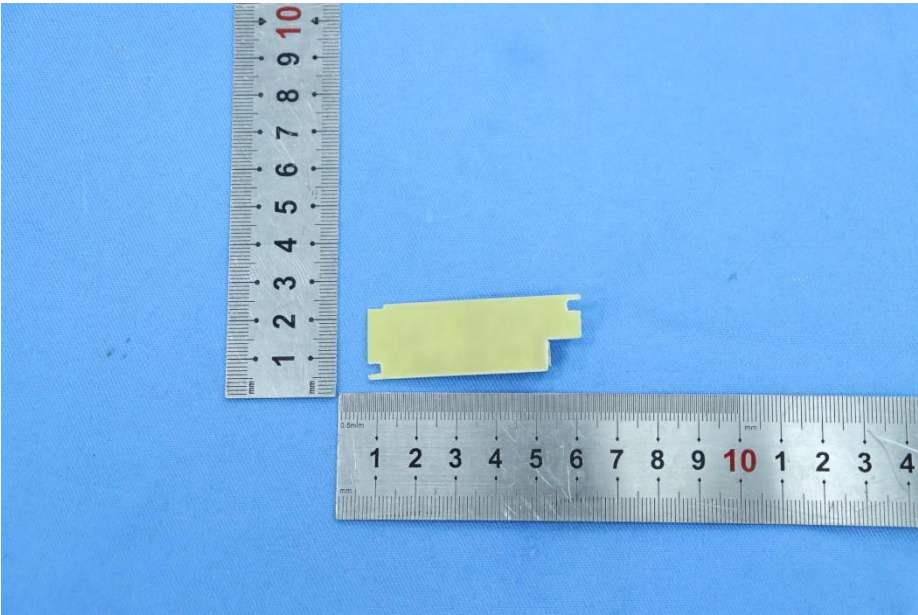
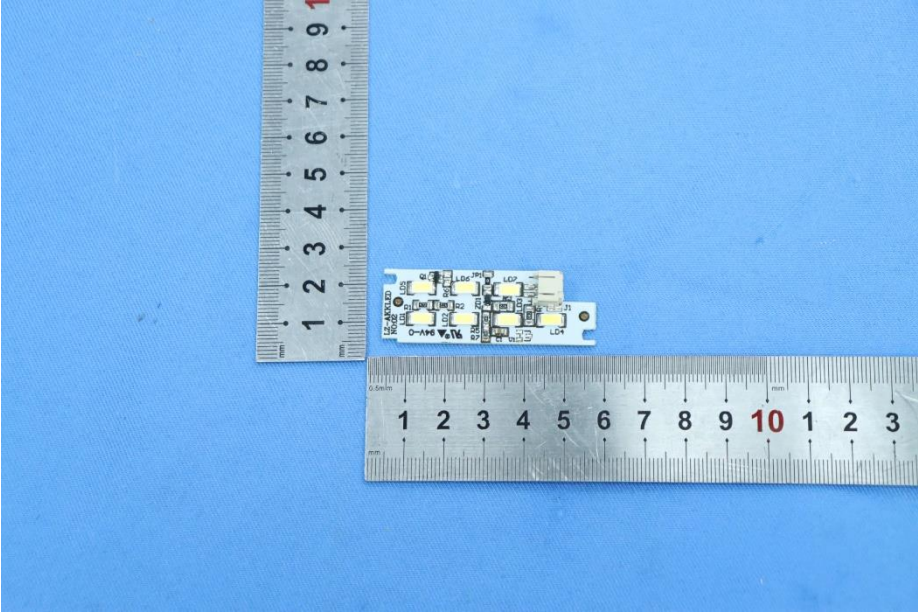


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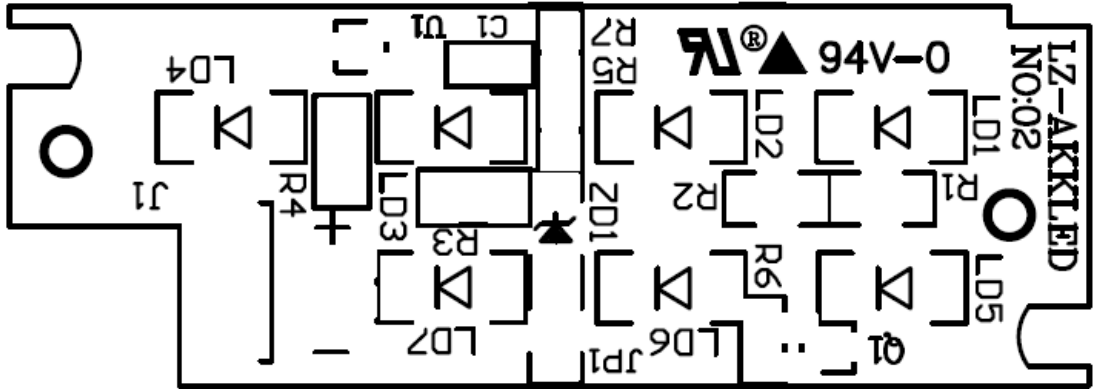
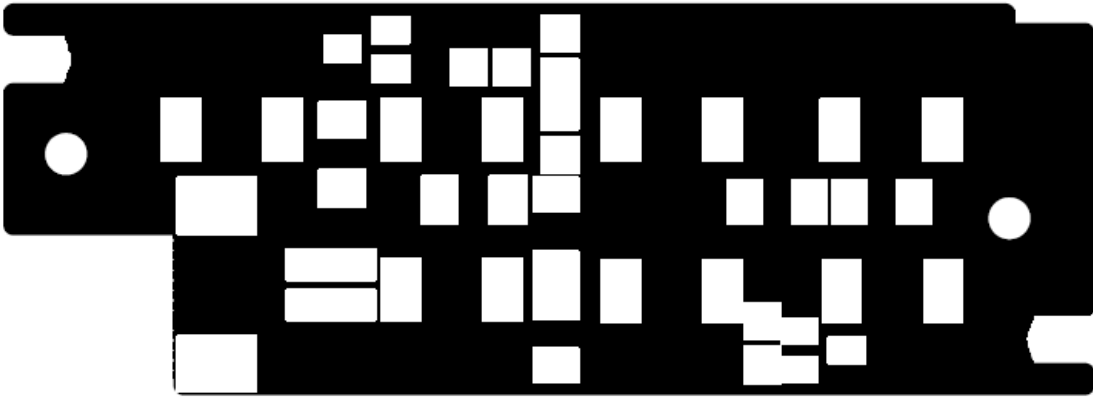
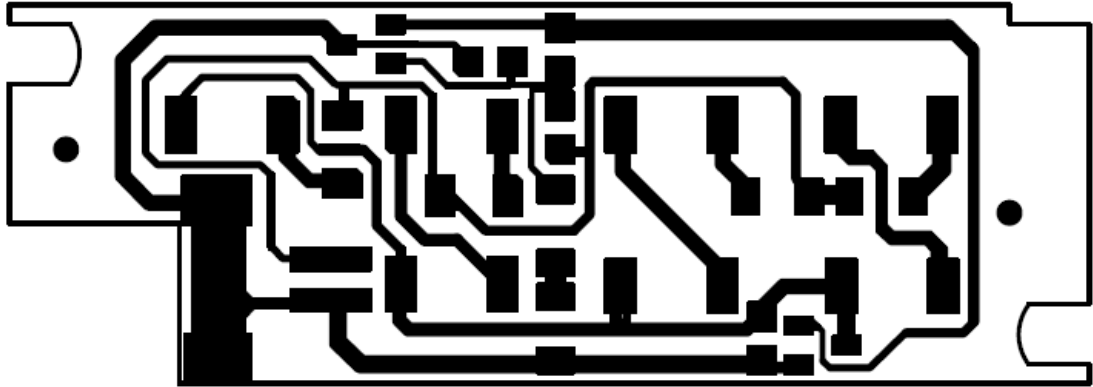


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LED 1

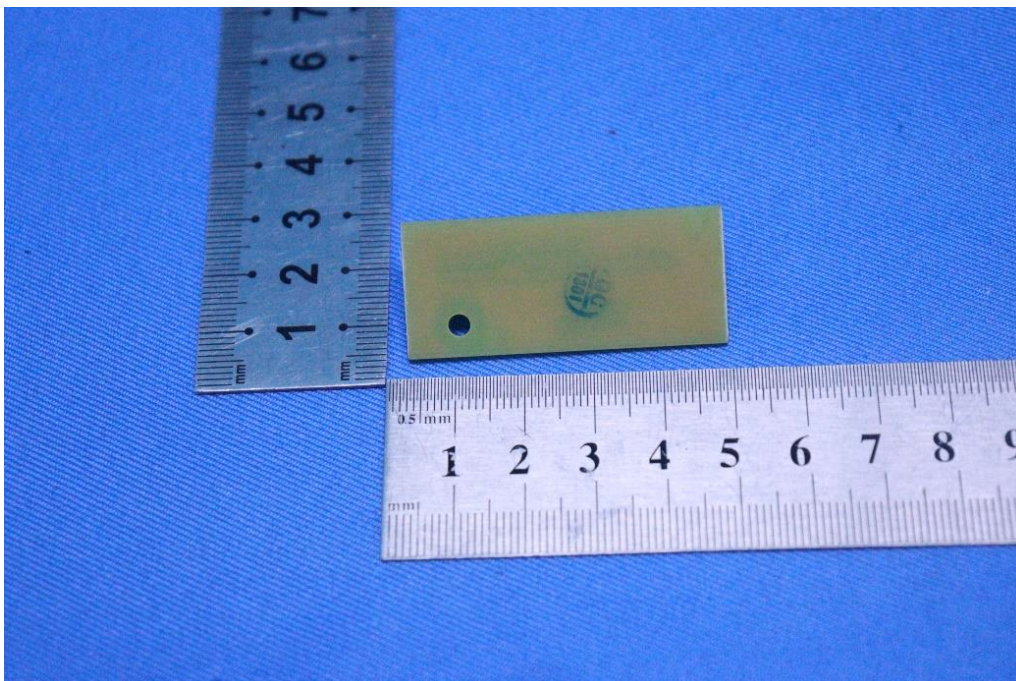
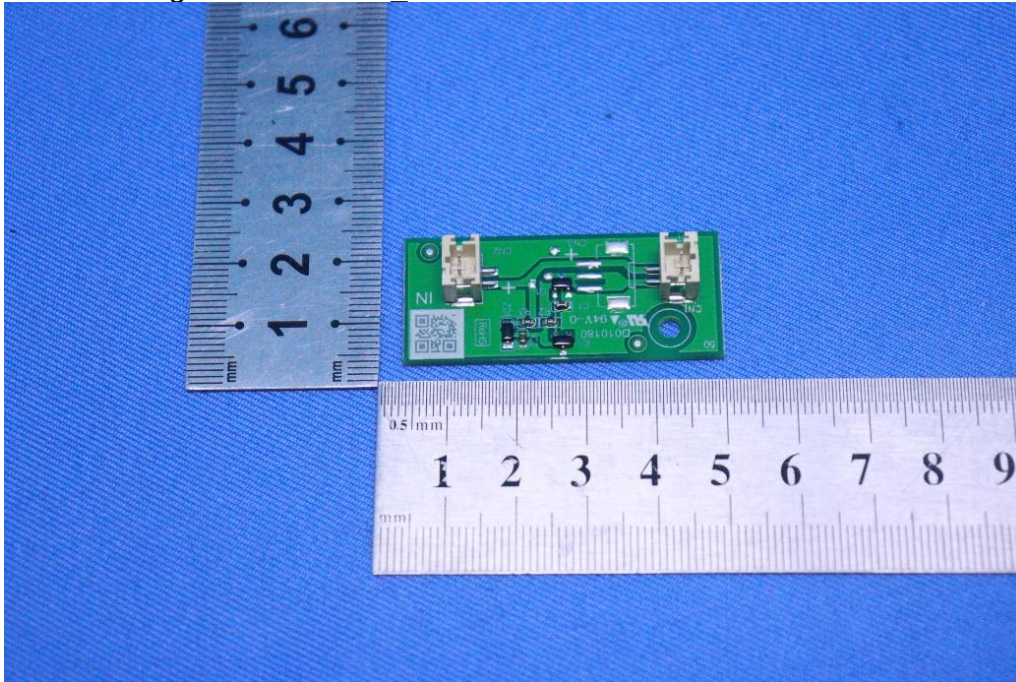


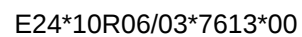
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Hall Effect Light Switch Board 1

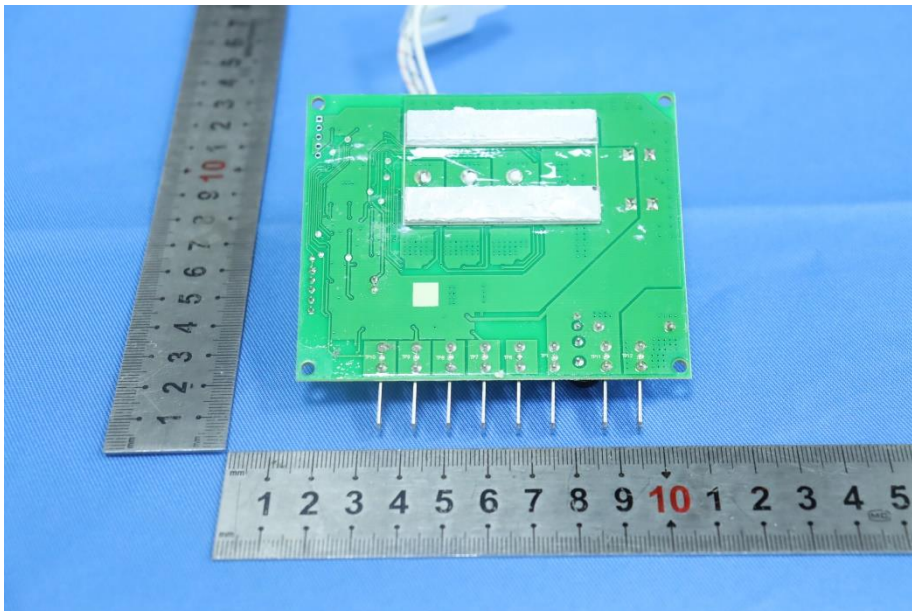
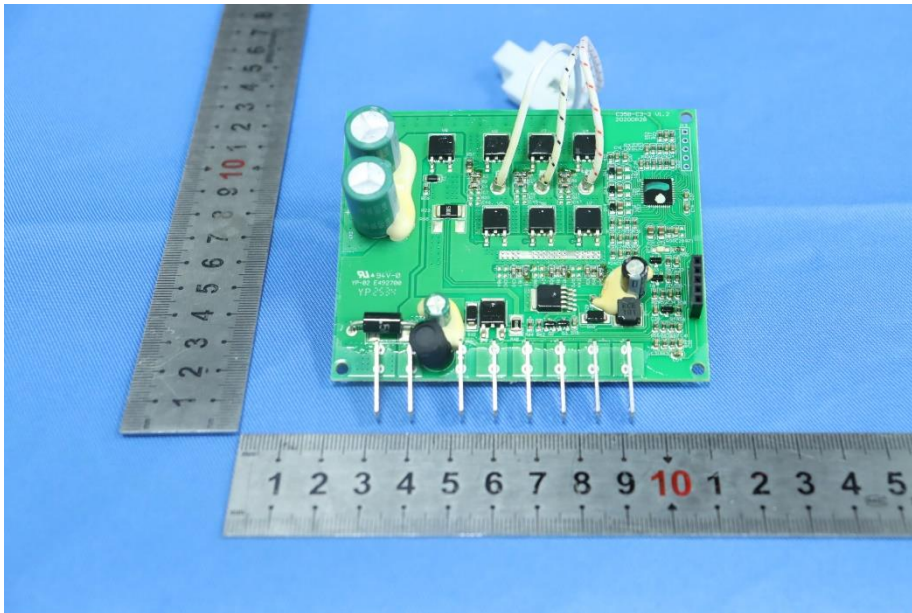


