



NSAI

ECE TYPE-APPROVAL CERTIFICATE



Concerning⁽²⁾:
Approval granted
~~Approval extended~~
~~Approval refused~~
~~Approval withdrawn~~
~~Production definitively discontinued~~

of a type of electrical/electronic sub-assembly⁽²⁾ with regard to Regulation No. 10

Approval No: **E24*10R06/03*7428*00**

1. Make (trade name of manufacturer): ***Colku***
2. Type and general commercial description: ***DCS150DA
RV REFRIGERATOR***
3. Means of identification of type, if marked on the ~~vehicle/component/separate technical unit~~⁽²⁾ ***Refer to versions***
- 3.1 Location of that marking: ***Rating plate affixed to the housing***
4. Category of vehicle: ***N/A***
5. Name and address of manufacturer: ***Foshan Sanshui Colku Electrical
Appliance Limited
No.84, Area B, Central Technology Industry
Park, Sanshui District, Foshan City,
Guangdong Province, China***
6. In the case of components and separate technical units, location and method of affixing of the approval mark: ***Rating plate affixed to the housing***
7. Address(es) of assembly plant(s): ***Foshan Sanshui Colku Electrical
Appliance Limited
No.84, Area B, Central Technology Industry
Park, Sanshui District, Foshan City,
Guangdong Province, China***

(1) Distinguishing number of the country which has granted/extended/refused/withdrawn an approval (see approval provisions in the Regulation).
(2) Strike out what does not apply





NSAI

Approval No: E24*10R06/03*7428*00

8. Additional information (where applicable): *See appendix below*
9. Technical service responsible for carrying out the tests: *TÜV Rheinland Kraftfahrt GmbH
Am Grauen Stein,
51105 Cologne,
Germany*
10. Date of test report: *18.11.2025*
11. Number of test report: *85-R10-1552/25-00*
12. Remarks (if any): *See appendix below*
13. Place: *Dublin*
14. Date: *15th December, 2025*
15. Signature: 
16. The index to the information package lodged with the approval authority, which may be obtained on Request, is attached.
17. Reasons for extension: *N/A*



NSAI

Approval No: E24*10R06/03*7428*00

Appendix

Appendix to Type Approval Communication Form No E24*10R06/03*7428*00 Concerning the Type Approval of an Electrical/Electronic Sub-assembly under UN Regulation No. 10

1. Additional information
 - 1.1. Electrical system rated voltage: *DC 12V/24V pos/neg ground⁽¹⁾*
 - 1.2. This ESA can be used on any vehicle type with the following restrictions: *See manufacturer's specifications.*
 - 1.2.1 Installation conditions, if any: *See manufacturer's specifications.*
 - 1.3. This ESA can be used only on the following vehicle types: *N/A*
 - 1.3.1 Installation conditions, if any: *N/A*
 - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from Annex 9): *N/A*
 - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: *TÜV Rheinland Kraftfahrt GmbH*
2. Remarks: *N/A*

⁽¹⁾ Strike out what does not apply



NSAI

Approval No: E24*10R06/03*7428*00

Index to the Information Package

Date of issue:	<i>15th December, 2025</i>
Date of latest amendment:	<i>N/A</i>
Reason for extension/revision:	<i>N/A</i>
1. Additional conditions, and advisory notes on legal alternatives.	
2. Test report(s)	
- numbers(s):	<i>85-R10-1552/25-00</i>
- date of issue:	<i>18.11.2025</i>
- date of latest amendment:	<i>N/A</i>
3. Information document	
- number(s):	<i>IF-Colku-DCS150DA-00</i>
- date of issue:	<i>10.09.2025</i>
- date of latest amendment:	<i>N/A</i>
Documentation:	<i>47 pages</i>





NSAI

Approval No: E24*10R06/03*7428*00

Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
2. Each device from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
3. Changes in the type are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
4. At regular intervals, any tests or associated checks prescribed by the applicable legislation to verify continued conformity with the approved type shall be carried out. The manufacturer shall demonstrate compliance with this by submitting to NSAI evidence of adequate arrangements and documented control plans for each type approved.
5. Any set of samples or test pieces showing evidence of non-conformity shall give rise to further sampling and testing and all steps shall be taken to restore conformity of production.
6. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B: Legal Options:

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.



Type : DCS150DA
Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

TEST REPORT

according to UN-Regulation

**Uniform provisions concerning the approval of vehicles
with regard to electromagnetic compatibility**

UN-Regulation No. 10

including all amendments until
Amendment 06, supplement 3

Approval Status

~~EU~~/UN-Type approval : E24*10R06/03*7428*00 (Reserved)

Structure of the Test Report

Item No.

0. General information
 1. Tested vehicle(s) / object(s)
 2. Test record
 3. Appendices
 4. Statement of conformity
-

The Test Report shall be reproduced and published only in its entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.



Type : DCS150DA
Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

0. General information

- 0.1. Make (trade name of the manufacturer) : Colku
- 0.2. Type : DCS150DA
 Version(s) : 1. DCR75DA, 2. DCR60DA, 3. DCR80DA,
 4. DCR105DA, 5. DCS90DA, 6. DCS130DA,
 7. DCS150DA, 8. DCR50DA, 9. DCR50A,
 10. DCR75A, 11. DCR60A, 12. DCR80A,
 13. DCR105A, 14. DCS90A, 15. DCS130A,
 16. DCS150A, 17. DCS80DV, 18. DCR50BD,
 19. DCR50DY, 20. MR-43, 21. DCR75BD,
 22. DCR75DY, 23. DCR60DY, 24. DCR60BD,
 25. DCR80DY, 26. DCR80BD, 27. DCR105DY,
 28. DCR105BD, 29. MR-90SL, 30. DCS90DY,
 31. DCS90BD, 32. DCS130DY, 33. MR-130SL,
 34. DCS150BD, 35. MR-150SL, 36. MR-80SLS
- 0.3. Category of vehicle : Not applicable
- 0.4. Name and address of the manufacturer : Foshan Sanshui Colku Electrical Appliance Limited
 No.84, Area B, Central Technology Industry Park, Sanshui District, Foshan City, Guangdong Province, China
- 0.5. No. of the Information folder : IF-Colku-DCS150DA-00
 - Date of issue : September 10, 2025
 - Date of last change : Not applicable

1. Tested ~~vehicle(s)~~/ object(s)

- 1.1. Description
- 1.1.1. ~~Vehicle~~/ object
 Trade name : Colku
 Type(s) /variant(s) /version(s) : DCS150DA / --- / 7. DCS150DA
 Identification number : Not applicable
- 1.1.2. Condition of ~~vehicle(s)~~/object(s) : New/~~used~~/~~pretested~~

Type : DCS150DA
Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

- 1.2. Worst case configuration : ~~Only one variant/version, so no worst case assessment required.~~
~~There is no worst case selection applicable because all versions mentioned in the information folder are tested.~~
~~Based on the pre-test result / simulation analysis / WCC discussion record.~~
~~-Document no. and date:~~
The version DCS150D is selected to test because the power of version 7 is maximum and all the versions are the same except the model name, product sizes, control mode, power and capacities.
- 1.3. Remark : ---