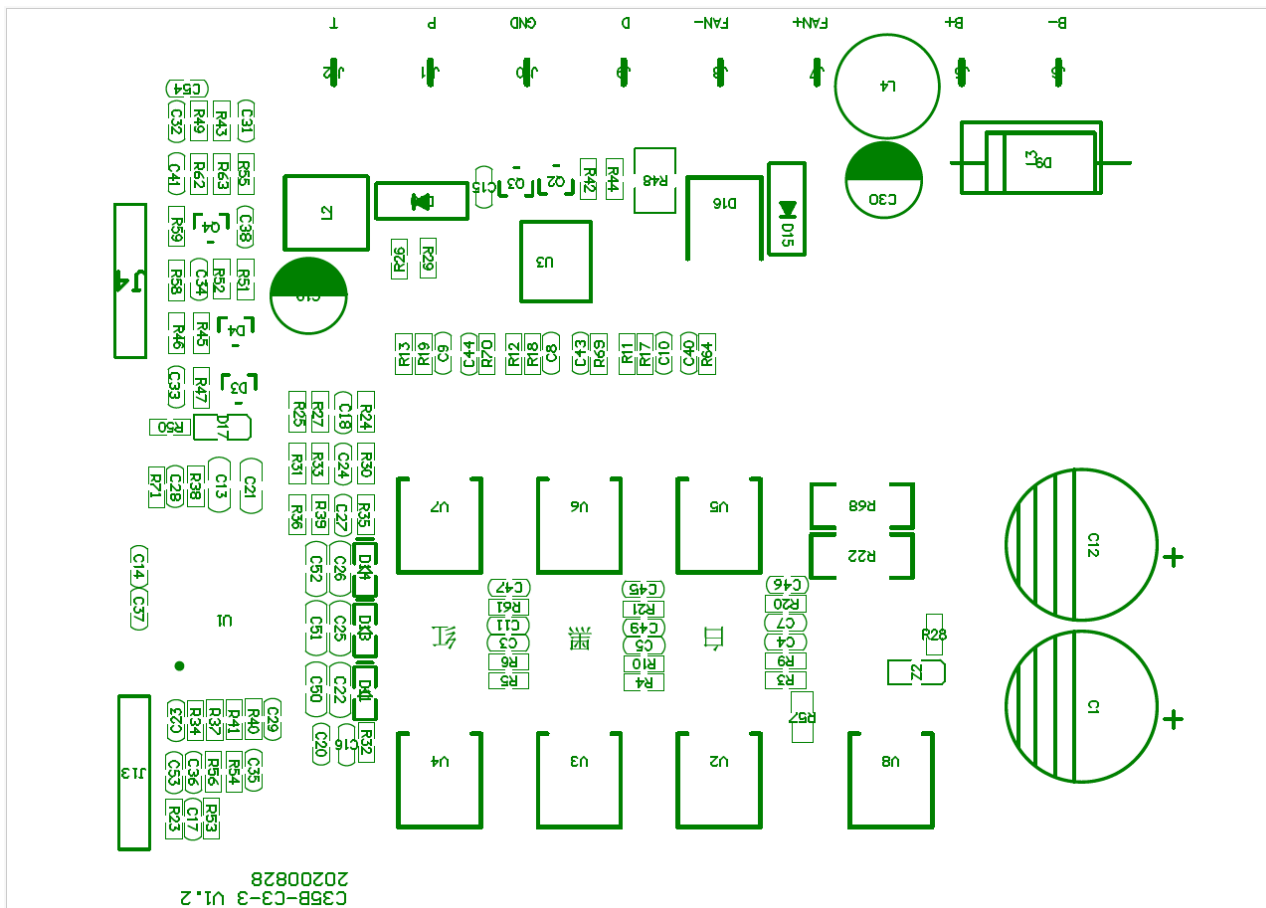


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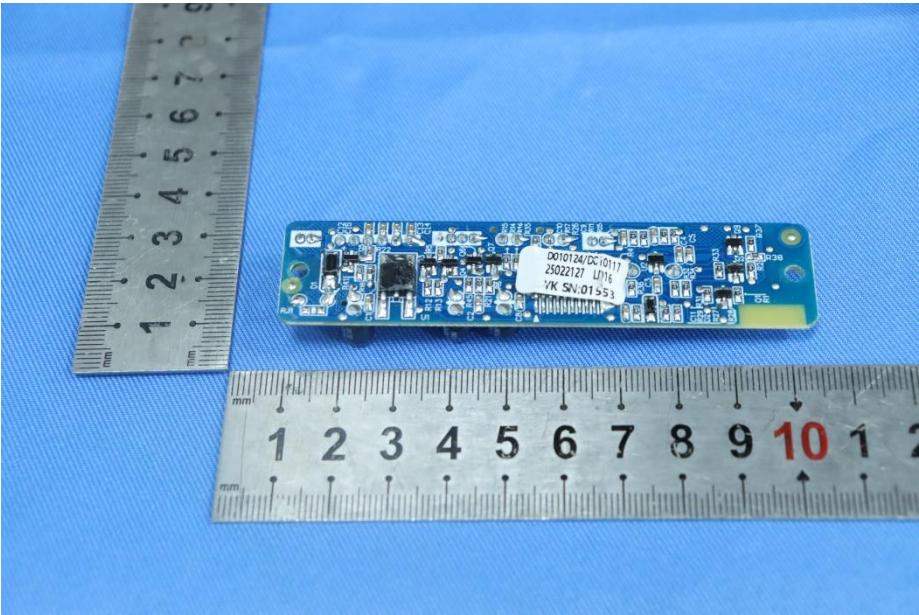
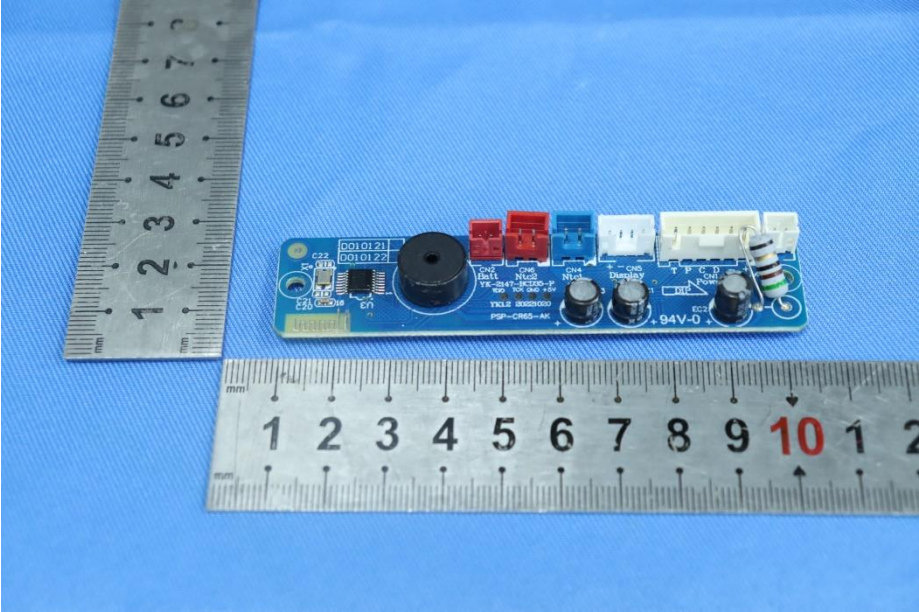
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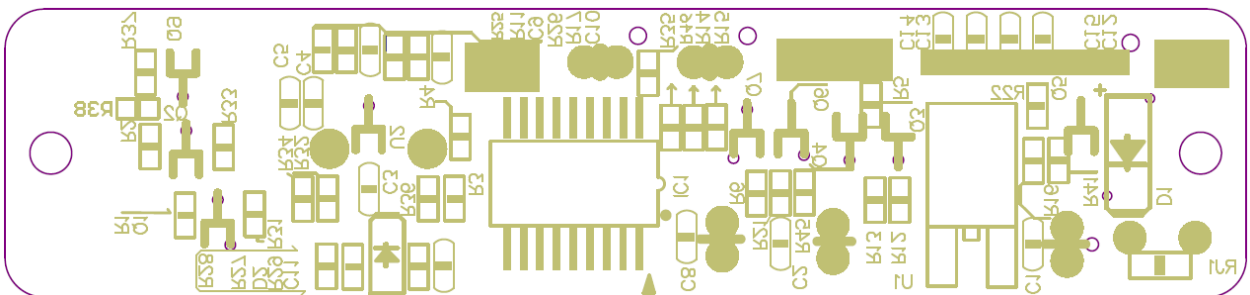
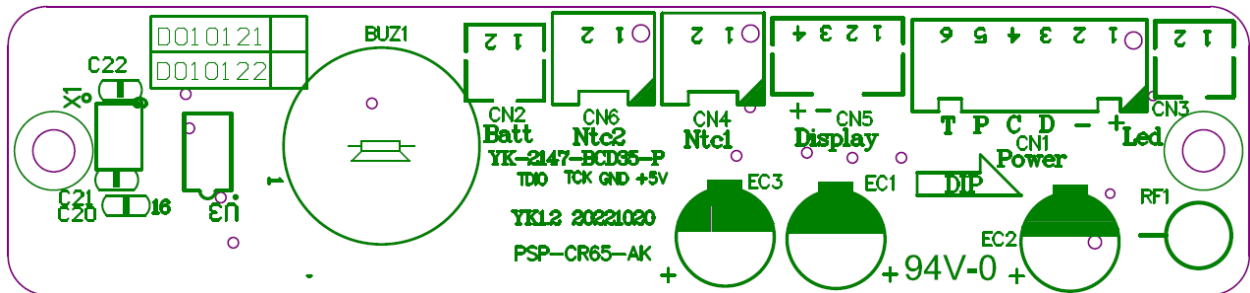




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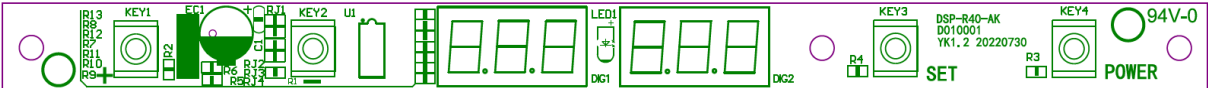
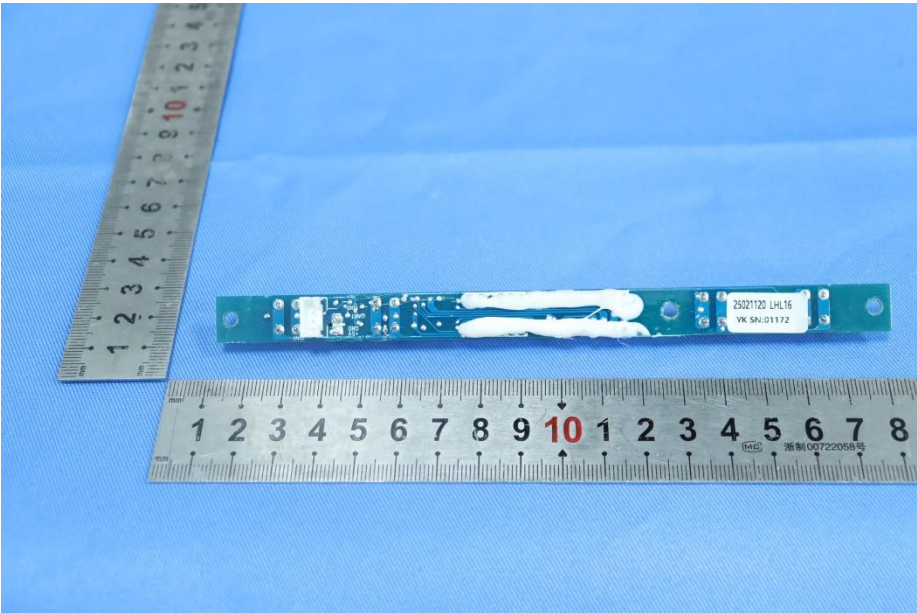
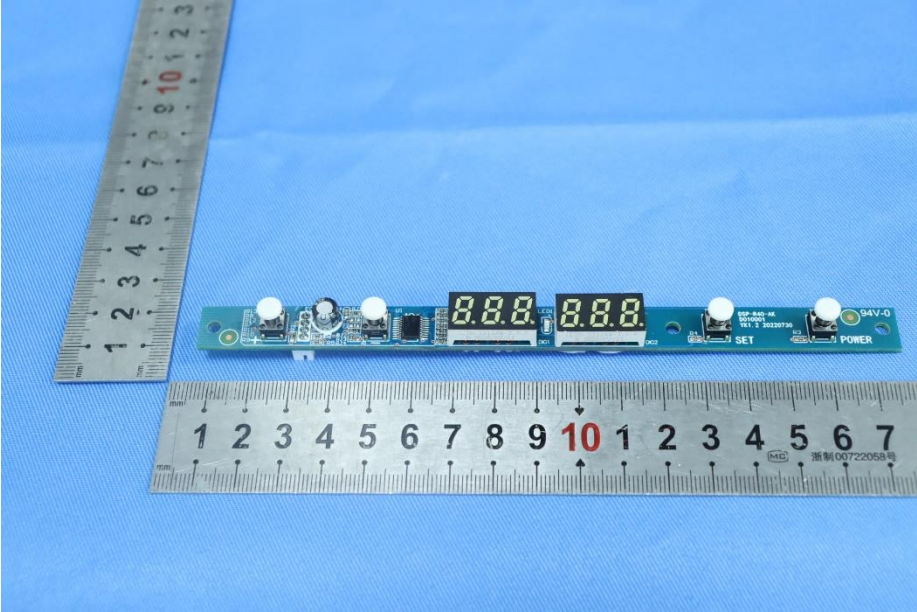
power board 4





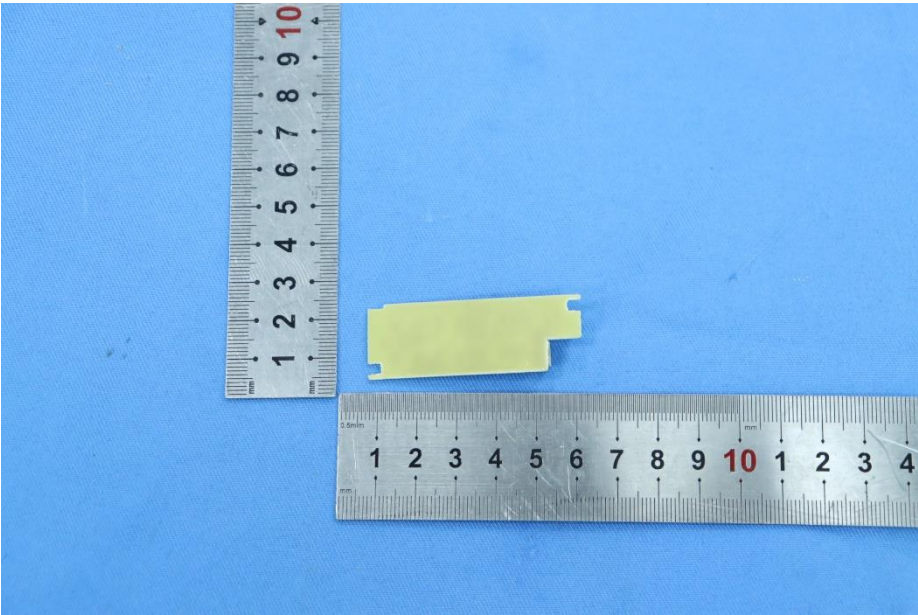
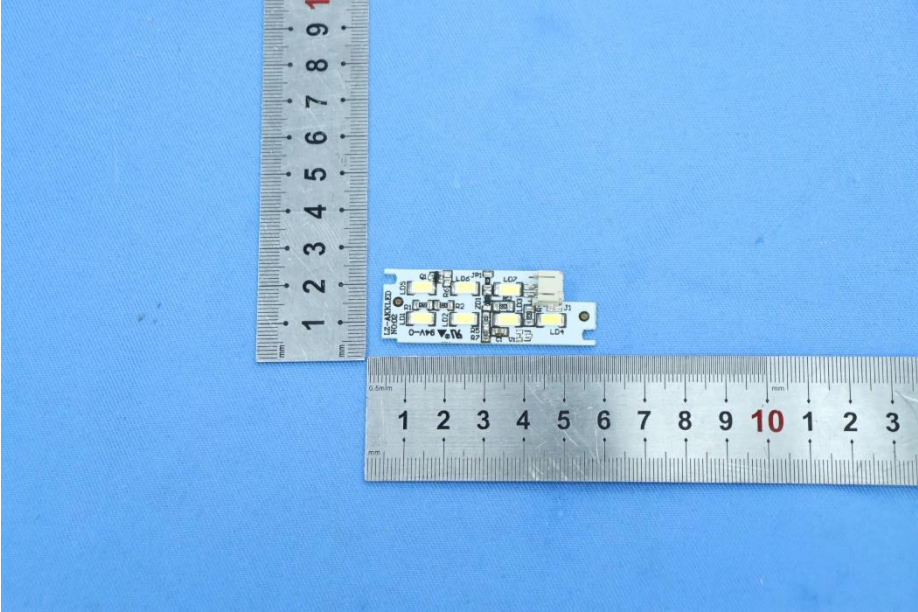
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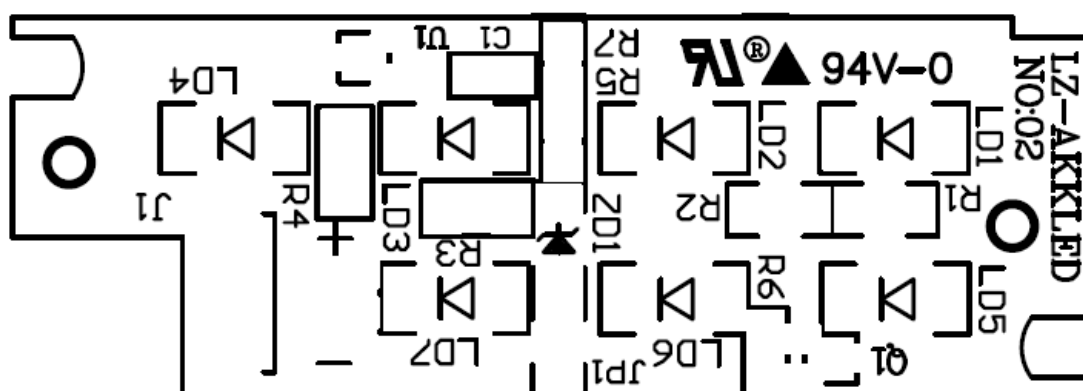
display board 4