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

2. Test record

- 2.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements. Please see Appendix 2.
- 2.1.1. Specifications for the test site : Not applicable
- 2.1.2. Subcontracting : Not applicable
- 2.2. Test results
- Remark concerning extension : ~~The component type has been tested according to the modification(s) mentioned in appendix 0.~~
 The new parts meet the requirements of the regulation.
 An actual practical test of the object was not necessary. The results of the previous test(s) are still valid.
- 2.2.1. Test results referring to measurement
- 2.2.1.1. General requirements : All general requirements are met.
 (Test data see Appendix 1)
- 2.2.1.2. Test results – radiated narrowband electromagnetic emissions : The requirements of the standards are met.
 (Test data see Appendix 1)
- 2.2.1.3. Test results – radiated broadband electromagnetic emissions : The requirements of the standards are met.
 (Test data see Appendix 1)
- 2.2.1.4. Test results – Immunity to electromagnetic radiation : Not applicable
- 2.2.1.5. Test results – conducted Emission : Not applicable
- 2.2.1.6. Test results – immunity to conducted Transients : Not applicable
- 2.2.2. Test results of not measurable attributes : Not applicable
- 2.2.3. Alternative test methods : Not applicable



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.
- Test site : TÜV Rheinland (Guangdong) Co., Ltd. EMC Laboratory
 No.102, 1F of Southwest Warehouse Building, No.767
 TianYuan Road, Tianhe District, Guangzhou, P.R.China.
- Test date : November 04-07, 2025
- 2.4. Remarks : Not applicable

3. Appendices

- Appendix L : Technical information about the electrical/electronic sub-assembly (ESA) according to Annex 3B for the communication concerning the UN-type approval
- Appendix 0 : List of modifications
- Appendix 1 : Test protocol
- Appendix 2 : List of equipments
- Information folder No. : IF-Colku-DCS150DA-00

4. Statement of conformity

The Information Document listed in section 0.5., and the type described therein, comply with the requirements stated on page 1.

The test results in this report refer to the ~~vehicle(s)~~/object(s) described under section 1.1.

With regards to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.2).

Engineering Centre Shanghai, November 18, 2025
 JZ / EH



Jennifer Zhang
 Technical Expert Technical Service

Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Technical information about the electrical/electronic sub-assembly(ESA) according to Annex 3B for the communication concerning the UN-type approval

APPENDIX L

1. Make (trade name of manufacturer) : Colku
2. Type and general commercial description(s) : DCS150DA
 Commercial description(s) : RV REFRIGERATOR
 Version(s) : 1. DCR75DA, 2. DCR60DA, 3. DCR80DA,
 4. DCR105DA, 5. DCS90DA, 6. DCS130DA,
 7. DCS150DA 8. DCR50DA 9. DCS80DV,
 10. DCR75A, 11. DCR60A, 12. DCR80A,
 13. DCR105A, 14. DCS90A, 15. DCS130A,
 16. DCS150A, 17. DCR50A, 18. DCR50BD,
 19. DCR50DY, 20. MR-43, 21. DCR75BD,
 22. DCR75DY, 23. DCR60DY, 24. DCR60BD,
 25. DCR80DY, 26. DCR80BD 27. DCR105DY,
 28. DCR105BD, 29. MR-90SL, 30. DCS90DY,
 31. DCS90BD, 32. DCS130DY, 33. MR-130SL,
 34. DCS150BD, 35. MR-150SL, 36. MR-80SLS
3. Means of identification of type, if marked on the ~~vehicle~~/component/
~~separate technical unit~~ ⁽²⁾ : Refer to versions
- 3.1. Location of that marking : Rating plate affixed to the housing
4. Category of vehicle : Not applicable
5. Name and address of manufacturer : Foshan Sanshui Colku Electrical Appliance Limited
 No.84, Area B, Central Technology Industry Park, Sanshui District, Foshan City, Guangdong Province, China
6. In the case of components and separate technical units, location and method of affixing of the approval mark : Rating plate affixed to the housing
7. Address(es) of assembly plant(s) : Foshan Sanshui Colku Electrical Appliance Limited
 No.84, Area B, Central Technology Industry Park, Sanshui District, Foshan City, Guangdong Province, China
8. Additional information (where applicable) : See Appendix
9. Technical service responsible for carrying out the tests : TÜV Rheinland Krafftahrt GmbH
 Am Grauen Stein,
 51105 Cologne,
 Germany
10. Date of test report : November 18, 2025
11. Number of test report : 85-R10-1552/25-00



Type : DCS150DA
Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

- 12. Remarks (if any) : See Appendix
- 16. The index to the information package lodged with the Approval authority, which may be obtained on request, is attached
- 17. Reasons for extension : ---



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

**Appendix to type-approval communication form No. E24*10R06/03*7428*00
 concerning the type-approval of an electrical/electronic sub-assembly under Regulation No. 10**

1. Additional information
 - 1.1. Electrical system rated voltage : DC 12V/24V pos./neg. ground⁽²⁾
 - 1.2. This ESA can be used on any vehicle type with the following restrictions : No restrictions
 - 1.2.1. Installation conditions, if any : Directly connected to RV power supply
 - 1.3. This ESA can be used only on the following vehicle types : Not applicable
 - 1.3.1. Installation conditions, if any : Not applicable
 - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were (please specify precise method used from Annex 9) : Not applicable
 - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests : TÜV Rheinland (Guangdong) Co., Ltd. EMC Laboratory No.102, 1F of Southwest Warehouse Building, No.767 TianYuan Road, Tianhe District, Guangzhou, P.R.China.
2. Remarks :

Version 1-17: The difference lies in the consistency of material and function, with varying product sizes and capacities, while all other aspects are identical. And the version with suffix D is a dual-temperature and dual-control version, while the version without suffix D is a single-temperature control version.

Version 18-36:
 The difference lies in the fact that all models in this section are named by the customers, with inconsistent product dimensions and capacities, while the rest are completely identical.

Type : DCS150DA
Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

The power information for each model is shown in the table below:

Model difference as below table:									
Model	Volume	Input voltage	Input Power	Circuit board	Compressor	Controller	Fan	BT/WIFI	Refrigerant/Charger
DCS150DA	156L	DC 12V/24V	75w	All models are the same, but the circuit board shape are difference	DZ35M1P-B	LC25B-CMS	0.25A FSY12S12M	YES	R600a/26g
DCS150A									
DCS150BD									
MR-150SL									
DCS130DA	132L		75w						R600a/24g
DCS130A									
DCS130DY									
MR-130SL									
DCS90DA	90L		70w						R600a/20g
DCS90A									
DCS90DY									
MR-90SL									
DCS90BD									
DCR105DA	104L		70w						R600a/20g
DCR105A									
DCR105BD									
DCR105DY									
DCR75DA	72L		65w						R600a/20g
DCR75A									
DCR75BD									
DCR75DY									
DCR60DA	57L	70w	R600a/20g						
DCR60A									
DCR60DY									
DCR60BD									
DCR80DA	80L	70w	R600a/20g						
DCR80A									
DCR80DY									
DCR80BD									
DCS80DV	80L	70w	R600a/20g						
MR-80SLS									
DCR50DA	42.6L	60w	R600a/15g						
DCR50A									
DCR50DY									
DCR50BD									
MR-43									

(1) Distinguishing number of the country which has granted/extended/refused or withdrawn approval (see Regulation, provisions on approval).

(2) Strike out what does not apply.



Type : DCS150DA
Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---



Type : DCS150DA
Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Test protocol

Appendix 1

Test object

Trade name : Colku
Type(s) /variant(s) /version(s) : DCS150DA / --- / DCS150DA
Technical data of the tested object(s) type
Electrical system rated voltage : DC 12V/24V (negative ground)
This ESA can be used on any vehicle type with the following restrictions : No restrictions
Installation conditions : Directly connected to RV power supply
This ESA can be used on the following vehicle types : Not applicable
Installation conditions : Not applicable



Type : DCS150DA
Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Test results

1. Radiated narrow band / broadband electromagnetic emissions:

Antenna position : horizontal and vertical
Rated voltage : DC 12V/24V
Operation mode : On



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

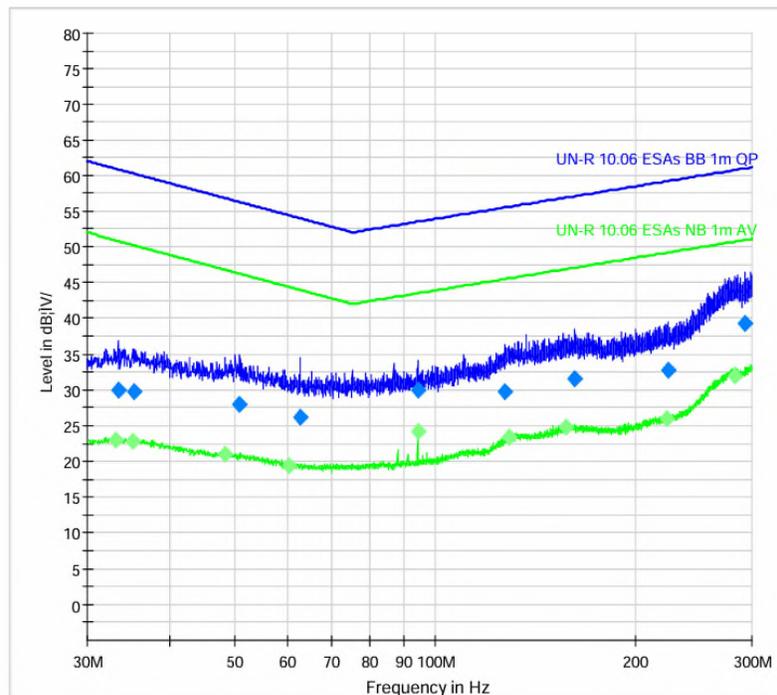
Horizontal Polarity and Vertical Polarity Test Result Diagram (Broadband&Narrow band)

EMC Test Record (Emission)

Common Information

Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited Co., Ltd.
Test Item:	RV REFRIGERATOR
Identification:	DCS150DA
Test Standard:	UN R10.06
Test Detail:	RE
Operation Mode:	On
Climate Condition:	22.1 degree, 58.7 %, 101 kPa
Test Voltage/ Freq:	DC 13.5V
Receipt No:	---
Report No:	---
Result:	Pass
Comment:	Test distance is 1m, Horizontal
Frequency Range:	30M-300MHz
Receiver:	TUV ESW8
Transducer:	TUV VHBB9124

Full Spectrum



 Preview Result 2H-AVG	 Preview Result 1H-PK+
 UN-R 10.06 ESAs BB 1m QP	 UN-R 10.06 ESAs NB 1m AV
 Final_Result QPK	 Final_Result AVG



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)
33.050000	---	23.03	50.94	27.91	1000.0	120.000	H	17.4
33.350000	29.86	---	60.85	30.99	1000.0	120.000	H	17.4
35.150000	---	22.88	50.27	27.39	1000.0	120.000	H	17.4
35.350000	29.71	---	60.21	30.50	1000.0	120.000	H	17.4
48.450000	---	20.93	46.77	25.84	1000.0	120.000	H	15.5
50.900000	27.99	---	56.23	28.24	1000.0	120.000	H	15.2
60.400000	---	19.47	44.36	24.89	1000.0	120.000	H	14.3
62.650000	26.21	---	53.96	27.75	1000.0	120.000	H	14.1
94.250000	29.90	---	53.50	23.60	1000.0	120.000	H	14.4
94.250000	---	24.14	43.50	19.36	1000.0	120.000	H	14.4
127.550000	29.82	---	55.49	25.67	1000.0	120.000	H	17.8
129.600000	---	23.41	45.59	22.18	1000.0	120.000	H	18.3
157.100000	---	24.82	46.86	22.04	1000.0	120.000	H	19.4
162.550000	31.48	---	57.08	25.60	1000.0	120.000	H	19.5
223.200000	---	25.89	49.17	23.28	1000.0	120.000	H	20.9
224.200000	32.78	---	59.20	26.42	1000.0	120.000	H	20.9
283.000000	---	32.01	50.73	18.72	1000.0	120.000	H	26.9
293.050000	39.34	---	60.96	21.62	1000.0	120.000	H	27.2

(continuation of the "Final_Result" table from column 14 ...)

Frequency (MHz)	Comment
33.050000	9:24:51 - 2025/11/5
33.350000	9:24:25 - 2025/11/5
35.150000	9:24:53 - 2025/11/5
35.350000	9:24:28 - 2025/11/5
48.450000	9:24:55 - 2025/11/5
50.900000	9:24:31 - 2025/11/5
60.400000	9:24:57 - 2025/11/5
62.650000	9:24:34 - 2025/11/5
94.250000	9:24:37 - 2025/11/5
94.250000	9:24:59 - 2025/11/5
127.550000	9:24:40 - 2025/11/5
129.600000	9:25:01 - 2025/11/5
157.100000	9:25:03 - 2025/11/5
162.550000	9:24:43 - 2025/11/5
223.200000	9:25:06 - 2025/11/5
224.200000	9:24:46 - 2025/11/5
283.000000	9:25:08 - 2025/11/5
293.050000	9:24:49 - 2025/11/5



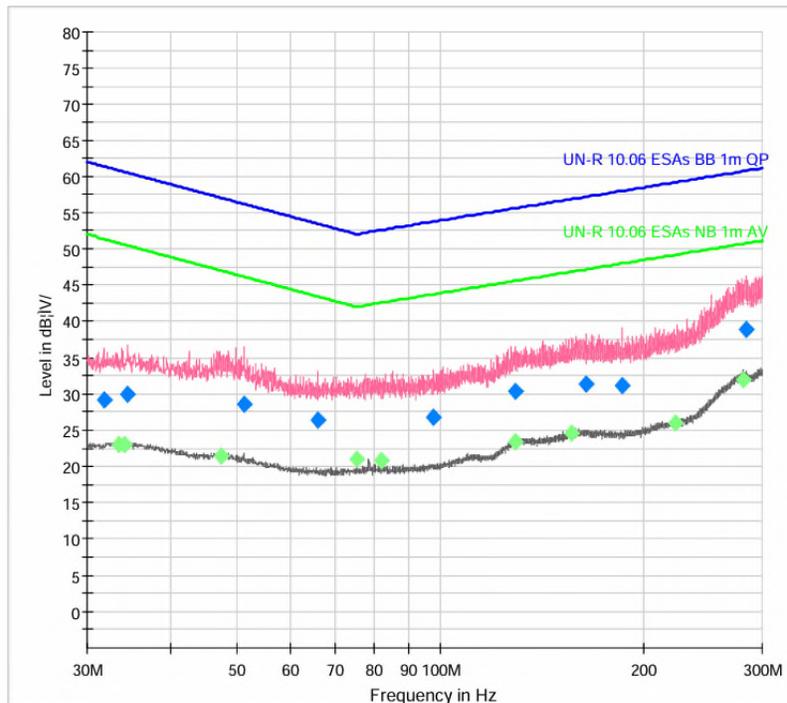
Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