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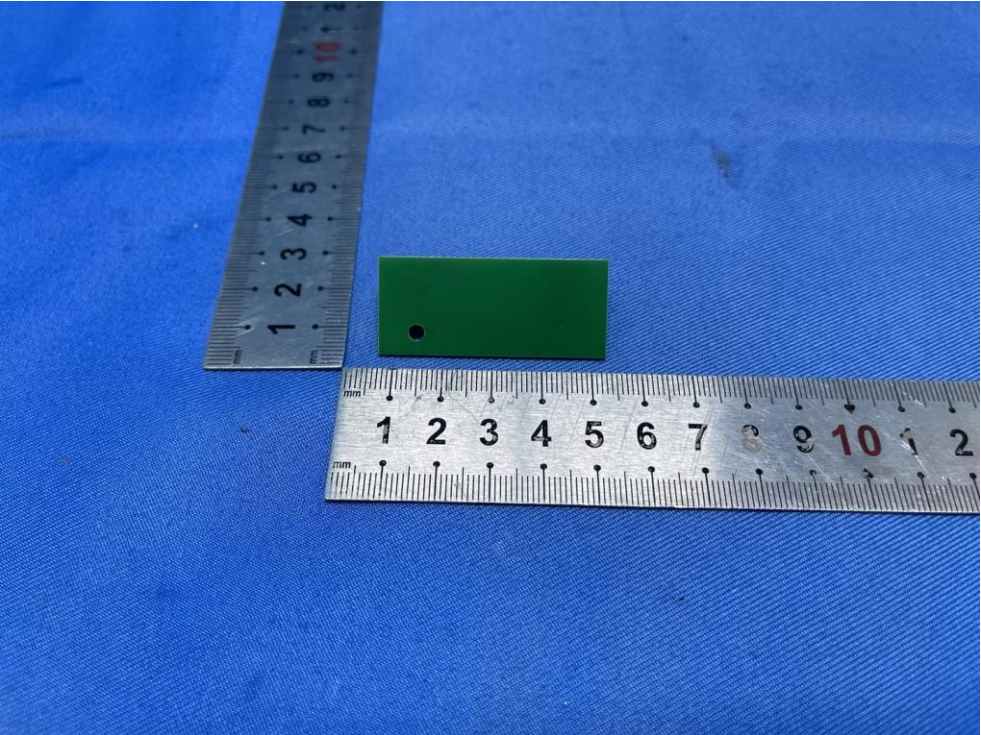
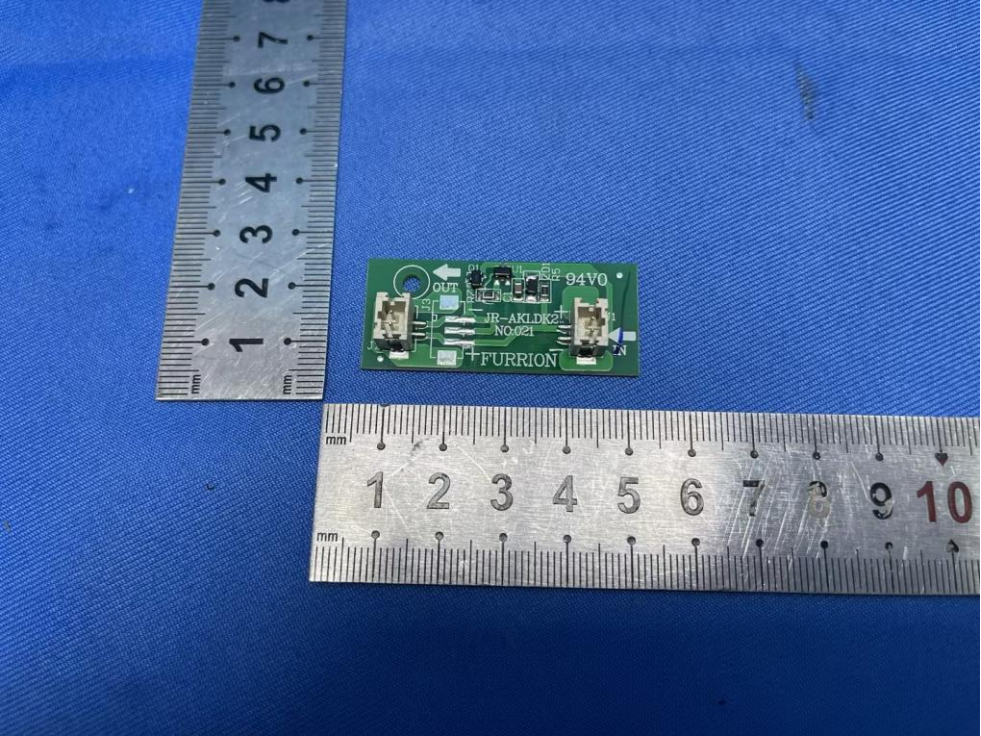
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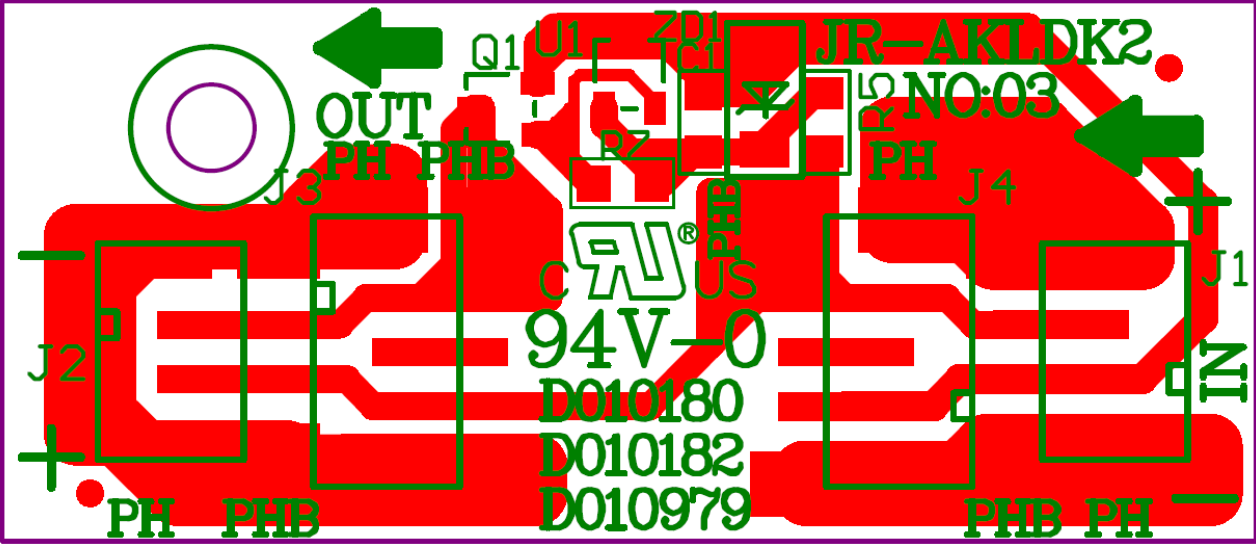


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Hall Effect Light Switch Board_2

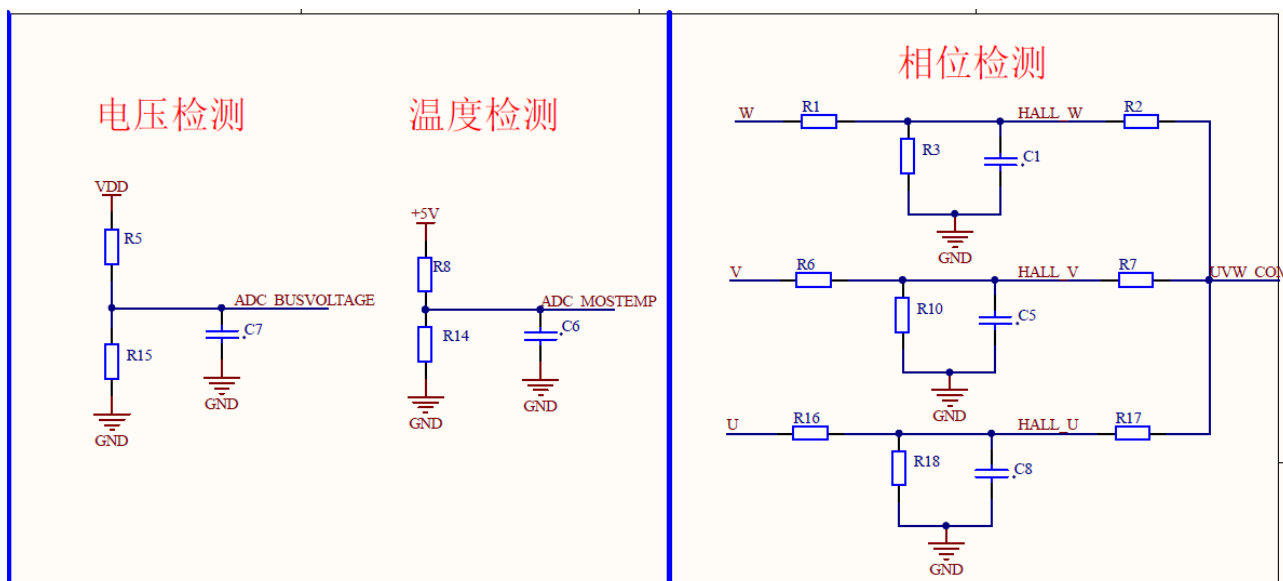
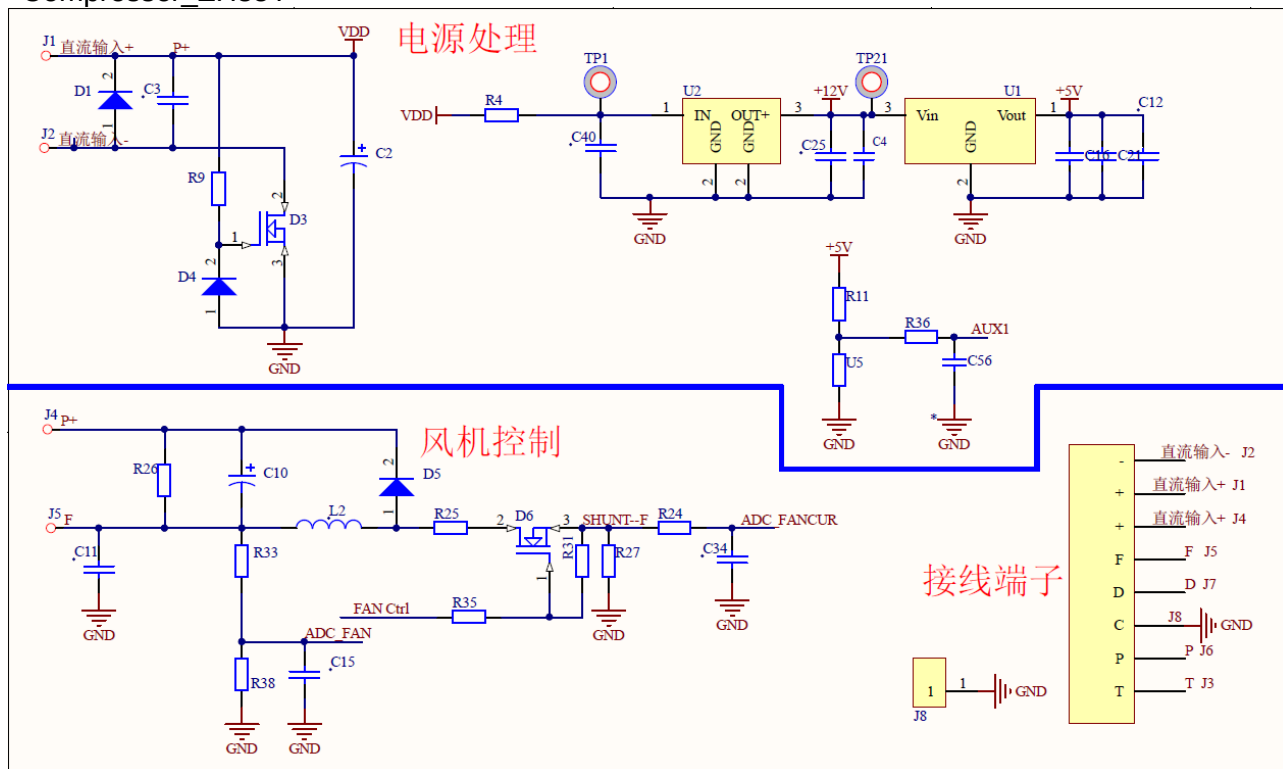


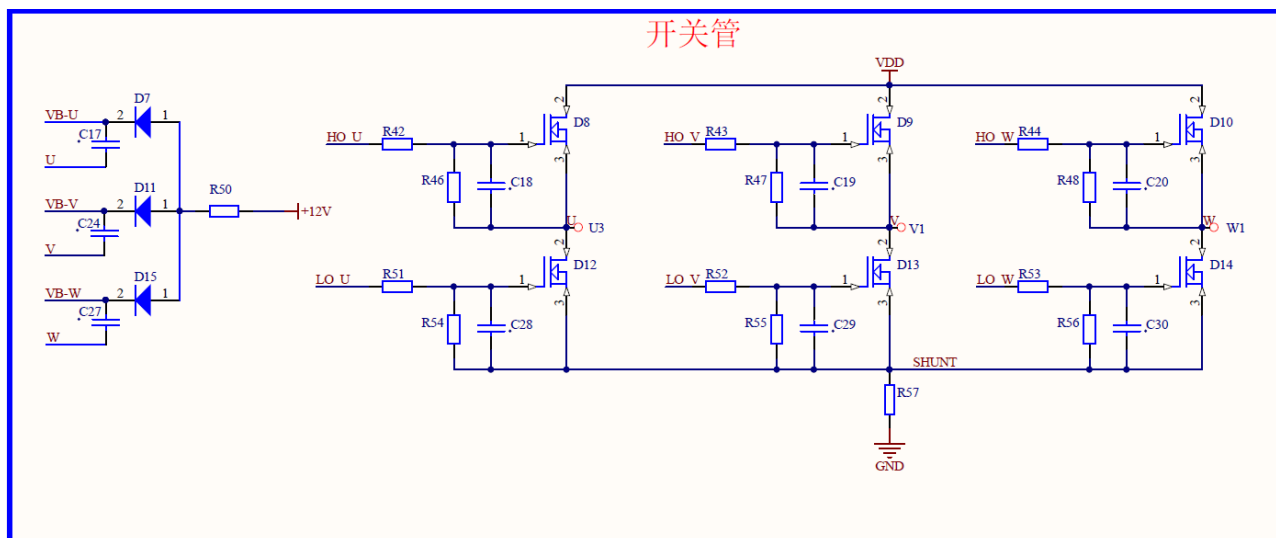
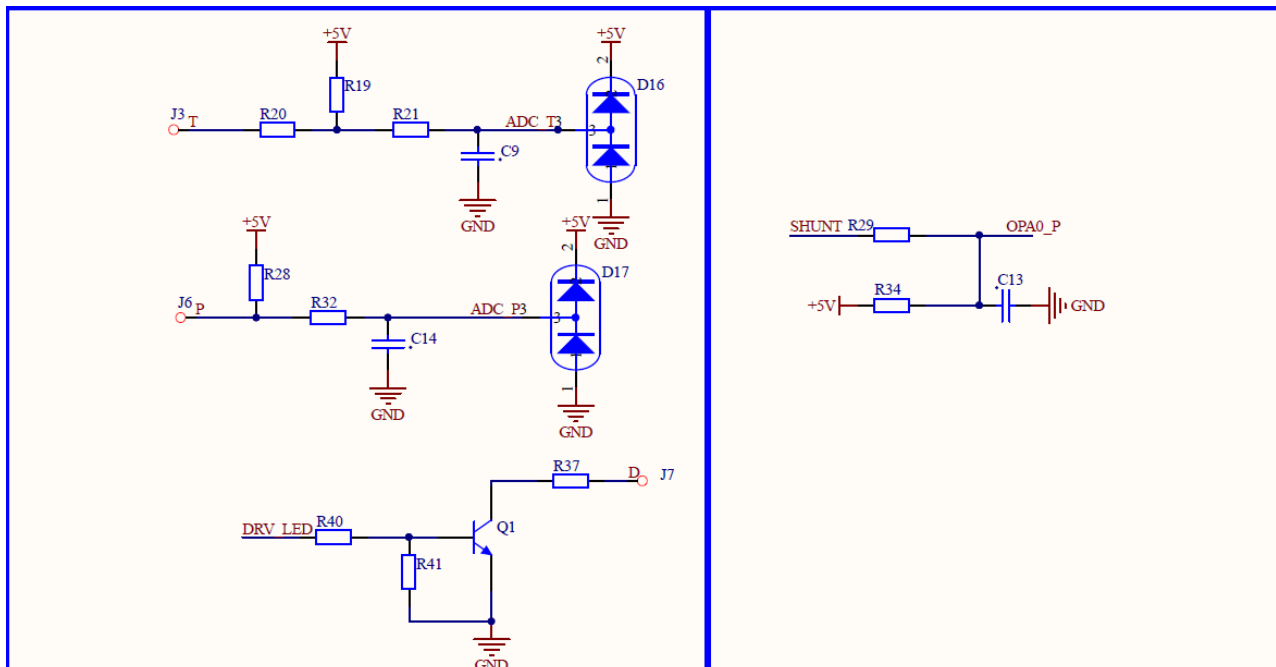
 Alpicool® WE MAKE YOU FEEL COOL	Foshan Alpicool Holding Group Co., Ltd.	Type: CR90X
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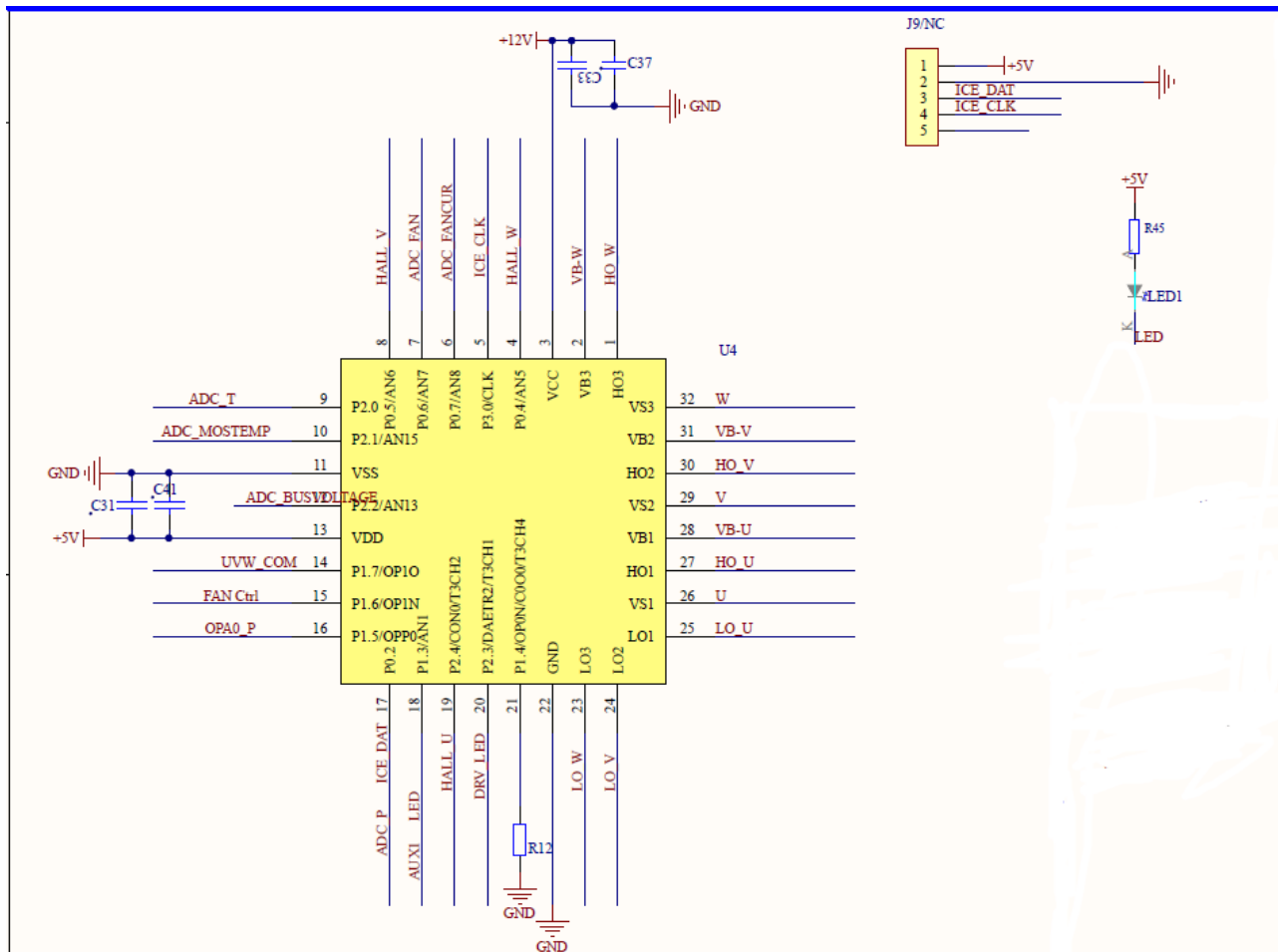