EMC Test Record (Emission)

Common Information

Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited Co., Ltd.
Test Item:	RV REFRIGERATOR
Identification:	DCS150DA
Test Standard:	UN R10.06
Test Detail:	RE
Operation Mode:	On
Climate Condition:	22.1 degree, 58.7 %, 101 kPa
Test Voltage/ Freq:	DC 13.5V
Receipt No:	---
Report No:	---
Result:	Pass
Comment:	Test distance is 1m, Vertical
Frequency Range:	30M-300MHz
Receiver:	TUV ESW8
Transducer:	TUV VHBB9124

Full Spectrum



— Preview Result 2V-AVG	— Preview Result 1V-PK+
— UN-R 10.06 ESAs BB 1m QP	— UN-R 10.06 ESAs NB 1m AV
◆ Final_Result QPK	◆ Final_Result AVG



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)
31.750000	29.23	---	61.38	32.15	1000.0	120.000	V	17.1
33.500000	---	23.01	50.80	27.78	1000.0	120.000	V	17.4
34.150000	---	22.99	50.59	27.60	1000.0	120.000	V	17.4
34.400000	29.87	---	60.51	30.64	1000.0	120.000	V	17.4
47.450000	---	21.41	47.00	25.59	1000.0	120.000	V	15.7
51.250000	28.52	---	56.16	27.64	1000.0	120.000	V	15.2
65.950000	26.34	---	53.40	27.06	1000.0	120.000	V	13.9
75.350000	---	20.92	42.03	21.11	1000.0	120.000	V	13.8
81.650000	---	20.76	42.56	21.80	1000.0	120.000	V	13.9
97.950000	26.84	---	53.75	26.91	1000.0	120.000	V	14.7
129.350000	---	23.35	45.58	22.23	1000.0	120.000	V	18.2
129.450000	30.26	---	55.59	25.33	1000.0	120.000	V	18.2
157.050000	---	24.69	46.86	22.17	1000.0	120.000	V	19.4
164.700000	31.40	---	57.17	25.77	1000.0	120.000	V	19.5
185.950000	31.14	---	57.97	26.83	1000.0	120.000	V	19.4
223.350000	---	25.91	49.17	23.26	1000.0	120.000	V	20.9
280.800000	---	31.91	50.68	18.77	1000.0	120.000	V	26.9
283.750000	38.83	---	60.74	21.91	1000.0	120.000	V	26.9

(continuation of the "Final_Result" table from column 14 ...)

Frequency (MHz)	Comment
31.750000	9:31:15 - 2025/11/5
33.500000	9:31:41 - 2025/11/5
34.150000	9:31:43 - 2025/11/5
34.400000	9:31:18 - 2025/11/5
47.450000	9:31:45 - 2025/11/5
51.250000	9:31:21 - 2025/11/5
65.950000	9:31:24 - 2025/11/5
75.350000	9:31:47 - 2025/11/5
81.650000	9:31:49 - 2025/11/5
97.950000	9:31:27 - 2025/11/5
129.350000	9:31:50 - 2025/11/5
129.450000	9:31:30 - 2025/11/5
157.050000	9:31:52 - 2025/11/5
164.700000	9:31:33 - 2025/11/5
185.950000	9:31:36 - 2025/11/5
223.350000	9:31:54 - 2025/11/5
280.800000	9:31:56 - 2025/11/5
283.750000	9:31:39 - 2025/11/5



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

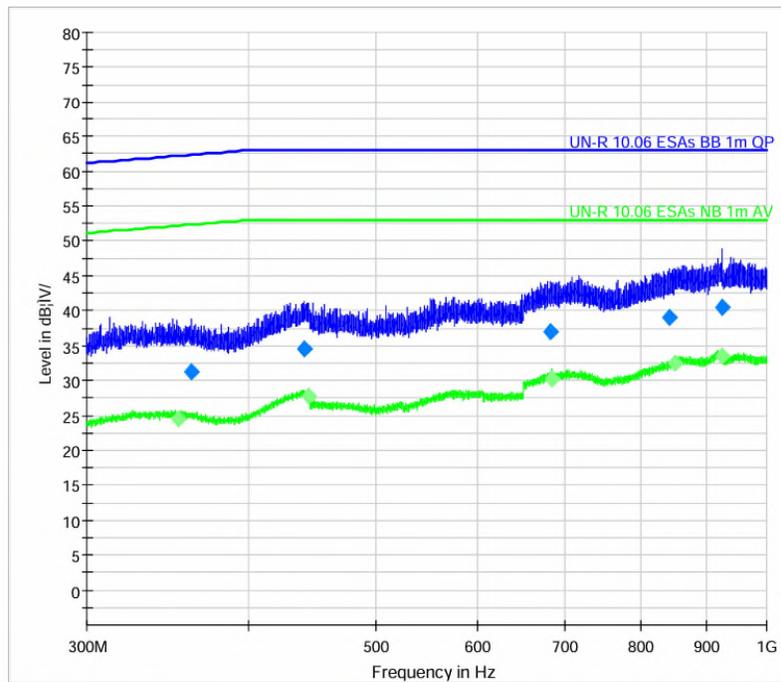
EMC Test Record (Emission)

Common Information

Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited Co., Ltd.
Test Item:	RV REFRIGERATOR
Identification:	DCS150DA
Test Standard:	UN R10.06
Test Detail:	RE
Operation Mode:	On
Climate Condition:	22.1 degree, 58.7 %, 101 kPa
Test Voltage/ Freq:	DC 13.5V
Receipt No:	---
Report No:	---
Result:	Pass
Comment:	Test distance is 1m, Horizontal

Subrange 1	
Frequency Range:	300M-1GHz
Receiver:	TUV ESW8
Transducer:	TUV VULP9118A

Full Spectrum



— Preview Result 2H-AVG	— Preview Result 1H-PK+
— UN-R 10.06 ESAs BB 1m QP	— UN-R 10.06 ESAs NB 1m AV
◆ Final_Result QPK	◆ Final_Result AVG



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)
353.050000	---	24.56	52.18	27.62	1000.0	120.000	H	19.3
360.650000	31.34	---	62.32	30.98	1000.0	120.000	H	19.2
441.400000	34.60	---	63.00	28.40	1000.0	120.000	H	21.6
444.100000	---	27.86	53.00	25.14	1000.0	120.000	H	21.7
682.300000	36.96	---	63.00	26.04	1000.0	120.000	H	25.1
683.850000	---	30.33	53.00	22.67	1000.0	120.000	H	25.1
841.700000	38.97	---	63.00	24.03	1000.0	120.000	H	26.9
849.350000	---	32.48	53.00	20.52	1000.0	120.000	H	27.1
923.900000	40.48	---	63.00	22.52	1000.0	120.000	H	27.6
924.350000	---	33.59	53.00	19.41	1000.0	120.000	H	27.6

(continuation of the "Final_Result" table from column 14 ...)

Frequency (MHz)	Comment
353.050000	9:08:17 - 2025/11/5
360.650000	9:08:04 - 2025/11/5
441.400000	9:08:07 - 2025/11/5
444.100000	9:08:19 - 2025/11/5
682.300000	9:08:10 - 2025/11/5
683.850000	9:08:21 - 2025/11/5
841.700000	9:08:13 - 2025/11/5
849.350000	9:08:23 - 2025/11/5
923.900000	9:08:15 - 2025/11/5
924.350000	9:08:25 - 2025/11/5



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

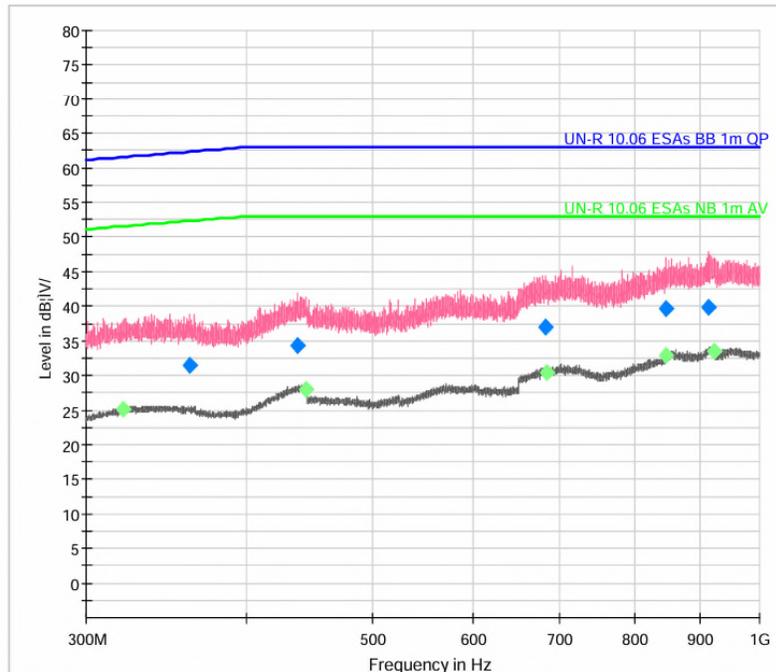
EMC Test Record (Emission)

Common Information

Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited Co., Ltd.
Test Item:	RV REFRIGERATOR
Identification:	DCS150DA
Test Standard:	UN R10.06
Test Detail:	RE
Operation Mode:	On
Climate Condition:	22.1 degree, 58.7 %, 101 kPa
Test Voltage/ Freq:	DC 13.5V
Receipt No:	---
Report No:	---
Result:	Pass
Comment:	Test distance is 1m, Vertical

Subrange 1	
Frequency Range:	300M-1GHz
Receiver:	TUV ESW8
Transducer:	TUV VULP9118A

Full Spectrum



— Preview Result 2V-AVG	— Preview Result 1V-PK+
— UN-R 10.06 ESAs BB 1m QP	— UN-R 10.06 ESAs NB 1m AV
◆ Final Result QPK	◆ Final Result AVG



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Final_Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Average (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)
320.750000	---	25.06	51.55	26.49	1000.0	120.000	V	19.4
361.150000	31.37	---	62.33	30.96	1000.0	120.000	V	19.2
437.800000	34.41	---	63.00	28.59	1000.0	120.000	V	21.4
444.700000	---	27.89	53.00	25.11	1000.0	120.000	V	21.7
682.550000	37.01	---	63.00	25.99	1000.0	120.000	V	25.1
684.400000	---	30.37	53.00	22.63	1000.0	120.000	V	25.1
845.700000	39.57	---	63.00	23.43	1000.0	120.000	V	27.0
846.900000	---	32.91	53.00	20.09	1000.0	120.000	V	27.1
912.200000	39.81	---	63.00	23.19	1000.0	120.000	V	27.3
923.150000	---	33.52	53.00	19.48	1000.0	120.000	V	27.6

(continuation of the "Final_Result" table from column 14 ...)

Frequency (MHz)	Comment
320.750000	9:15:55 - 2025/11/5
361.150000	9:15:42 - 2025/11/5
437.800000	9:15:45 - 2025/11/5
444.700000	9:15:58 - 2025/11/5
682.550000	9:15:48 - 2025/11/5
684.400000	9:16:00 - 2025/11/5
845.700000	9:15:50 - 2025/11/5
846.900000	9:16:02 - 2025/11/5
912.200000	9:15:53 - 2025/11/5
923.150000	9:16:04 - 2025/11/5

Maximum value : (12V)

Frequency [MHz]	Test results [dB μ V/m]		Reference Limit [dB μ V/m]	Margin to reference value [dB μ V/m]
	hor.	vert.		
280.80	31.91	---	50.68	18.77
294.90	---	32.48	51.00	18.52

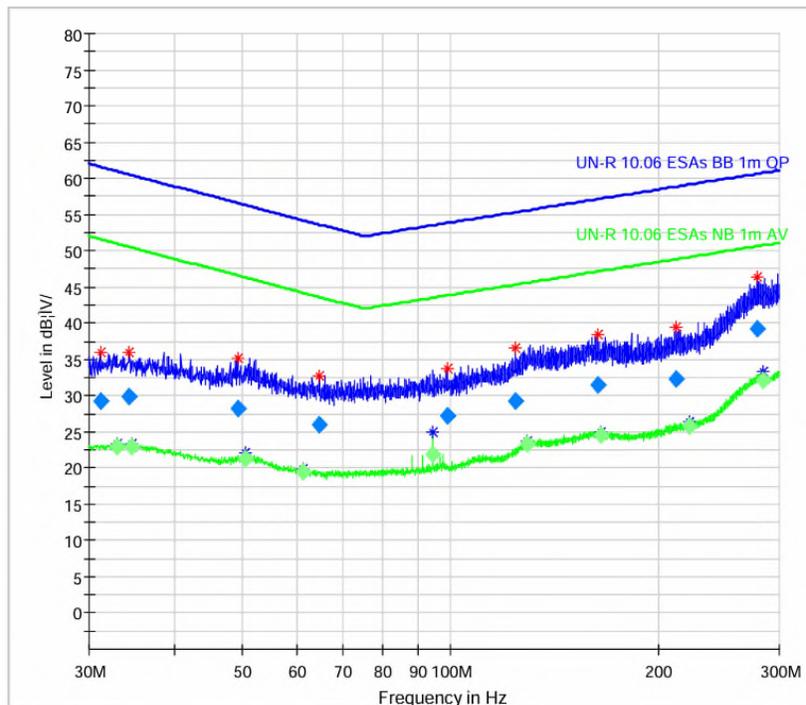
Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

EMC Test Record (Emission)

Common Information

Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited Co., Ltd.
Test Item:	RV REFRIGERATOR
Identification:	DCS150DA
Test Standard:	UN R10.06
Test Detail:	RE
Operation Mode:	On
Climate Condition:	22.1 degree, 58.7 %, 101 kPa
Test Voltage/ Freq:	DC 27.0V
Receipt No:	---
Report No:	---
Result:	Pass
Comment:	Test distance is 1m, Horizontal
Frequency Range:	30M-300MHz
Receiver:	TUV ESW8
Transducer:	TUV VHBB9124

Full Spectrum



Preview Result 2H-AVG	Preview Result 1H-PK+
PK+	AVG
UN-R 10.06 ESAs BB 1m QP	UN-R 10.06 ESAs NB 1m AV
Final_Result QPK	Final_Result AVG