Attachment 4: Electric Circuit Diagram

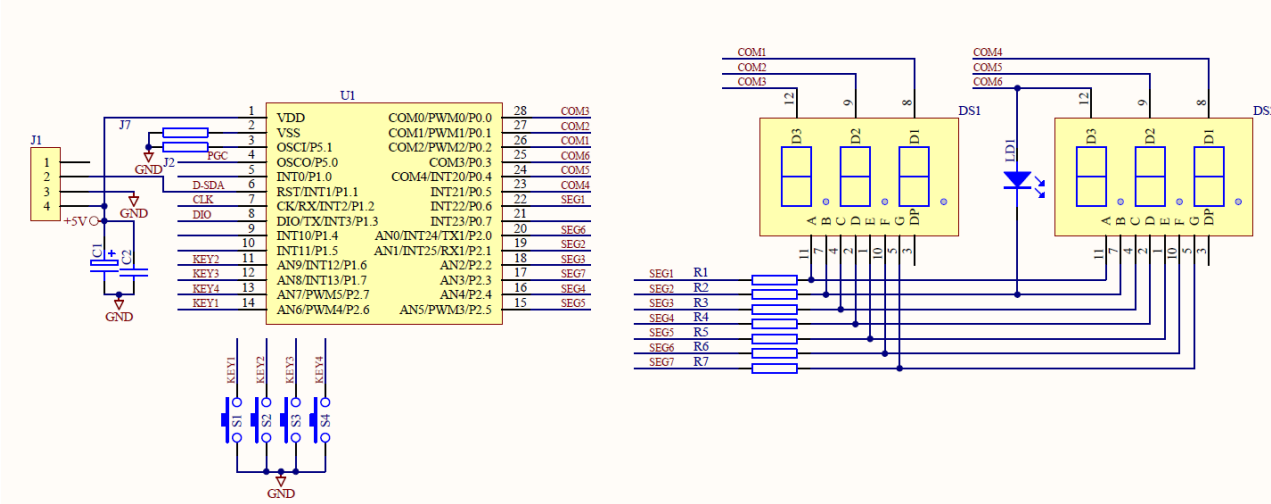
CR50X
Compressor_ZH35Y



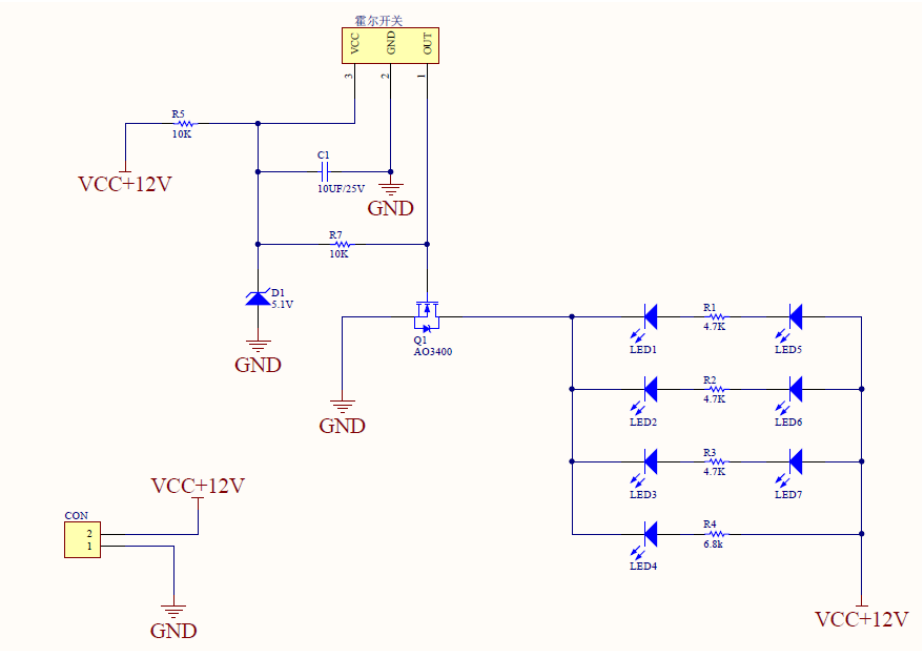




display board 3

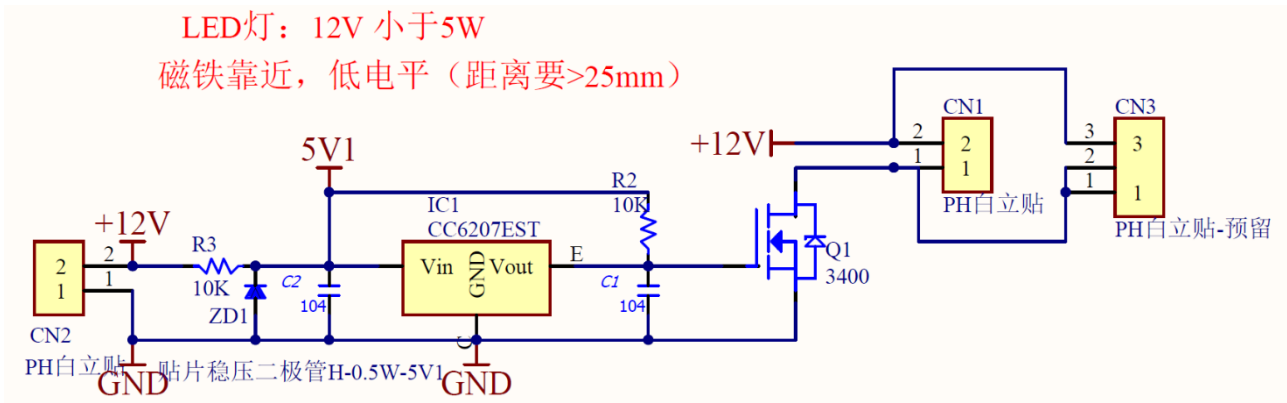


LED 1

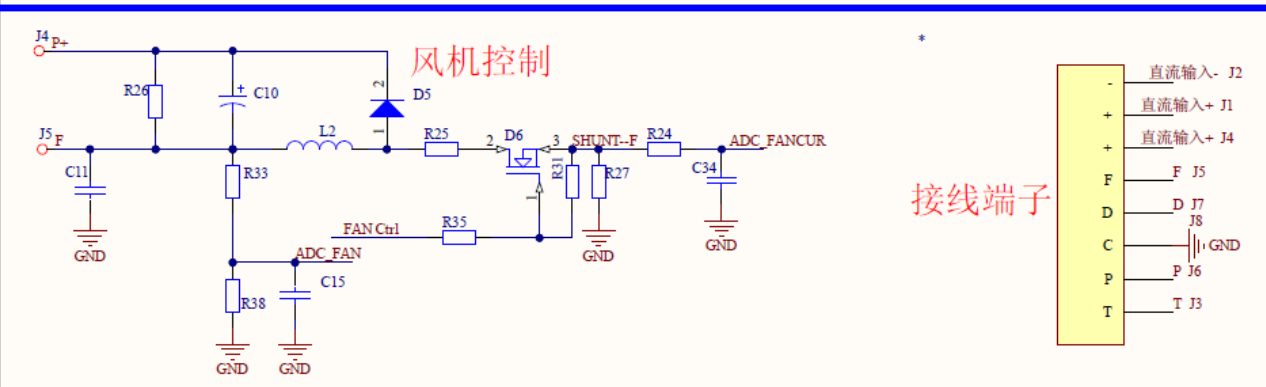
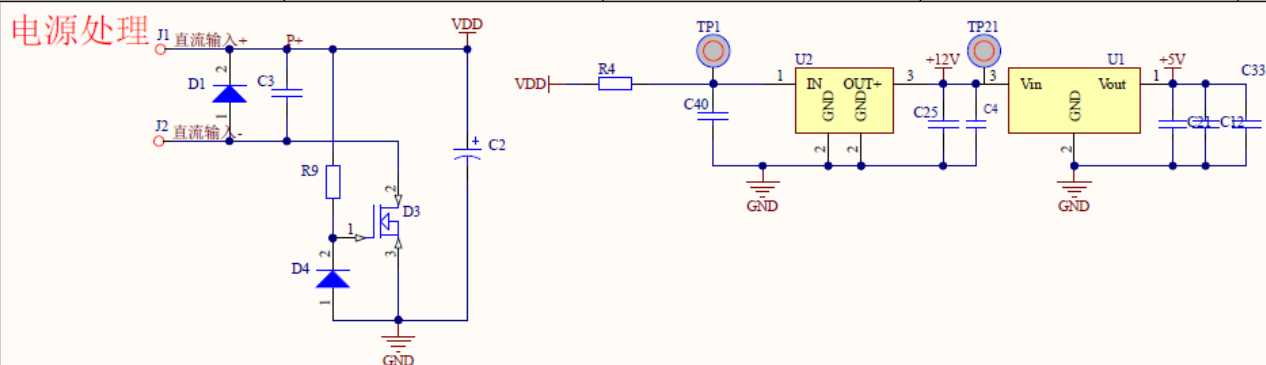


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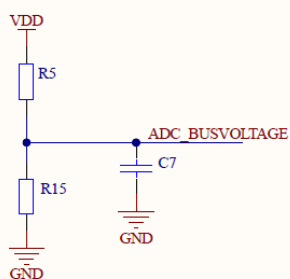
Hall Effect Light Switch Board_1



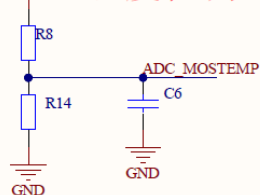
CR65
Compressor_DC43Y



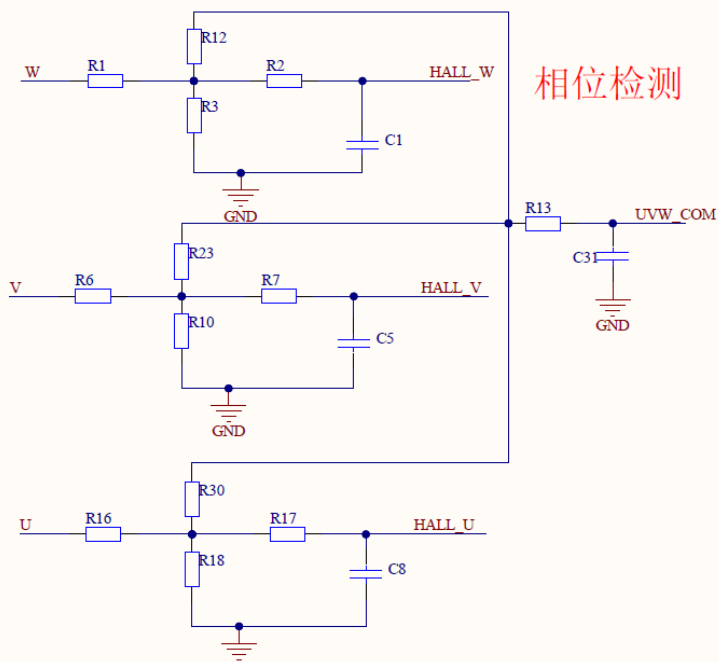
电压检测

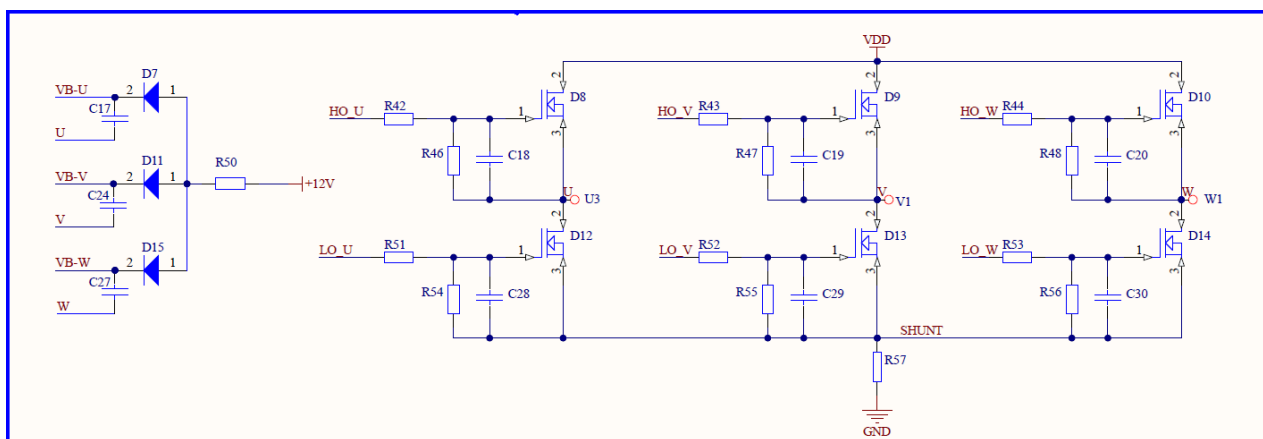
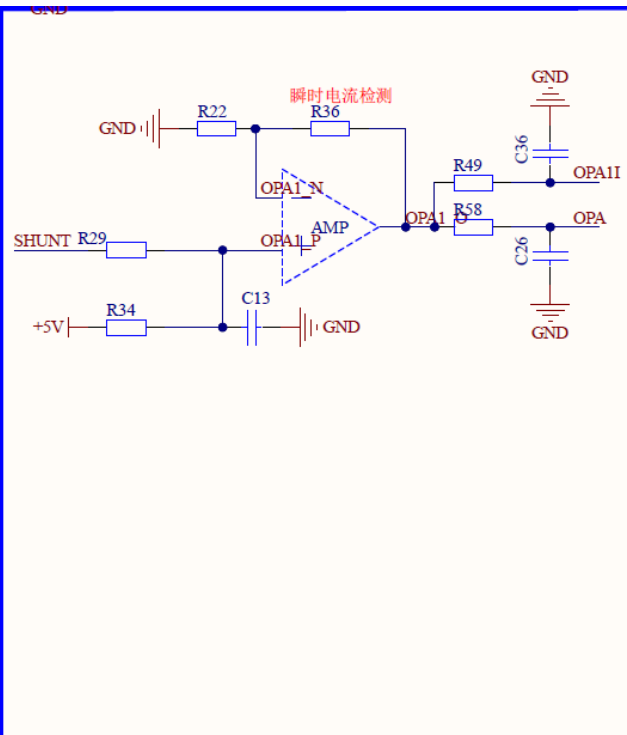
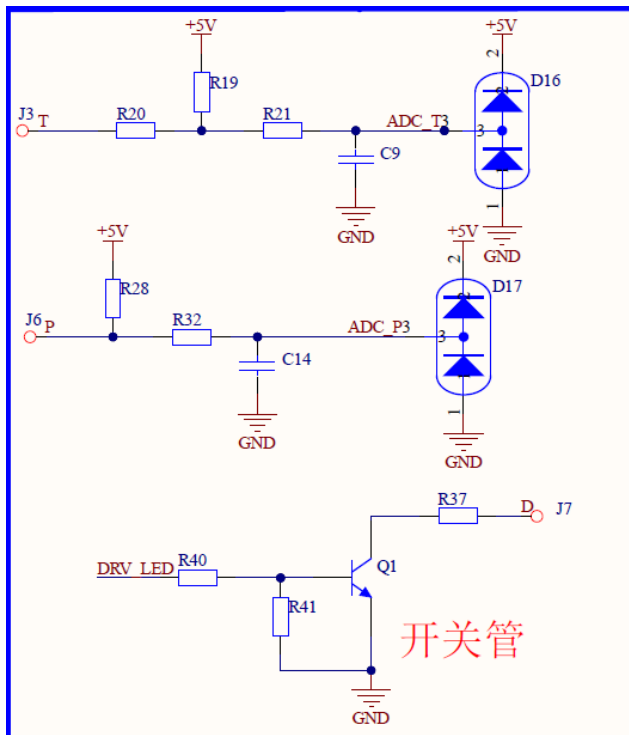