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)
31.150000	29.18	---	61.59	32.41	1000.0	120.000	H	16.9
33.000000	---	23.02	50.96	27.94	1000.0	120.000	H	17.4
34.300000	29.81	---	60.54	30.73	1000.0	120.000	H	17.4
34.650000	---	22.94	50.43	27.49	1000.0	120.000	H	17.4
49.200000	28.16	---	56.60	28.44	1000.0	120.000	H	15.4
50.550000	---	21.37	46.31	24.94	1000.0	120.000	H	15.3
61.300000	---	19.43	44.20	24.77	1000.0	120.000	H	14.2
64.750000	26.08	---	53.60	27.52	1000.0	120.000	H	13.9
94.400000	---	21.81	43.51	21.70	1000.0	120.000	H	14.4
99.100000	27.21	---	53.83	26.62	1000.0	120.000	H	14.7
124.600000	29.24	---	55.34	26.10	1000.0	120.000	H	17.1
129.350000	---	23.35	45.58	22.23	1000.0	120.000	H	18.2
163.900000	31.44	---	57.14	25.70	1000.0	120.000	H	19.5
165.300000	---	24.55	47.19	22.64	1000.0	120.000	H	19.5
212.500000	32.38	---	58.84	26.46	1000.0	120.000	H	20.3
222.650000	---	25.88	49.15	23.27	1000.0	120.000	H	20.8
279.000000	39.24	---	60.63	21.39	1000.0	120.000	H	26.9
284.650000	---	32.06	50.76	18.70	1000.0	120.000	H	26.9

(continuation of the "Final_Result" table from column 14 ...)

Frequency (MHz)	Comment
31.150000	9:54:30 - 2025/11/5
33.000000	9:54:55 - 2025/11/5
34.300000	9:54:33 - 2025/11/5
34.650000	9:54:56 - 2025/11/5
49.200000	9:54:35 - 2025/11/5
50.550000	9:54:58 - 2025/11/5
61.300000	9:55:00 - 2025/11/5
64.750000	9:54:38 - 2025/11/5
94.400000	9:55:02 - 2025/11/5
99.100000	9:54:41 - 2025/11/5
124.600000	9:54:44 - 2025/11/5
129.350000	9:55:04 - 2025/11/5
163.900000	9:54:47 - 2025/11/5
165.300000	9:55:06 - 2025/11/5
212.500000	9:54:50 - 2025/11/5
222.650000	9:55:08 - 2025/11/5
279.000000	9:54:53 - 2025/11/5
284.650000	9:55:10 - 2025/11/5



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

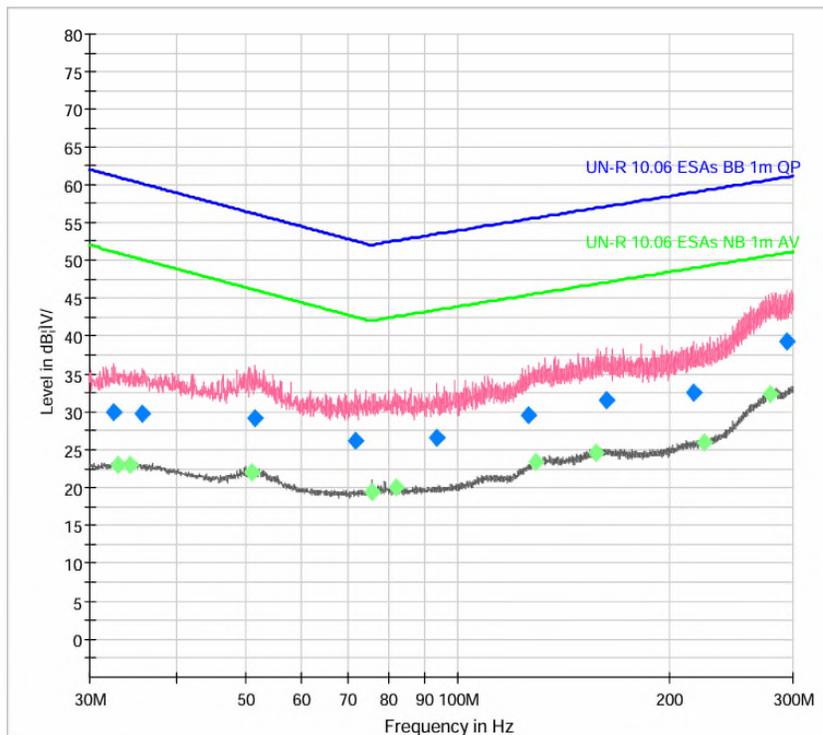
EMC Test Record (Emission)

Common Information

Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited Co., Ltd.
Test Item:	RV REFRIGERATOR
Identification:	DCS150DA
Test Standard:	UN R10.06
Test Detail:	RE
Operation Mode:	On
Climate Condition:	22.1 degree, 58.7 %, 101 kPa
Test Voltage/ Freq:	DC 27.0V
Receipt No:	---
Report No:	---
Result:	Pass
Comment:	Test distance is 1m, Vertical

Frequency Range:	30M-300MHz
Receiver:	TUV ESW8
Transducer:	TUV VHBB9124

Full Spectrum



 Preview Result 2V-AVG	 Preview Result 1V-PK+
 UN-R 10.06 ESAs BB 1m QP	 UN-R 10.06 ESAs NB 1m AV
 Final_Result QPK	 Final_Result AVG



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)
32.450000	29.88	---	61.14	31.26	1000.0	120.000	V	17.4
32.950000	---	23.03	50.98	27.95	1000.0	120.000	V	17.4
34.200000	---	22.98	50.57	27.59	1000.0	120.000	V	17.4
35.650000	29.68	---	60.12	30.44	1000.0	120.000	V	17.4
51.150000	---	21.94	46.18	24.24	1000.0	120.000	V	15.2
51.450000	29.22	---	56.11	26.89	1000.0	120.000	V	15.2
71.500000	26.08	---	52.52	26.44	1000.0	120.000	V	13.8
75.750000	---	19.40	42.07	22.67	1000.0	120.000	V	13.8
82.000000	---	19.93	42.59	22.66	1000.0	120.000	V	13.9
93.500000	26.60	---	53.45	26.85	1000.0	120.000	V	14.4
126.000000	29.50	---	55.41	25.91	1000.0	120.000	V	17.5
129.250000	---	23.34	45.58	22.24	1000.0	120.000	V	18.2
157.800000	---	24.51	46.89	22.38	1000.0	120.000	V	19.5
163.000000	31.49	---	57.10	25.61	1000.0	120.000	V	19.5
216.350000	32.56	---	58.96	26.40	1000.0	120.000	V	20.5
224.300000	---	25.95	49.20	23.25	1000.0	120.000	V	20.9
279.250000	---	32.42	50.64	18.22	1000.0	120.000	V	26.9
294.200000	39.32	---	60.98	21.66	1000.0	120.000	V	27.3

(continuation of the "Final_Result" table from column 14 ...)

Frequency (MHz)	Comment
32.450000	9:48:39 - 2025/11/5
32.950000	9:49:03 - 2025/11/5
34.200000	9:49:05 - 2025/11/5
35.650000	9:48:42 - 2025/11/5
51.150000	9:49:07 - 2025/11/5
51.450000	9:48:44 - 2025/11/5
71.500000	9:48:47 - 2025/11/5
75.750000	9:49:09 - 2025/11/5
82.000000	9:49:11 - 2025/11/5
93.500000	9:48:50 - 2025/11/5
126.000000	9:48:53 - 2025/11/5
129.250000	9:49:13 - 2025/11/5
157.800000	9:49:15 - 2025/11/5
163.000000	9:48:56 - 2025/11/5
216.350000	9:48:59 - 2025/11/5
224.300000	9:49:17 - 2025/11/5
279.250000	9:49:19 - 2025/11/5
294.200000	9:49:01 - 2025/11/5



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

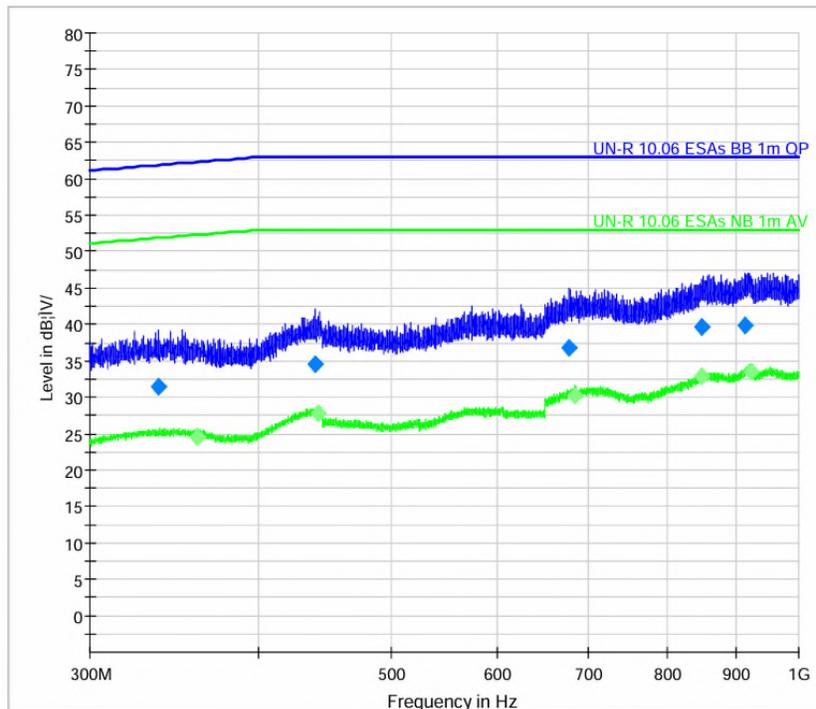
EMC Test Record (Emission)

Common Information

Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited Co., Ltd.
Test Item:	RV REFRIGERATOR
Identification:	DCS150DA
Test Standard:	UN R10.06
Test Detail:	RE
Operation Mode:	On
Climate Condition:	22.1 degree, 58.7 %, 101 kPa
Test Voltage/ Freq:	DC 27.0V
Receipt No:	---
Report No:	---
Result:	Pass
Comment:	Test distance is 1m, Horizontal

Subrange 1	
Frequency Range:	300M-1GHz
Receiver:	TUV ESW8
Transducer:	TUV VULP9118A

Full Spectrum



 Preview Result 2H-AVG	 Preview Result 1H-PK+
 UN-R 10.06 ESAs BB 1m QP	 UN-R 10.06 ESAs NB 1m AV
 Final_Result QPK	 Final_Result AVG



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)
337.400000	31.38	---	61.88	30.50	1000.0	120.000	H	19.5
360.450000	---	24.46	52.32	27.86	1000.0	120.000	H	19.2
439.900000	34.52	---	63.00	28.48	1000.0	120.000	H	21.5
442.550000	---	27.80	53.00	25.20	1000.0	120.000	H	21.6
677.000000	36.76	---	63.00	26.24	1000.0	120.000	H	24.9
683.850000	---	30.31	53.00	22.69	1000.0	120.000	H	25.1
847.550000	39.72	---	63.00	23.28	1000.0	120.000	H	27.1
848.650000	---	32.89	53.00	20.11	1000.0	120.000	H	27.1
913.900000	39.87	---	63.00	23.13	1000.0	120.000	H	27.3
923.050000	---	33.51	53.00	19.49	1000.0	120.000	H	27.6

(continuation of the "Final_Result" table from column 14 ...)

Frequency (MHz)	Comment
337.400000	10:02:07 - 2025/11/5
360.450000	10:02:21 - 2025/11/5
439.900000	10:02:10 - 2025/11/5
442.550000	10:02:23 - 2025/11/5
677.000000	10:02:13 - 2025/11/5
683.850000	10:02:25 - 2025/11/5
847.550000	10:02:16 - 2025/11/5
848.650000	10:02:27 - 2025/11/5
913.900000	10:02:19 - 2025/11/5
923.050000	10:02:29 - 2025/11/5



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

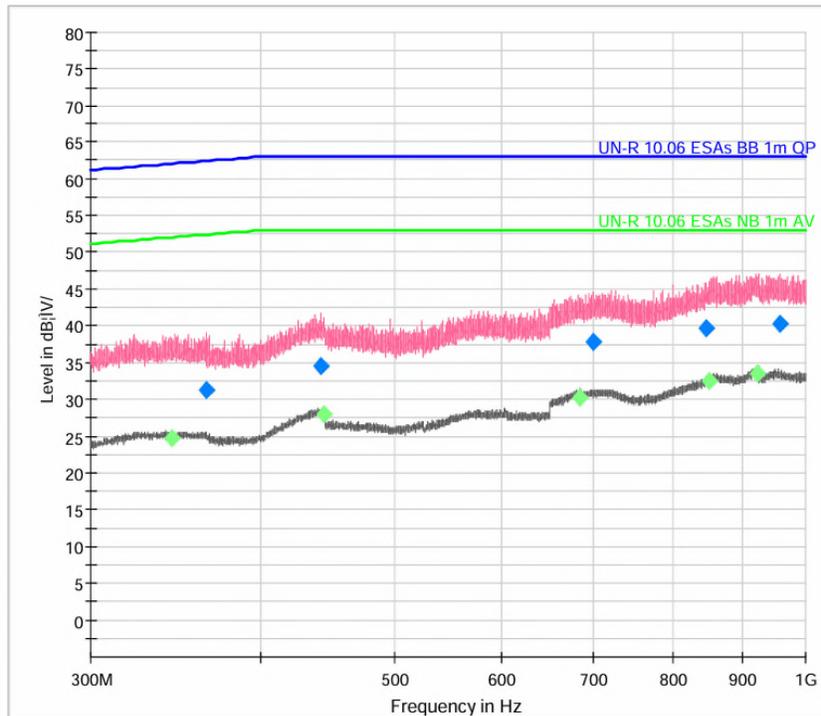
EMC Test Record (Emission)

Common Information

Manufacturer:	Foshan Sanshui Colku Electrical Appliance Limited Co., Ltd.
Test Item:	RV REFRIGERATOR
Identification:	DCS150DA
Test Standard:	UN R10.06
Test Detail:	RE
Operation Mode:	On
Climate Condition:	22.1 degree, 58.7 %, 101 kPa
Test Voltage/ Freq:	DC 27.0V
Receipt No:	---
Report No:	---
Result:	Pass
Comment:	Test distance is 1m, Vertical

Subrange 1	
Frequency Range:	300M-1GHz
Receiver:	TUV ESW8
Transducer:	TUV VULP9118A

Full Spectrum



— Preview Result 2V-AVG	— Preview Result 1V-PK+
— UN-R 10.06 ESAs BB 1m QP	— UN-R 10.06 ESAs NB 1m AV
◆ Final_Result QPK	◆ Final_Result AVG



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)
344.200000	---	24.60	52.01	27.41	1000.0	120.000	V	19.4
364.500000	31.35	---	62.39	31.04	1000.0	120.000	V	19.2
442.550000	34.63	---	63.00	28.37	1000.0	120.000	V	21.6
444.600000	---	27.88	53.00	25.12	1000.0	120.000	V	21.7
683.550000	---	30.20	53.00	22.80	1000.0	120.000	V	25.1
699.100000	37.71	---	63.00	25.29	1000.0	120.000	V	25.6
845.500000	39.58	---	63.00	23.42	1000.0	120.000	V	27.0
849.400000	---	32.49	53.00	20.51	1000.0	120.000	V	27.1
921.900000	---	33.56	53.00	19.44	1000.0	120.000	V	27.6
958.750000	40.25	---	63.00	22.75	1000.0	120.000	V	28.3

(continuation of the "Final Result" table from column 14 ...)