温度检测

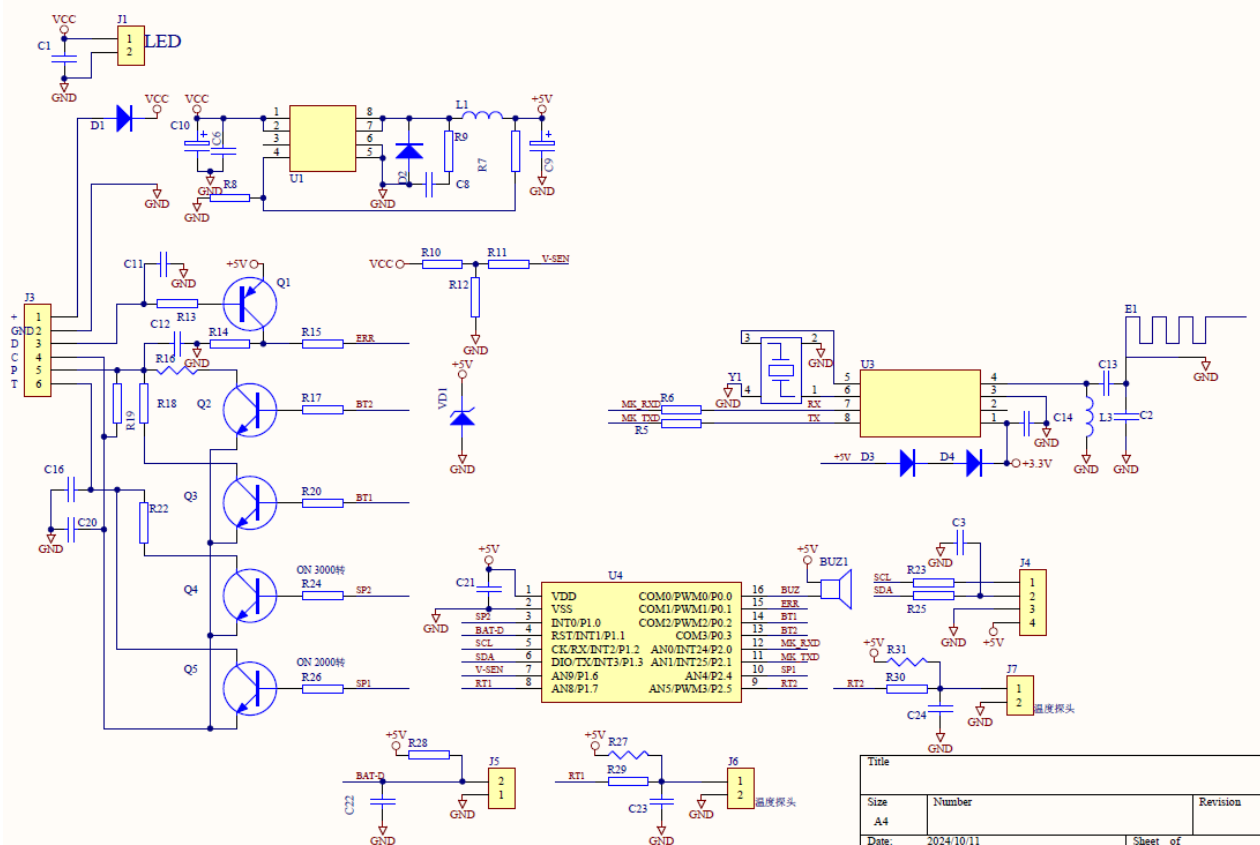


相位检测



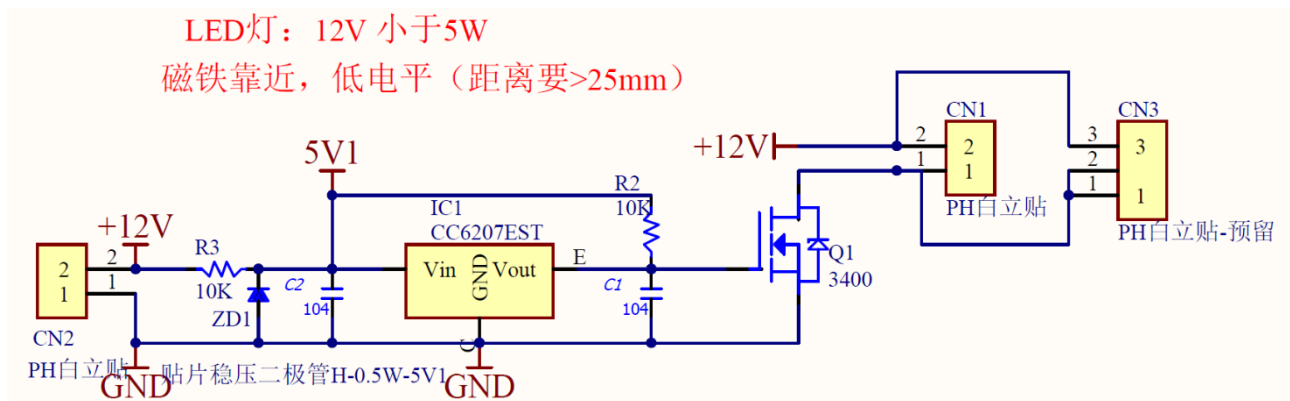


power board 2

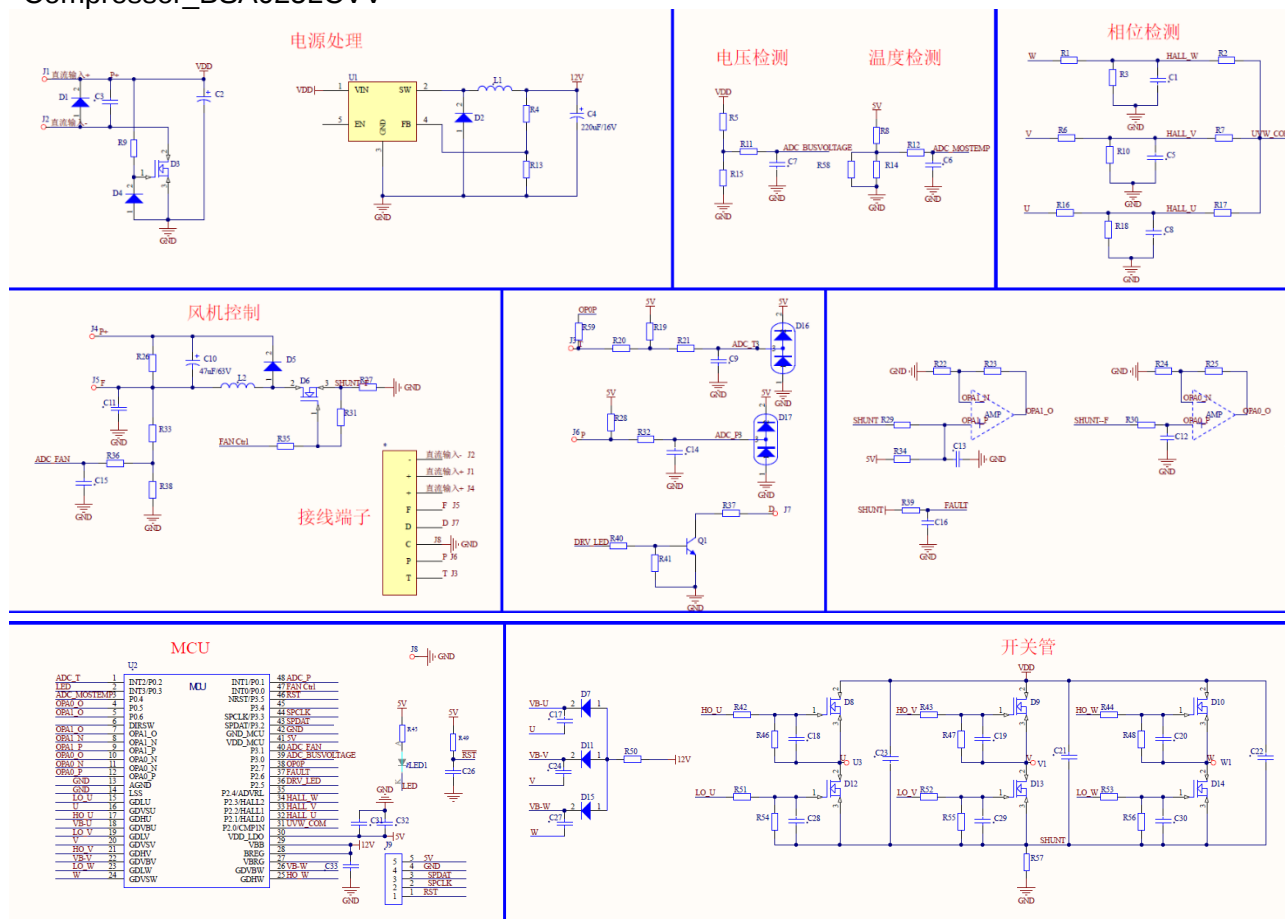


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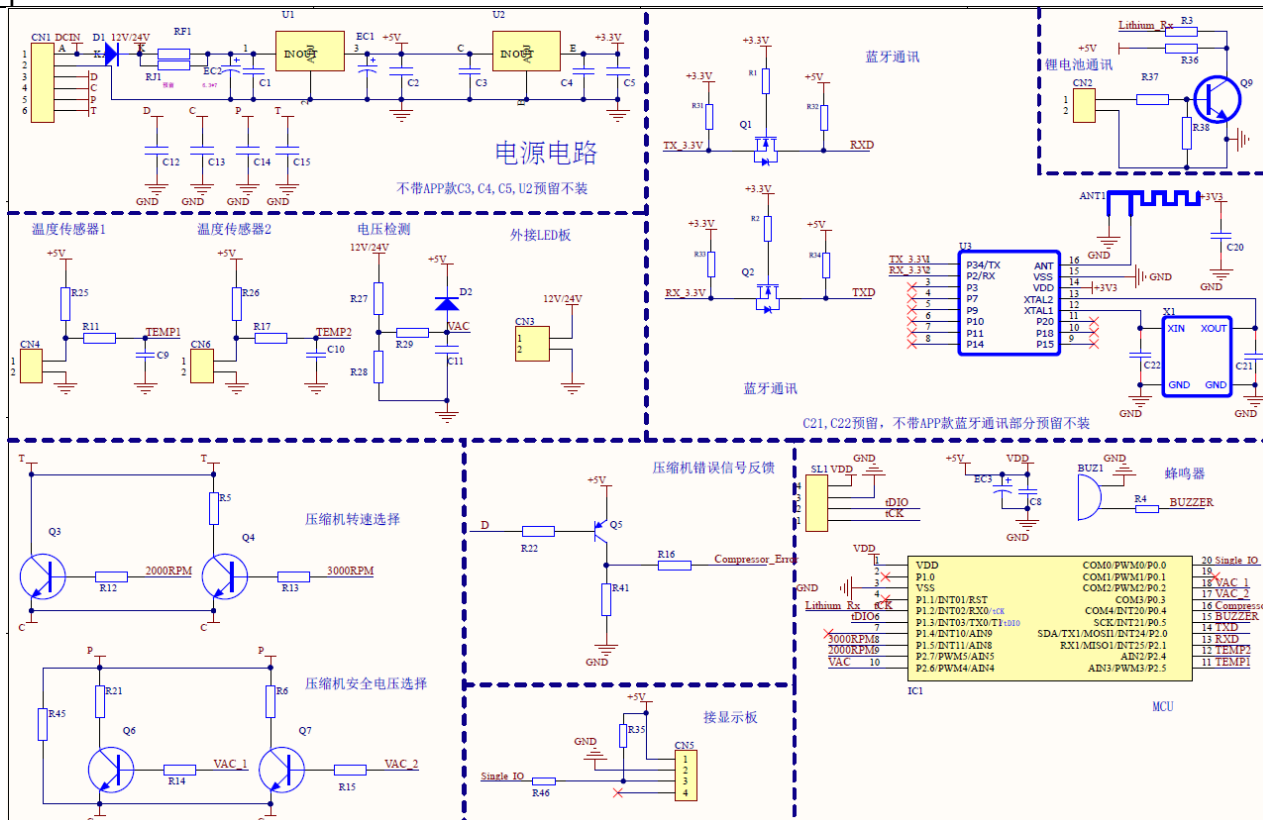
Hall Effect Light Switch Board_1



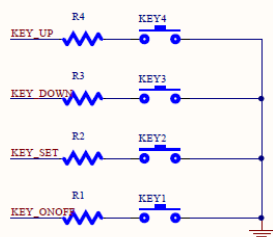
CR65
Compressor_BSA025LCVV



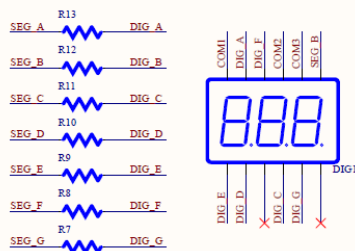
power board 1



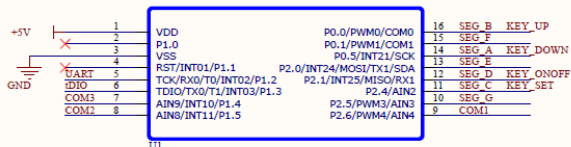
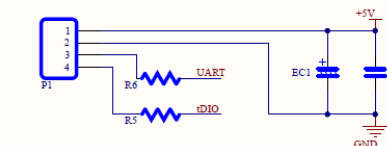
display board 1



按键检测



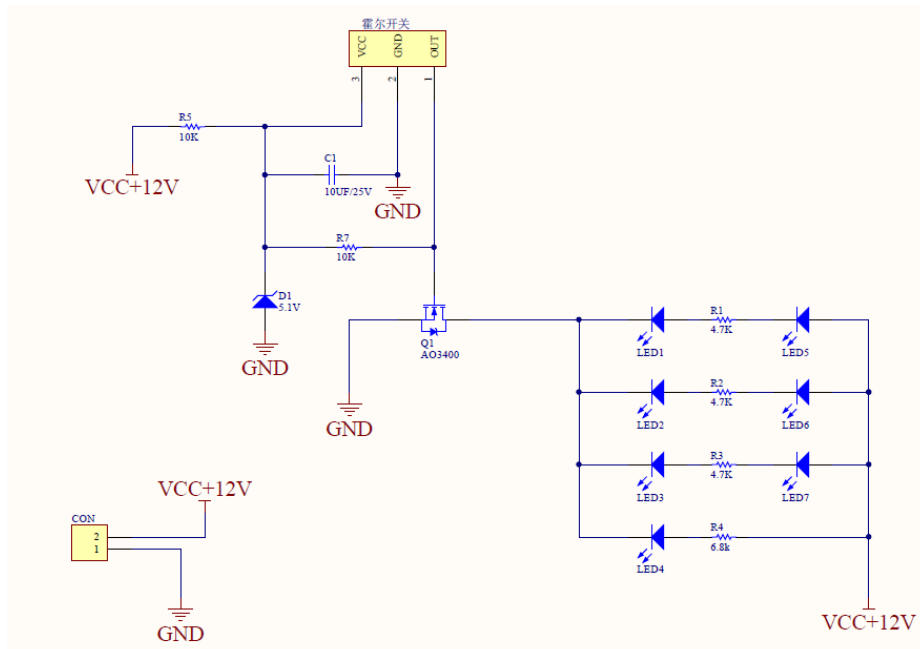
数码管显示



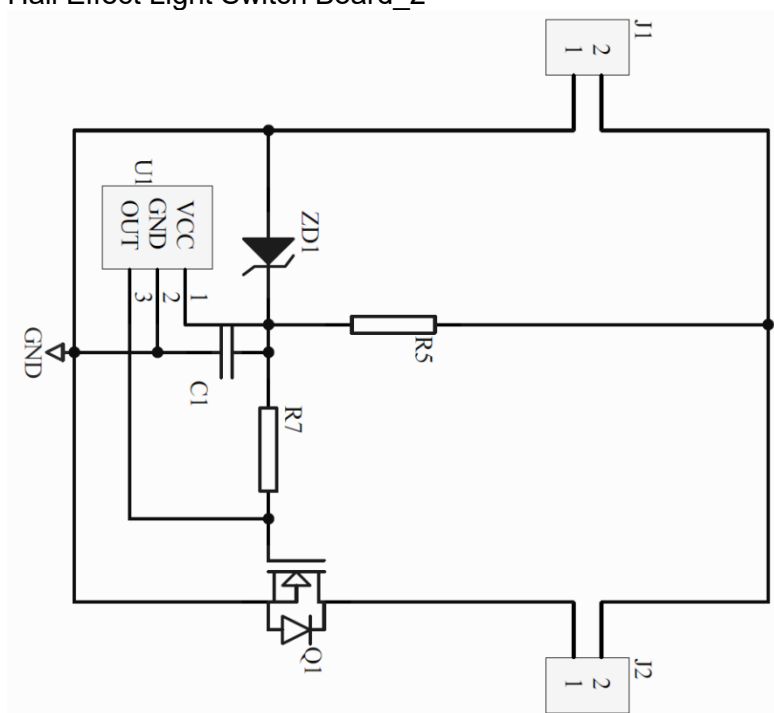
单片机

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LED 1

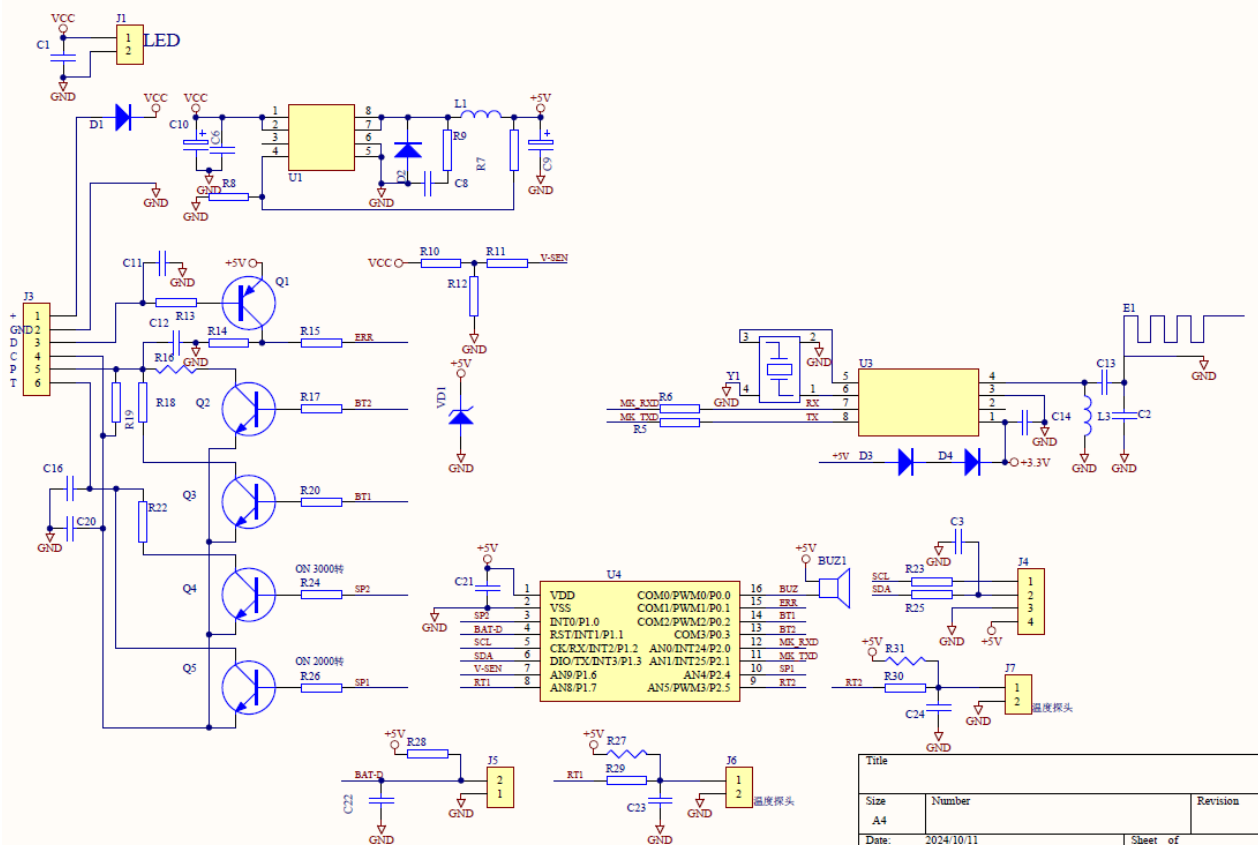


Hall Effect Light Switch Board_2

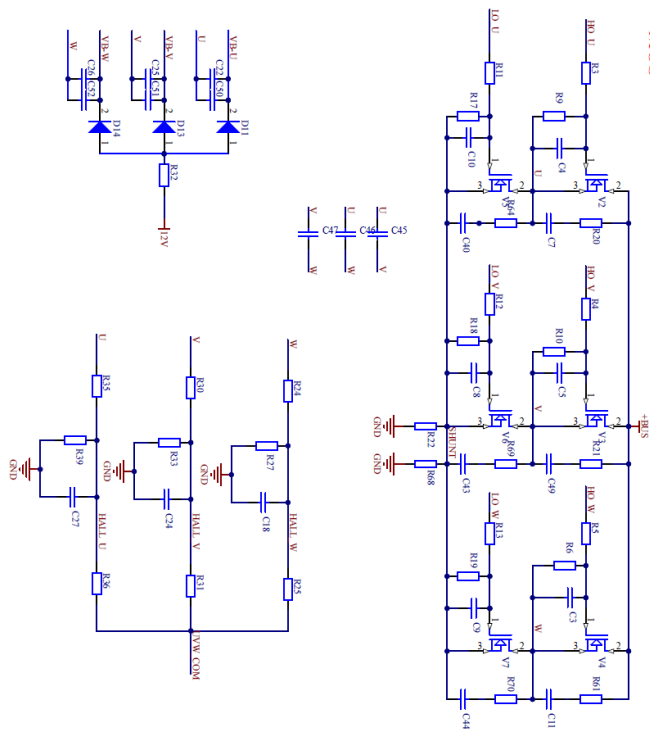




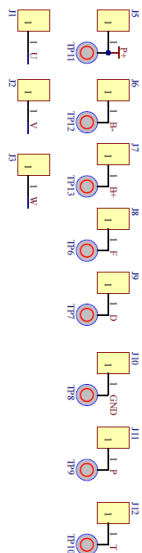
power board 5



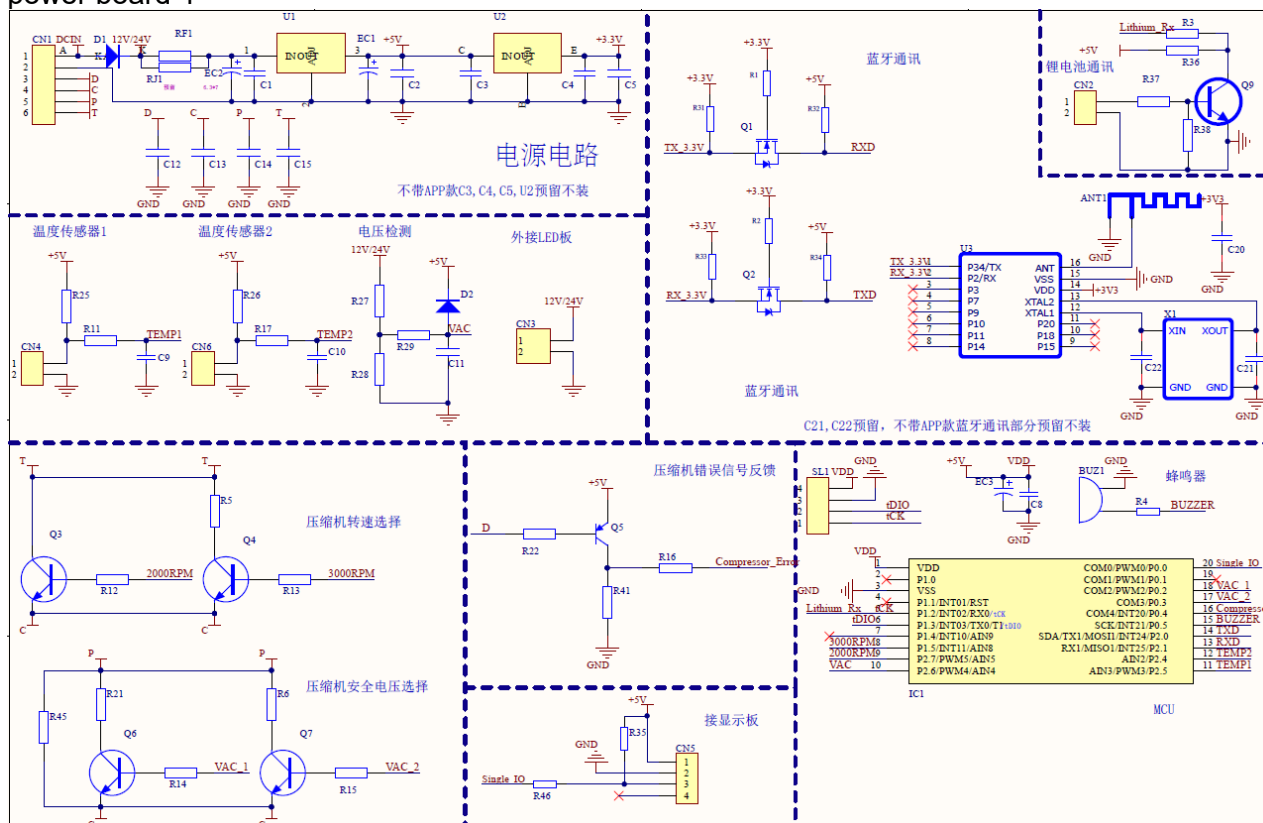
MOS



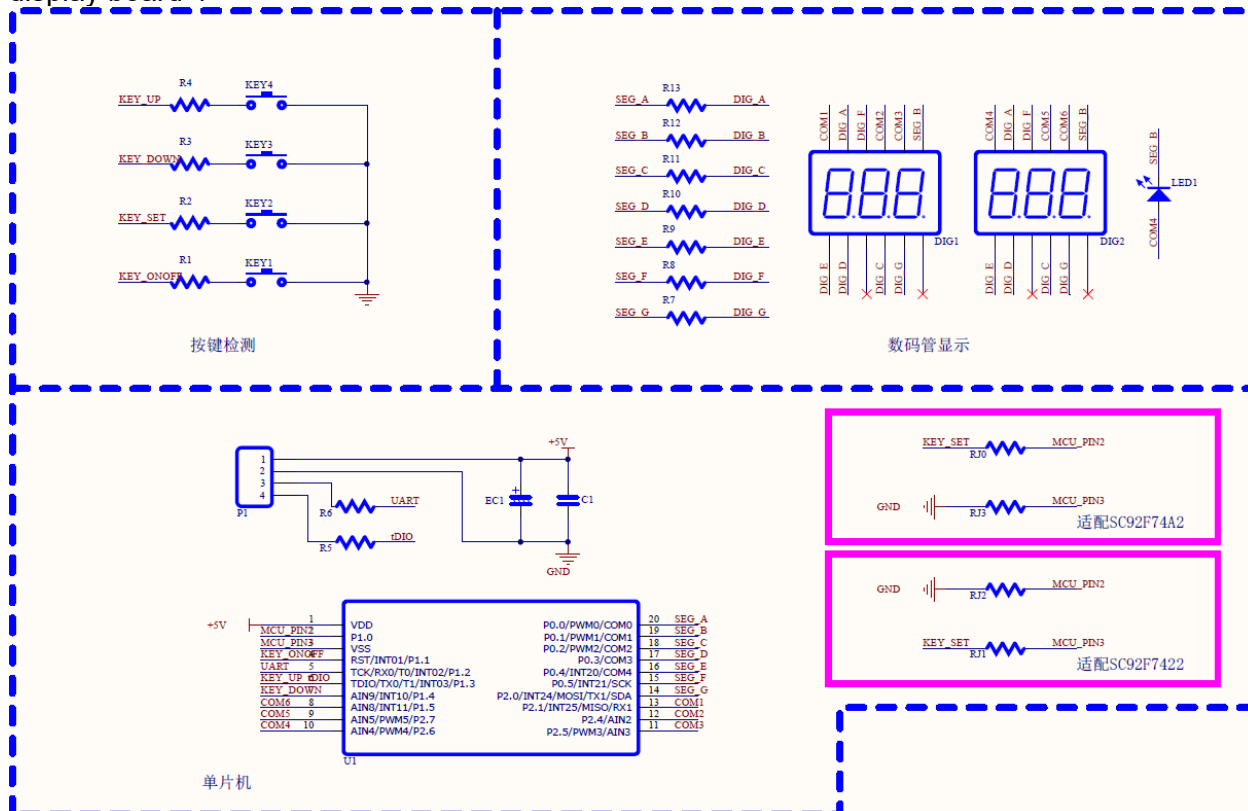
CONNECTOR



power board 4



display board 4



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Attachment 5: Bill of Materials

CR50X
Compressor_ZH35Y

No.	Product Name	Product Model	Version / Parameters	Reference Designator
1	MCU	SY8932N	SY8932N (QFN32)	U4
2	LDO	78L05AT	78L05AT(SOT-89)	U1
3	LDO	UTC78M12	UTC78M12(TO-252)	U2
4	MOS	AP50N04K	AP50N04K(TO-252)	D3
5	MOS	RU7080L	RU7080L (TO252)	D8,D9,D10,D12, D13,D14
6	MOS	SSF6808D4X	SSF6808D4X (TO-252)	D8,D9,D10,D12, D13,D14
7	MOS	WTR06N750LS	WTR06N750LS (TO-252)	D6
8	Through-Hole Inductor	TDR0810S-471KB01	0.47mH/1A/8*10	L2
9	Through-Hole Inductor	TDR0810S-471KB01	0.47mH/1A/8*10	L2
10	Through-Hole Electrolytic Capacitor	8470LGMAA12LYN 91E0	47uf/63V/6.3*12/5000H	C10
11	Through-Hole Electrolytic Capacitor	8681LEM1020LYN0 110	680uF/35V (10*20)	C2
12	TVS	1.5KE47CAL	1.5KE47CAL	D1
13	Diode	1N4007WS	1N4007WS(SOD-323)	D7,D11,D15
14	Diode	BAV99	BAV99 (SOT23)	D16,D17
15	Diode	BZT52C15	BZT52C15 (SOD-123)	D4
16	Diode	AL-0805UR08TY-E	LED Red 0805	LED1

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17	Diode	SS24A	SS24A(DO-214AC)	D5
18	Thermistor	CMFB103J3450HANT	NTC3450/10K(0805R/5%)	R14
19	Transistor	MMBT5551	MMBT5551 (SOT23)	Q1
20	Surface Mount Capacitor	0603B102K500NT	102/0603/50V/X7R	C13,C14
21	Surface Mount Capacitor	0603B103K500NT	103/0603/50V/X7R	C1,C5,C8
22	Surface Mount Capacitor	0603B104K500NT	104/0603/50V/X7R	C4,C6,C7,C9,C15,C21,C31,C34,C41,C37
23	Surface Mount Capacitor	1206B104K500NT	104/1206/50V/X7R	C3,C11,C25
24	Surface Mount Capacitor	CL21A106KAYNNNE	106/0805/25V/X5R	C12,C17,C24,C27,C33,C16
25	Surface Mount Capacitor	0603B222K500NT	222/0603/50V/X7R	C18,C19,C20,C28,C29,C30
26	Surface Mount Capacitor	CL21A225KBQNNNE	225/0805/50V/X5R	C40
27	Surface Mount Resistor	FRC0603P000TS	0R/0603/5%	R12
28	Surface Mount Resistor	FRC0805F0000TS	0R/0805/1%	R4,R25
29	Surface Mount Resistor	FRC0603F1003TS	100K/0603/1%	R1,R2,R5,R6,R7,R9,R16,R17,R26,R31,R41,R46,R47,R48,R54,R55,R56,R33
30	Surface Mount Resistor	FRC0603F1000TS	100R/0603/1%	R35,R42,R43,R44,R51,R52,R53
31	Surface Mount Resistor	FRC0603F1002TS	10K/0603/1%	R28,R29,R40,R45
32	Surface Mount Resistor	FRC0603F1802TS	18K/0603/1%	R3,R10,R15,R18,R38
33	Surface Mount Resistor	FRC0603F1001TS	1K/0603/1%	R8
34	Surface Mount Resistor	FRC0603F1004TS	1M/0603/1%	R34

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35	Surface Mount Resistor	FRC0603F2000TS	200R/0603/1%	/
36	Surface Mount Resistor	FRC0603F2200TS	220R/0603/1%	R20
37	Surface Mount Resistor	FRC0805F22R0TS	22R/0805/1%	R50
38	Surface Mount Resistor	FRC0603F3002TS	30K/0603/1%	R24
39	Surface Mount Resistor	FRC0603F4701TS	4K7/0603/1%	R21,R32,R37
40	Surface Mount Resistor	RTG1210HR500FT G	500mR/1210/1%	R27
41	Alloy Resistor	LRBM25EFER005	5mR/2512/1%/2W	R57
42	Surface Mount Resistor	FRC0603F7500TS	750R/0603/1%	R19

power board 3

Material name	Specifications and models	Quantity	Position
SMD resistor	0805-20Ω±5%	2	R23 R25
SMD resistor	0805-2Ω±5%	1	R9
SMD resistor	0805-820Ω±5%	1	R18
SMD resistor	0805-1K±5%	6	R5 R6 R11 R13 R29 R30
SMD resistor	0805-4.7K±5%	6	R15-R17 R20 R24 R26
SMD resistor	0805-10K±5%	2	R14 R28
SMD resistor	0805-47K±5%	1	R19
SMD resistor	0805-665Ω±1%	1	R22
SMD resistor	0805-5.11K±1%	3	R12 R27 R31
SMD resistor	0805-16.2K±1%	1	R8
SMD resistor	0805-82K±1%	1	R7
SMD resistor	0805-86.6K±1%	1	R10
SMD capacitor	0603-C0G-2.7P-50V±5%	1	C13
SMD capacitor	0603-X5R-105-25V±10%	1	C14
SMD capacitor	0805-X7R-102-50V±10%	7	C1 C8 C11 C12 C16 C20 C22
SMD capacitor	0805-X7R-104-50V±10%	4	C6 C21 C23 C24

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SMD inductor	47uH	1	L1
Surface Mount Voltage Regulator Diode	5.6V/0.5W SOD-123	1	VD1
SMD diode tube	1N4148W SOD-123	2	D3 D4
SMD diode tube	DSS110 SOD-123	2	D1 D2
SMD transistor	MMBT5401 SOT-23	1	Q1
SMD transistor	MMBT5551 SOT-23	4	Q2-Q5
SMD IC	SC92F7421M16U SOP16	1	U4
SMD IC	AP1704A SOP8	1	U1
SMD IC	JR-AKBLE	1	U3
SMD crystal oscillator	24MHz	1	Y1
Electrolytic capacitor	10uF/50V-105°C ±20%4×7	1	C10
Electrolytic capacitor	100uF/16V-105°C ±20%5×11	1	C9
Buzzer	B1407-0540PA7.6	1	BUZ1
Socket terminal	PH-2A	1	J1
Socket terminal	PH-2A/Red	1	J5
Socket terminal	PH-4A	1	J4
Socket terminal	XHS-2A/Red	1	J6
Socket terminal	XHS-2A/Blue	1	J7
Socket terminal	XHS-6A	1	J3

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display board 3

Material name	Specifications and models	Quantity	Position
SMD resistor	0603-0Ω±5%	1	J7
SMD resistor	0603-220Ω±5%	7	R1-R7
SMD capacitor	0603-X7R-104-50V±10%	1	C2
SMD IC	SC92F7423X28U TSSOP28	1	U1
SMD light Emitting Diode	0805/Emerald green	1	LD1
Electrolytic capacitor	10uF/50V-105°C±20% 4×7	1	C1
Socket terminal	PH-4A	1	J1
Tap the button lightly	6*6*9 with cap 6*1	4	S1-S4
Digital tube	LN3314AW-JR-M	2	DS1 DS2

LED 1 PCB

Material name	Specifications and models	Quantity	Position
SMT LED beads	5730 white Lot NO: WCMSA05W-8L754	7	LO1--L07
Surface Mount Field Effect Transistor	AO3400 SOT-23	1	Q1
SMD diode tube	5V1Z W8 SOD-123	1	ZD1
SMD resistor	0R-5%-1206	1	JP1
SMD resistor	4.7K-5%-1206	3	R1--R3
SMD resistor	6.8K-5%-1206	1	R4
SMD resistor	10K-5%-0805	2	R5,R7
SMD capacitor	1UF/50V-10%-0805	1	C1
connecting terminal	PH-2A	1	J1

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Hall Effect Light Switch Board_1

Material name	Specifications and models	Quantity	Position
circuit board	HMJD-CZBX015Q2-3	1	
SMD capacitor	H-0603-50V-104-±10%-X7R	2	C1,C2
SMD resistor	H-0603-10K-±5%-1/10W	1	R2
SMD resistor	H-0603-5K1-±5%-1/10W	1	R3
Surface mount voltage regulator diode	H-0.5W-5V1-MM1Z5V1(SOD-123)	1	ZD1
hall sensor	H-CC6207MST(SOT23-3)	1	IC1
hall sensor	H-CC6207EST(SOT23-3)	1	IC1
SMD field-effect transistor	H-30V-5.8A-AO3400(SOT-23)	1	Q1
SMT needle holder	H-PH	2	CN1,CN2

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CR65
Compressor_DC43Y

No.	Product Name	Product Model	Version / Parameters	Reference Designator
1	MCU	MM32SPIN080C(Ak1)	MM32SPIN080C(Ak1) (QFN-48)	U1
2	MCU	MM32SPIN080C(BK1)	MM32SPIN080C(BK1) (QFN-48)	U1
3	LDO	UTC78M12	UTC78M12(TO-252)	U4
4	MOS	AP50N04K	AP50N04K(TO-252)	D3
5	NMOS	PE02N05A	PE02N05A (SOT-23)	Q16
6	MOS	SSF6808D4X	SSF6808D4X (TO-252)	D8,D9,D10,D12, D13,D14
8	Through-Hole Electrolytic Capacitor	GF1J470ME110A00CE0	47uF/63V(6.3*11.5)105°/2000H	C10
9	Through-Hole Electrolytic Capacitor	8681LEM1020LYN0110	680uF/35V (10*20)	C2
10	Diode	1N4148WS	1N4148WS(SOD-323)	D7,D11,D15
11	Diode	BZT52C15	BZT52C15 (SOD-123)	D4
12	Diode	AL-0805UR08TY-E	LED RED 0805	LED1
13	TVS	SMCJ40CA	SMCJ40CA (DO-214AB)	D1
14	Diode	SS24A	SS24A(DO-214AC)	D5
24	Surface Mount Thermistor	SDNT2012X103J3450HTF	NTC3450/10K(0805R/5%)	R14
25	Transistor	MMBT5551	MMBT5551 (SOT23)	Q1
27	Surface Mount Inductor	KTNR6045S-101MCS	KTNR6045S-101MCS(6.0*6.0*4.5)	L1
28	Surface Mount Capacitor	0603CG101J500NT	101/0603/50V/NPO	C33,C1
29	Surface Mount Capacitor	0603B104K500NT	104/0603/50V/X7R	C4,C6,C7,C9,C13,C14,C15,C21,C23,C34,C31
30	Surface Mount Capacitor	CL21B104KBCNNNC	104/0805/50V/X7R	C3,C11,C25
31	Surface Mount Capacitor	CL10A105KB8NNNC	105/0603/50V/X5R	C8
32	Surface Mount Capacitor	CL21A106KAYNNNE	106/0805/25V/X5R	C12,C16,C22,C17,C24,C27,C32

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33	Surface Mount Capacitor	0603B222K500NT	222/0603/50V/X7R	C18,C19,C20,C28,C29,C30
34	Surface Mount Capacitor	CL21A225KBQNNNE	225/0805/50V/X5R	C40
35	Surface Mount Capacitor	0603CG470J500NT	470/0603/50V/NPO	C26
36	Surface Mount Resistor	FRC0805P000TS	0R/0805/5%	R4,R25
37	Surface Mount Resistor	FRC0603F1003TS	100K/0603/1%	R5,R9,R26,R31,R41,R46,R47,R48,R54,R55,R56,R33
38	Surface Mount Resistor	FRC0603F1000TS	100R/0603/1%	R35
39	Surface Mount Resistor	FRC0603F1002TS	10K/0603/1%	R12,R28,R29,R40,R45,R49,R3
40	Surface Mount Resistor	FRC0603F1502TS	15K/0603/1%	R15,R38
41	Surface Mount Resistor	FRC0603F1001TS	1K/0603/1%	R1,R7,R11,R8
42	Surface Mount Resistor	FRC1210F1R00TS	1R/1210/1%	R27
43	Surface Mount Resistor	FRC0603F2000TS	200R/0603/1%	R42,R43,R44,R51,R52,R53
44	Surface Mount Resistor	FRC0603F2200TS	220R/0603/1%	R20
45	Surface Mount Resistor	FRC0805F22R0TS	22R/0805/1%	R50
46	Surface Mount Resistor	WR06X273 JTL	27K/0603/5%	R6
47	Surface Mount Resistor	FRC0603F4701TS	4K7/0603/1%	R21,R32,R37,R2
48	Alloy Resistor	LRBM25EFER005	5mR/2512/1%/2W	R57
49	Surface Mount Resistor	FRC0603F7500TS	750R/0603/1%	R19

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power board 2

Material name	Specifications and models	Quantity	Position
Buzzer	ZL-YDW1207N-4005PA-7.5S	1	BUZ1
Connector seat	PH,2P,white	1	CN3
Connector seat	PH,2P,red	1	CN2
Connector seat	PH,4P,white	1	CN5
Connector seat	XH,2P,red	1	CN6
Connector seat	XH,2P,blue	1	CN4
Connector seat	XHD,6P,white	1	CN1
Electrolytic capacitor	100uF,16V	2	EC1,EC3
Electrolytic capacitor	47uF,50V	1	EC2
Wire wound resistance	2WS,51Ω	1	RF1
communication IC	ST17H66B2	1	U3
SMD crystal	16.000MHz	1	X1
SMD resistor	0603,101 (100Ω)	4	R1,R2,R3,R37
SMD resistor	0603,102 (1KΩ)	8	R11,R12,R13,R14,R15,R16,R17,R29
SMD resistor	0603,103 (10KΩ)	7	R31,R32,R33,R34,R35,R36,R38
SMD resistor	0603,203 (20KΩ)	1	R41
SMD resistor	0603,471 (470Ω)	1	R4
SMD resistor	0603,472 (4.7KΩ)	2	R21,R22
SMD resistor	0603,473 (47KΩ)	1	R45
SMD resistor	0603,510 (51Ω)	1	R46
SMD resistor	0603,821 (820Ω)	1	R6
SMD resistor	0603,5101 (5.1KΩ)	3	R25,R26,R28
SMD resistor	0603,8662 (86.6KΩ)	1	R27
SMD resistor	0603,6800 (680Ω)	1	R5
SMD capacitor	0603,102,50V	4	C12,C13,C14,C15
SMD capacitor	0603,104,50V	8	C20,C1,C2,C5,C8,C9,C10,C11
SMD capacitor	0603,106,10V	2	C3,C4
SMD switch diode	D_mmSD4148	1	D2

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SMD Schottky diode	SS34	1	D1
SMT transistor	mmBT5401	1	Q5
SMT transistor	mmBT5551-B	5	Q3,Q4,Q6,Q7,Q9
SMD MOS	2SK3018	2	Q1,Q2
Surface mount voltage stabilization IC	78D05L	1	U1
Surface mount voltage stabilization IC	CE6301A33M1	1	U2
SMD IC MCU	SC95R503M	1	IC1
PCB	PCB,95*22*1.6mm,FR-4	1	

display board 2

Material name	Specifications and models	Quantity	Position
Digital tube	CLTD-3312AW-3.5-P	1	DIG1
Pushbutton switch	6*6*8.5mm	4	KEY1-KEY4
Electrolytic capacitor	100uF,16V	1	EC1
Connector seat	PH,4P,whtie	1	CN1
chip resistor	0603,102 (1KΩ)	4	R1-R4
chip resistor	0603,510 (51Ω)	2	R5,R6
chip resistor	0603,0Ω	1	RJ1
chip resistor	0603,331 (330Ω)	7	R7-R13
chip capacitor	0603,104,50V	1	C1
SMD IC MCU	SC92F73A1	1	U1
PCB	PCB,128*16*1.6mm,FR-4	1	

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LED 1 PCB

Material name	Specifications and models	Quantity	Position
SMT LED beads	5730 white Lot NO: WCMSA05W-8L754	7	LO1--L07
Surface Mount Field Effect Transistor	AO3400 SOT-23	1	Q1
SMD diode tube	5V1Z W8 SOD-123	1	ZD1
SMD resistor	0R-5%-1206	1	JP1
SMD resistor	4.7K-5%-1206	3	R1--R3
SMD resistor	6.8K-5%-1206	1	R4
SMD resistor	10K-5%-0805	2	R5,R7
SMD capacitor	1UF/50V-10%-0805	1	C1
connecting terminal	PH-2A	1	J1

Hall Effect Light Switch Board_1

Material name	Specifications and models	Quantity	Position
circuit board	HMJD-CZBX015Q2-3	1	
SMD capacitor	H-0603-50V-104-±10%-X7R	2	C1,C2
SMD resistor	H-0603-10K-±5%-1/10W	1	R2
SMD resistor	H-0603-5K1-±5%-1/10W	1	R3
Surface mount voltage regulator diode	H-0.5W-5V1-MM1Z5V1(SOD-123)	1	ZD1
hall sensor	H-CC6207MST(SOT23-3)	1	IC1
hall sensor	H-CC6207EST(SOT23-3)	1	IC1
SMD field-effect transistor	H-30V-5.8A-AO3400(SOT-23)	1	Q1
SMT needle holder	H-PH	2	CN1,CN2

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CR65
Compressor_BSA025LCVV

product name	PRODUCT MODEL	parameter	quantity
MCU	SPC5L18BNL4/SY8948NB	SPC5L18BNL4/SY8948NB	1
IC	TD1507TR(TO-252)	TD1507TR(TO-252)	1
MOS	MCU20N06C	MCU20N06C (TO-252)	1
MOS	NCE6020AK	NCE6020AK (TO-252)	1
MOS	SVG076R5NDTR	SVG076R5NDTR (TO-252)	7
MOS	VS6622AD	VS6622AD	1
MOS	WTR06N300LS	WTR06N300LS	1
PCB	PCB_CZ_BX60_ZB_V28(1)	PCB_CZ_BX60_ZB_V28(1)	1
Plug in inductor	KPKU0810JB501-S036	0.47mH/1A/8*10	2
Plug in electrolytic capacitor	ENB1VM102W20OT	1000uF/35V(12.5*20)130°C	1
Plug in electrolytic capacitor	ERF1CM221E110T	220uF/16V(6.3*11)	1
Plug in electrolytic capacitor	GF1C221ME110A00CE0	220uF/16V(6.3*12)	1
Plug in electrolytic capacitor	GF1J470ME110A00CE0	47uF/63V(6.3*11.5)105°/200 0H	1
Plug in electrolytic capacitor	ERR1JM470E12OT	47uF/63V(6.3*12)2000H	1
Plug in electrolytic capacitor	8470LGMAA12LYN91E0	47uf/63V/6.3*12/5000H	1
TVS tube	1.5KE47CA	1.5KE47CA (JJW)	1
TVS tube	1.5KE47CAL	1.5KE47CAL	1
SMD diode	1N4148W-7-F(SOD-123)	1N4148W-7-F(SOD-123)	3
SMD diode	1N4148W-7-F(SOD-123)	1N4148W-7-F(SOD-123)	3
diode tube	BAV99	BAV99 (SOT23)	2
diode tube	GT-0805R011SA-0.8T-L	LED0805	1
diode tube	GBD-C171KRKT-DZ(0805)	LED	1
SMD diode	SS24(DO-214AC)	SS24(DO-214AC)	2
SMD NTC Thermistor	SDNT2012X103J3450HTF	NTC3450/10K(0805R/5%)	1
diode tube	MMBT5551	MMBT5551(SOT23)	1
diode tube	MMBT5551	MMBT5551 (SOT23)	1
chip capacitor	0603B102K500NT	102/0603/50V/X7R	1
chip capacitor	0603B103K500NT	103/0603/50V/X7R	5
chip capacitor	0603B104K500NT	104/0603/50V/X7R	7
chip capacitor	1206B104K101NT	104/1206/100V/X7R	5
chip capacitor	1206B104K500NT	104/1206/50V/X7R	5
chip capacitor	CL31A106KBHNNNE	106/1206/50V/X5R	5
chip capacitor	CS3216X5R106K500NRI	106/1206/50V/X5R	5
chip resistor	WR06X1003FTL	100K/0603/1%	18

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chip resistor	WR06X1000FTL	100R/0603/1%	1
chip resistor	WR06X1002FTL	10K/0603/1%	7
chip resistor	WR06X1302FTL	13K/0603/1%	1
chip resistor	WR06X1802FTL	18K/0603/1%	5
chip resistor	WR06X1001FTL	1K/0603/1%	4
chip resistor	WR06X1501FTL	1K5/0603/1%	1
chip resistor	WR06X1004FTL	1M/0603/1%	1
chip resistor	WR06X2200FTL	220R/0603/1%	1
chip resistor	WR08X22R0FTL	22R/0805/1%	1
chip resistor	WR06X47R0FTL	47R/0603/1%	6
chip resistor	WR06X4701FTL	4K7/0603/1%	4
chip resistor	RTG1210HR500FTG	500mR/1210/1%	1
chip resistor	1210W2F500LT5E	500mR/1210/1%	1
chip resistor	RBR-1210UR500FT	500mR/1210/1%	1
chip resistor	RLM25FEER005	5mR/2512/1%/2W	1
chip resistor	WR06X7500FTL	750R/0603/1%	1

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power board 1

Material name	Specifications and models	Quantity	Position
SMD resistor	0805-20Ω±5%	2	R23 R25
SMD resistor	0805-2Ω±5%	1	R9
SMD resistor	0805-820Ω±5%	1	R18
SMD resistor	0805-1K±5%	6	R5 R6 R11 R13 R29 R30
SMD resistor	0805-4.7K±5%	6	R15-R17 R20 R24 R26
SMD resistor	0805-10K±5%	2	R14 R28
SMD resistor	0805-47K±5%	1	R19
SMD resistor	0805-665Ω±1%	1	R22
SMD resistor	0805-5.11K±1%	3	R12 R27 R31
SMD resistor	0805-16.2K±1%	1	R8
SMD resistor	0805-82K±1%	1	R7
SMD resistor	0805-86.6K±1%	1	R10
SMD capacitor	0603-C0G-2.7P-50V±5%	1	C13
SMD capacitor	0603-X5R-105-25V±10%	1	C14
SMD capacitor	0805-X7R-102-50V±10%	7	C1 C8 C11 C12 C16 C20 C22
SMD capacitor	0805-X7R-104-50V±10%	4	C6 C21 C23 C24
SMD inductor	47uH	1	L1
Surface Mount Voltage Regulator Diode	5.6V/0.5W SOD-123	1	VD1
SMD diode tube	1N4148W SOD-123	2	D3 D4
SMD diode tube	DSS110 SOD-123	2	D1 D2
SMD transistor	MMBT5401 SOT-23	1	Q1
SMD transistor	MMBT5551 SOT-23	4	Q2-Q5
SMD IC	SC92F7421M16U SOP16	1	U4
SMD IC	AP1704A SOP8	1	U1
SMD IC	JR-AKBLE	1	U3
SMD crystal oscillator	24MHz	1	Y1
Electrolytic capacitor	10uF/50V-105°C±20%4×7	1	C10
Electrolytic capacitor	100uF/16V-105°C±20%5×11	1	C9
Buzzer	B1407-0540PA7.6	1	BUZ1
Socket terminal	PH-2A	1	J1
Socket terminal	PH-2A/Red	1	J5
Socket terminal	PH-4A	1	J4
Socket terminal	XHS-2A/Red	1	J6
Socket terminal	XHS-2A/Blue	1	J7
Socket terminal	XHS-6A	1	J3

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display board 1

Material name	Specifications and models	Quantity	Position
SMD resistor	0603-220Ω±5%	7	R1-R7
SMD resistor	0603-1K±5%	2	R8 R9
SMD capacitor	0603-C0G-101-50V±5 %	2	C2 C3
SMD capacitor	0603-X7R-104-50V±10%	1	C4
SMD diode tube	1N4148W SOD-123	4	D1-D4
SMD IC	SC92F7351M16U SOP16	1	U2
Electrolytic capacitor	47uF/16V-105°C±20% 4×7	1	C5
Bend socket terminal	PH-4AW	1	J2
Tap the button lightly	6*6*8.5 with cap 6*1	4	S1-S4
Digital tube	LN3314AW-JR-M	1	DS1

LED 1 PCB

Material name	Specifications and models	Quantity	Position
SMT LED beads	5730 white Lot NO: WCMSA05W-8L754	7	LO1--L07
Surface Mount Field Effect Transistor	AO3400 SOT-23	1	Q1
SMD diode tube	5V1Z W8 SOD-123	1	ZD1
SMD resistor	0R-5%-1206	1	JP1
SMD resistor	4.7K-5%-1206	3	R1--R3
SMD resistor	6.8K-5%-1206	1	R4
SMD resistor	10K-5%-0805	2	R5,R7
SMD capacitor	1UF/50V-10%-0805	1	C1
connecting terminal	PH-2A	1	J1

Hall Effect Light Switch Board_2

Material name	Specifications and models	Quantity	Position
circuit board	JR-AKLDK2	1	
SMD resistor	0805-1K±5%	2	R5 R7
SMD capacitor	0805-X5R-105-50V±10%	1	C1
Surface mount voltage regulator diode	SOD123-5.1V/0.5W	1	ZD1
SMD Transistor	4401	1	Q1
Surface-mount Hall-effect sensor	60248	1	U1
Surface mount socket	PH2.0-2AB	2	J1 J2

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CR90				
Compressor_BSA057NCVV				
No.	product name	product model	Version/Parameter	bit number
1	MCU	SPC5L18BNL4/SY8948 NB	SPC5L18BNL4/SY8948NB	U1
2	MCU	SY8948N/SPC5L32A	SY8948N/SPC5L32A(NLQFN-48)	U1
3	IC	TD1507TR(TO-252)	TD1507TR(TO-252)	U3
4	MOS	MCU20N06C	MCU20N06C (TO-252)	D16
5	MOS	NCE6020AK	NCE6020AK (TO-252)	D16
6	MOS	SVG076R5NDTR	SVG076R5NDTR (TO-252)	V2,V3,V4,V5,V6,V7,V8
7	MOS	VS6622AD	VS6622AD	D16
8	MOS	WTR06N300LS	WTR06N300LS	D16
9	Through-Hole Inductor	KPKU0810JB501-S036	0.47mH/1A/8*10	L4
10	Through-Hole Electrolytic Capacitor	ERE1VM102W20OT	1000uF/35V/12.5*20/4000H	C1,C12
11	Through-Hole Electrolytic Capacitor	ERF1CM221E110T	220uF/16V(6.3*11)	C19
12	Through-Hole Electrolytic Capacitor	GF1C221ME110A00CE0	220uF/16V(6.3*12)	C19
13	Through-Hole Electrolytic Capacitor	GF1J470ME110A00CE0	47uF/63V(6.3*11.5)105°/2000H	C30
14	Through-Hole Electrolytic Capacitor	ERR1JM470E12OT	47uF/63V(6.3*12)2000H	C30
15	Transient Voltage Suppressor Diode	1.5KE47CA	1.5KE47CA (JJW)	D9
16	Transient Voltage Suppressor Diode	1.5KE47CAL	1.5KE47CAL	D9
17	Diode	1N4007WS	1N4007WS(SOD-323)	D11,D13,D14

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18	Diode	1N4148WS	1N4148WS(SOD-323)	D11,D13,D14
19	Diode	BAV99	BAV99 (SOT23)	D3,D4
20	Diode	BZT52C15	BZT52C15 (SOD-123)	Z2
21	Diode	WR-PB2012UG-U1A-AO	LED emerald green 0805	D17
22	Diode	MM1Z15	MM1Z15 (SOD-123)	Z2
23	Surface Mount Diode	SS24(DO-214AC)	SS24(DO-214AC)	D10,D15
24	Surface Mount Thermistor	SDNT2012X103J3450H TF	NTC3450/10K(0805 R/5%)	R57
25	Transistor	MMBT5401	MMBT5401(SOT23)	Q3
26	Transistor	MMBT5551	MMBT5551(SOT23)	Q2,Q4
27	Transistor	MMBT5551	MMBT5551 (SOT23)	Q2,Q4
28	Chip Inductor	KNR6045MT101	KNR6045MT-101M(6.0*6.0*4.5)	L2
29	Transistor	0603CG101J500NT	101/0603/50V/NPO	C23
30	Transistor	0603B102K500NT	102/0603/50V/X7R	C29
31	Transistor	0603B103K500NT	103/0603/50V/X7R	C18,C24,C27,C36,C28
32	Transistor	0603B104K500NT	104/0603/50V/X7R	C14,C15,C17,C20,C32,C33,C34,C35,C37,C38,C41,C53,C54,C16,C31
33	Transistor	CL21A106KAYNNNE	106/0805/25V/X5R	C21,C22,C25,C26,C13
34	Surface Mount Resistor	WR06X1003FTL	100K/0603/1%	R6,R9,R10,R17,R18,R19,R24,R25,R30,R31,R35,R36,R43,R44,R53,R59
35	Surface Mount Resistor	WR06X1000FTL	100R/0603/1%	R42
36	Surface Mount Resistor	WR06X1002FTL	10K/0603/1%	R23,R27,R28,R33,R39,R49,R5

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				0,R51,R56,R58, R62
37	Surface Mount Resistor	WR06X1302FTL	13K/0603/1%	R26
38	Surface Mount Resistor	WR06X1001FTL	1K/0603/1%	R38,R54,R63
39	Surface Mount Resistor	WR06X1501FTL	1K5/0603/1%	R29
40	Surface Mount Resistor	WR06X2000FTL	200R/0603/1%	R37,R41
41	Surface Mount Resistor	WR06X2002FTL	20K/0603/1%	R40
42	Surface Mount Resistor	WR06X2200FTL	220R/0603/1%	R46
43	Surface Mount Resistor	WR06X220 JTL	22R/0603/5%	R32
44	Surface Mount Resistor	WR06X2001FTL	2K/0603/1%	R34
45	Surface Mount Resistor	WR06X47R0FTL	47R/0603/1%	R3,R4,R5,R11, R12,R13
46	Surface Mount Resistor	RTG1210HR500FTG	500mR/1210/1%	R48
47	Surface Mount Resistor	1210W2F500LT5E	500mR/1210/1%	R48
48	Surface Mount Resistor	RBR-1210UR500FT	500mR/1210/1%	R48
49	Surface Mount Resistor	WR06X5101FTL	5K1/0603/1%	R47,R52,R55
50	Current Sensing Resistor	RLM25FEER005	5mR/2512/1%/2W	R22
51	Surface Mount Resistor	WR06X7500FTL	750R/0603/1%	R45

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power board 5

Material name	Specifications and models	Quantity	Position
SMD resistor	0805-20Ω±5%	2	R23 R25
SMD resistor	0805-2Ω±5%	1	R9
SMD resistor	0805-820Ω±5%	1	R18
SMD resistor	0805-1K±5%	6	R5 R6 R11 R13 R29 R30
SMD resistor	0805-4.7K±5%	6	R15-R17 R20 R24 R26
SMD resistor	0805-10K±5%	2	R14 R28
SMD resistor	0805-47K±5%	1	R19
SMD resistor	0805-665Ω±1%	1	R22
SMD resistor	0805-5.11K±1%	3	R12 R27 R31
SMD resistor	0805-16.2K±1%	1	R8
SMD resistor	0805-82K±1%	1	R7
SMD resistor	0805-86.6K±1%	1	R10
SMD capacitor	0603-C0G-2.7P-50V±5%	1	C13
SMD capacitor	0603-X5R-105-25V±10%	1	C14
SMD capacitor	0805-X7R-102-50V±10%	7	C1 C8 C11 C12 C16 C20 C22
SMD capacitor	0805-X7R-104-50V±10%	4	C6 C21 C23 C24
SMD inductor	47uH	1	L1
Surface Mount Voltage Regulator Diode	5.6V/0.5W SOD-123	1	VD1
SMD diode tube	1N4148W SOD-123	2	D3 D4
SMD diode tube	DSS110 SOD-123	2	D1 D2
SMD transistor	MMBT5401 SOT-23	1	Q1
SMD transistor	MMBT5551 SOT-23	4	Q2-Q5
SMD IC	SC92F7421M16U SOP16	1	U4
SMD IC	AP1704A SOP8	1	U1
SMD IC	JR-AKBLE	1	U3
SMD crystal oscillator	24MHz	1	Y1

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Electrolytic capacitor	10uF/50V-105°C ±20%4×7	1	C10
Electrolytic capacitor	100uF/16V-105°C ±20%5×11	1	C9
Buzzer	B1407-0540PA7.6	1	BUZ1
Socket terminal	PH-2A	1	J1
Socket terminal	PH-2A/Red	1	J5
Socket terminal	PH-4A	1	J4
Socket terminal	XHS-2A/Red	1	J6
Socket terminal	XHS-2A/Blue	1	J7
Socket terminal	XHS-6A	1	J3

display board 5

Material name	Specifications and models	Quantity	Position
SMD resistor	0603-220Ω±5%	7	R1-R7
SMD resistor	0603-1K±5%	2	R8 R9
SMD capacitor	0603-C0G-101-50V±5 %	2	C2 C3
SMD capacitor	0603-X7R-104-50V±10%	1	C4
SMD diode tube	1N4148W SOD-123	4	D1-D4
SMD IC	SC92F7351M16U SOP16	1	U2
Electrolytic capacitor	47uF/16V-105°C±20% 4×7	1	C5
Bend socket terminal	PH-4AW	1	J2
Tap the button lightly	6*6*8.5 with cap 6*1	4	S1-S4
Digital tube	LN3314AW-JR-M	1	DS1

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LED 1 PCB

Material name	Specifications and models	Quantity	Position
SMT LED beads	5730 white Lot NO: WCMSA05W-8L754	7	LO1--L07
Surface Mount Field Effect Transistor	AO3400 SOT-23	1	Q1
SMD diode tube	5V1Z W8 SOD-123	1	ZD1
SMD resistor	0R-5%-1206	1	JP1
SMD resistor	4.7K-5%-1206	3	R1--R3
SMD resistor	6.8K-5%-1206	1	R4
SMD resistor	10K-5%-0805	2	R5,R7
SMD capacitor	1UF/50V-10%-0805	1	C1
connecting terminal	PH-2A	1	J1

Hall Effect Light Switch Board_1

Material name	Specifications and models	Quantity	Position
circuit board	HMJD-CZBX015Q2-3	1	
SMD capacitor	H-0603-50V-104-±10%-X7R	2	C1,C2
SMD resistor	H-0603-10K-±5%-1/10W	1	R2
SMD resistor	H-0603-5K1-±5%-1/10W	1	R3
Surface mount voltage regulator diode	H-0.5W-5V1-MM1Z5V1(SOD-123)	1	ZD1
hall sensor	H-CC6207MST(SOT23-3)	1	IC1
hall sensor	H-CC6207EST(SOT23-3)	1	IC1
SMD field-effect transistor	H-30V-5.8A-AO3400(SOT-23)	1	Q1
SMT needle holder	H-PH	2	CN1,CN2

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CR90X

Compressor_ ZH52Y

No.	Product Name	Product Model	Version / Parameters	Reference Designator
1	MCU	SPC5L18BNL4/SY8948NB	SPC5L18BNL4/SY8948NB	
2	MCU	SY8948N/SPC5L32A	SY8948N/SPC5L32A(NLQFN-48)	U1
3	IC	TD1507TR(TO-252)	TD1507TR(TO-252)	U3
4	Field-Effect Transistor (MOSFET)	BLP065N08G-D	BLP065N08G-D (TO-252)	V2,V3,V4,V5,V6,V7,V8
5	MOS	MCU20N06C	MCU20N06C (TO-252)	D16
6	MOS	NCE6020AK	NCE6020AK (TO-252)	D16
7	MOS	SVG076R5NDTR	SVG076R5NDTR (TO-252)	V2,V3,V4,V5,V6,V7,V8
8	MOS	VS6622AD	VS6622AD	D16
9	MOS	WTR06N300LS	WTR06N300LS	D16
12	Through-Hole Inductor	KPKU0810JB501-S036	0.47mH/1A/8*10	L4
13	Through-Hole Electrolytic Capacitor	ERE1VM102W20OT	1000uF/35V/12.5*20/4000H	C1,C12
14	Through-Hole Electrolytic Capacitor	8102LEMAB20LE N91E0	1000uF/35V/12.5*20/5000H	C1,C12
15	Through-Hole Electrolytic Capacitor	ERF1CM221E11OT	220uF/16V(6.3*11)	C19
16	Through-Hole Electrolytic Capacitor	GF1C221ME110A00CE0	220uF/16V(6.3*12)	C19
17	Through-Hole Electrolytic Capacitor	GF1J470ME110A00CE0	47uF/63V(6.3*11.5)105°/2000H	C30
18	Through-Hole Electrolytic Capacitor	ERR1JM470E12OT	47uF/63V(6.3*12)2000H	C30
19	Through-Hole Electrolytic Capacitor	8470LGMAA12LYN91E0	47uf/63V/6.3*12/5000H	C30

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20	TVS	1.5KE47CA	1.5KE47CA	D9
21	TVS	1.5KE47CAL	1.5KE47CAL	D9
22	Diode	1N4007WS	1N4007WS(SOD-323)	D11,D13,D14
23	Diode	1N4148WS	1N4148WS(SOD-323)	D11,D13,D14
24	Diode	BAV99	BAV99 (SOT23)	D3,D4
25	Diode	BZT52C15	BZT52C15 (SOD-123)	Z2
26	Diode	WR-PB2012UG-U1A-AO	LED emerald green0805	D17
27	Diode	MM1Z15	MM1Z15 (SOD-123)	Z2
28	Surface Mount Diode	SS24(DO-214AC)	SS24(DO-214AC)	D10,D15
37	Surface Mount Thermistor	SDNT2012X103J3450HTF	NTC3450/10K(0805R/5%)	R57
38	Transistor	MMBT5401	MMBT5401(SOT23)	Q3
39	Transistor	MMBT5551	MMBT5551(SOT23)	Q2,Q4
40	Transistor	MMBT5551	MMBT5551 (SOT23)	Q2,Q4
43	Surface Mount Inductor	KNR6045MT101	KNR6045MT-101M(6.0*6.0*4.5)	L2
44	Surface Mount Capacitor	0603CG101J500NT	101/0603/50V/NPO	C23
45	Surface Mount Capacitor	0603B102K500NT	102/0603/50V/X7R	C29
46	Surface Mount Capacitor	0603B103K500NT	103/0603/50V/X7R	C18,C24,C27,C36,C28
47	Surface Mount Capacitor	0603B104K500NT	104/0603/50V/X7R	C14,C15,C17,C20,C32,C33,C34,C35,C37,C38,C41,C53,C54,C16,C31
48	Surface Mount Capacitor	CL21A106KAYNNNE	106/0805/25V/X5R	C21,C22,C25,C26,C13
49	Surface Mount Resistor	WR06X1003FTL	100K/0603/1%	R6,R9,R10,R17,R18,R19,R24,R25,R30,R31,R35,R36,R43,R44,R53,R59
50	Surface Mount Resistor	WR06X1000FTL	100R/0603/1%	R42
51	Surface Mount Resistor	WR06X1002FTL	10K/0603/1%	R23,R27,R28,R33,R39,R49,R50,R51,R56,R58,R62

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52	Surface Mount Resistor	WR06X1302FTL	13K/0603/1%	R26
53	Surface Mount Resistor	WR06X1001FTL	1K/0603/1%	R38,R54,R63
54	Surface Mount Resistor	WR06X1501FTL	1K5/0603/1%	R29
55	Surface Mount Resistor	WR06X2000FTL	200R/0603/1%	R37,R41
56	Surface Mount Resistor	WR06X2002FTL	20K/0603/1%	R40
57	Surface Mount Resistor	WR06X2200FTL	220R/0603/1%	R46
58	Surface Mount Resistor	WR06X220 JTL	22R/0603/5%	R32
59	Surface Mount Resistor	WR06X2001FTL	2K/0603/1%	R34
60	Surface Mount Resistor	WR06X47R0FTL	47R/0603/1%	R3,R4,R5,R11,R12,R13
61	Surface Mount Resistor	1210W2F500LT5 E	500mR/1210/1%	R48
62	Surface Mount Resistor	RBR-1210UR500FT	500mR/1210/1%	R48
63	Surface Mount Resistor	RTG1210HR500 FTG	500mR/1210/1%	R48
64	Surface Mount Resistor	WR06X5101FTL	5K1/0603/1%	R47,R52,R55
65	Current Sensing Resistor	RLM25FEER005	5mR/2512/1%/2W	R22
66	Surface Mount Resistor	WR06X7500FTL	750R/0603/1%	R45

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power board 4

Material name	Specifications and models	Quantity	Position
Buzzer	ZL-YDW1207N-4005PA-7.5S	1	BUZ1
Connector seat	PH,2P,white	1	CN3
Connector seat	PH,2P,red	1	CN2
Connector seat	PH,4P,white	1	CN5
Connector seat	XH,2P,red	1	CN6
Connector seat	XH,2P,blue	1	CN4
Connector seat	XHD,6P,white	1	CN1
Electrolytic capacitor	100uF,16V	2	EC1,EC3
Electrolytic capacitor	47uF,50V	1	EC2
Wire wound resistance	2WS,51Ω	1	RF1
communication IC	ST17H66B2	1	U3
SMD crystal	16.000MHz	1	X1
SMD resistor	0603,101 (100Ω)	4	R1,R2,R3,R37
SMD resistor	0603,102 (1KΩ)	8	R11,R12,R13,R14, R15,R16,R17,R29
SMD resistor	0603,103 (10KΩ)	7	R31,R32,R33,R34, R35,R36,R38
SMD resistor	0603,203 (20KΩ)	1	R41
SMD resistor	0603,471 (470Ω)	1	R4
SMD resistor	0603,472 (4.7KΩ)	2	R21,R22
SMD resistor	0603,473 (47KΩ)	1	R45
SMD resistor	0603,510 (51Ω)	1	R46
SMD resistor	0603,821 (820Ω)	1	R6
SMD resistor	0603,5101 (5.1KΩ)	3	R25,R26,R28
SMD resistor	0603,8662 (86.6KΩ)	1	R27
SMD resistor	0603,6800 (680Ω)	1	R5
SMD capacitor	0603,102,50V	4	C12,C13,C14,C15
SMD capacitor	0603,104,50V	8	C20,C1,C2,C5,C8, C9,C10,C11
SMD capacitor	0603,106,10V	2	C3,C4
SMD switch diode	D_mmSD4148	1	D2
SMD Schottky diode	SS34	1	D1

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SMT transistor	mmBT5401	1	Q5
SMT transistor	mmBT5551-B	5	Q3,Q4,Q6,Q7,Q9
SMD MOS	2SK3018	2	Q1,Q2
Surface mount voltage stabilization IC	78D05L	1	U1
Surface mount voltage stabilization IC	CE6301A33M1	1	U2
SMD IC_MCU	SC95R503M	1	IC1
PCB	PCB,95*22*1.6mm,FR-4	1	

display board 4

Material name	Specifications and models	Quantity	Position
Connector seat	PH,4P,white	1	CN1
Pushbutton switch	6*6*9mm	4	KEY1-KEY4
Digital tube	CLTD-3312AW-3.5-P	2	DIG1,DIG2
SMD resistor	0603,510 (51Ω)	2	R5,R6
SMD resistor	0603,0Ω	2	RJ1,RJ4
SMD resistor	0603,331 (330Ω)	7	R7-R13
SMD resistor	0603,102 (1KΩ)	4	R1-R4
SMD capacitor	0603,104,50V	1	C1
Electrolytic capacitor	100uF,16V	1	EC1
SMD LED light	0805	1	LED1
SMD IC_MCU	SC92F7422	1	U1
PCB	PCB,170*12*1.6mm,FR-4	1	

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LED 1 PCB

Material name	Specifications and models	Quantity	Position
SMT LED beads	5730 white Lot NO: WCMSA05W-8L754	7	LO1--L07
Surface Mount Field Effect Transistor	AO3400 SOT-23	1	Q1
SMD diode tube	5V1Z W8 SOD-123	1	ZD1
SMD resistor	0R-5%-1206	1	JP1
SMD resistor	4.7K-5%-1206	3	R1--R3
SMD resistor	6.8K-5%-1206	1	R4
SMD resistor	10K-5%-0805	2	R5,R7
SMD capacitor	1UF/50V-10%-0805	1	C1
connecting terminal	PH-2A	1	J1

Hall Effect Light Switch Board_2

Material name	Specifications and models	Quantity	Position
circuit board	JR-AKLDK2	1	
SMD resistor	0805-1K±5%	2	R5 R7
SMD capacitor	0805-X5R-105-50V±10%	1	C1
Surface mount voltage regulator diode	SOD123-5.1V/0.5W	1	ZD1
SMD Transistor	4401	1	Q1
Surface-mount Hall-effect sensor	60248	1	U1
Surface mount socket	PH2.0-2AB	2	J1 J2

Compressor

Material name	Specifications and models	Quantity	Position
Compressor	ZH35Y_DC12/24V_R600a	1	N/A
Compressor	DC43Y_DC12/24V_R600a	1	N/A
Compressor	ZH52Y_DC12/24V_R600a	1	N/A
Compressor	BSA025LCVV_12/24V_ R600a	1	N/A
Compressor	BSA057NCVV_12/24V_ R134a/R1234yf	1	N/A
Fan	BT-D12025H12M_DC12V/0.3A	1	N/A