Frequency (MHz)	Comment
344.200000	10:07:27 - 2025/11/5
364.500000	10:07:13 - 2025/11/5
442.550000	10:07:16 - 2025/11/5
444.600000	10:07:29 - 2025/11/5
683.550000	10:07:31 - 2025/11/5
699.100000	10:07:19 - 2025/11/5
845.500000	10:07:22 - 2025/11/5
849.400000	10:07:33 - 2025/11/5
921.900000	10:07:35 - 2025/11/5
958.750000	10:07:25 - 2025/11/5

Maximum value : (24V)

Frequency [MHz]	Test results [dB μ V/m]		Reference Limit [dB μ V/m]	Margin to reference value [dB μ V/m]
	hor.	vert.		
284.65	32.06	---	50.76	18.70
279.25	---	32.42	50.64	18.22



Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

2. Emissions of transient conducted disturbances: NA

Test method : ISO 7637-2 2nd edition: 2004

Worst result of fast pulse and slow pulse

Polarity of pulse amplitude	Maximum allowed value for vehicles with 12V/24V systems	Measured Pulse amplitude True value
Positive	+75V / +150V	+10.2V / +1.8V
Negative	-100V / -450V	-13.5V / -27.0V

3. Immunity to electromagnetic radiation: NA

Test method : ISO 11452-4, fourth edition 2011
 Bulk current injection testing method (from 20 to 400MHz)

ISO 11452-2, 2nd edition: 2004
 Free field testing method (from 400 MHz to 2000MHz)

Remark: According to clause 6.10.3 of UN R10/06, ESAs with no immunity-related functions need not be tested for immunity to radiated disturbances. And the RV REFRIGERATOR belongs to such type of ESAs, thus it needs not be tested for immunity to radiated disturbances.

Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

4. Immunity to transient disturbances :

Test method : ISO 7637-2 2nd edition: 2004

Measurement result :

Test pulse	Test level		Number of pulse / test time	Burst cycle / pulse repetition time	Required minimum function status**	Status of function true value		Result
	24V	12V				24V	12V	
1	-450V	-75V	5000 pulses	0.5 s	D	C	C	passed
2a	+37V	+37V	5000 pulses	0.2 s	D	A	A	passed
2b	+20V	+10V	10 pulses	0.5 s	D	C	C	passed
3a	-150V	-112V	1 h	90 ms	D	A	A	passed
3b	+150V	+75V	1 h	90 ms	D	A	A	passed
4	-12V	-6V	1 pulse	--	D	C	C	passed

Remark:

- * Class A: all functions of a device/system perform as designed during and after exposure to disturbance.
 Class B: all functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.
 Class C: one or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.
 Class D: one or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.
 Class E: one or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

Type : DCS150DA
 Manufacturer : Foshan Sanshui Colku Electrical Appliance Limited

List of equipments

Appendix 2

Equipment	Type	Make	Serial no.	Calibration expire date
EMI Test Receiver	ESW8	Rohde & Schwarz	101273	2025-11-14
Biconical Antenna Balun	VHBB 9124	SCHWARZBECK	9124-511	2026-07-20
Log-Periodical Antenna	VULP 9118 A	SCHWARZBECK	461	2026-08-27
LISN	NNBM 8124-200	SCHWARZBECK	05119	2026-06-26
LISN	NNBM 8124-200	SCHWARZBECK	05120	2026-06-26
Electronic Switch	BS200N	EM TEST	V0927104954	2026-03-02
LISN	NNBM 8124	Schwarzbeck	8124-340	2026-03-02
Digital Phosphor Oscilloscope	DS1104B	RIGOL	DS1BC171200020	2026-06-26
Ultra Compact Simulator	UCS 200N100.3	EMTEST	P2320276296	2026-05-20
Voltage Drop Simulator	VDS 200 N50	EM TEST	V0927104953	2026-03-02



Contents

DOCUMENT	PAGE
Technical description	2-5
Mark	6
Block Diagram	7
Assembly Drawing	8
Overall size	9-12
Circuit Diagram	13-14
PCB Layout	15
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Foshan Sanshui Colku Electrical Appliance Limited
Information folder No.: IF-Colku-DCS150DA-00

Issuing date: September 10, 2025

INFORMATION DOCUMENT FOR TYPE-APPROVAL OF AN ELECTRIC/ELECTRONIC SUB-ASSEMBLY
WITH RESPECT TO ELECTROMAGNETIC COMPATIBILITY ACCORDING UN-R10-06 Annex 2B

1. Make (trade name of the manufacturer) : Colku

2. Type and general commercial description(s) : DCS150DA
RV REFRIGERATOR
Version(s) :

1. DCR75DA,	2. DCR60DA,	3. DCR80DA,
4. DCR105DA,	5. DCS90DA,	6. DCS130DA,
7. DCS150DA	8. DCR50DA	9. DCR50A,
10. DCR75A,	11. DCR60A,	12. DCR80A,
13. DCR105A,	14. DCS90A,	15. DCS130A,
16. DCS150A,	17. DCS80DV,	18. DCR50BD,
19. DCR50DY,	20. MR-43,	21. DCR75BD,
22. DCR75DY,	23. DCR60DY,	24. DCR60BD,
25. DCR80DY,	26. DCR80BD	27. DCR105DY,
28. DCR105BD,	29. MR-90SL,	30. DCS90DY,
31. DCS90BD,	32. DCS130DY,	33. MR-130SL,
34. DCS150BD,	35. MR-150SL,	36. MR-80SLS

3. Means of identification of type if marked on the vehicle/component/STU : Refer to versions

- 3.1 Location of that marking : Rating plate affixed to the housing

4. Name and address of the manufacturer : Foshan Sanshui Colku Electrical Appliance Limited
No.84, Area B, Central Technology Industry Park, Sanshui District, Foshan City, Guangdong Province, China

Name and address of authorized representative, if any : Not applicable

5. In the case of components and separate technical units, location and method of affixing of the approval mark : Rating plate affixed to the housing

6. Address(es) of assembly plant(s) : Foshan Sanshui Colku Electrical Appliance Limited
No.84, Area B, Central Technology Industry Park, Sanshui District, Foshan City, Guangdong Province, China

7. This ESA shall be approved as a : Component

8. Any restrictions of use and conditions for fitting : No restrictions

9. Electrical system rated voltage : DC 12V/24V (negative ground)

10. Charger : ---

11. Charging current : ---

12. Maximal nominal current (in each mode if necessary) : ---

13. Nominal charging voltage : ---

Type: DCS150DA

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E24*10R06/03*7428*00

Foshan Sanshui Colku Electrical Appliance Limited
Information folder No.: IF-Colku-DCS150DA-00

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14. Basic ESA interface functions: ex. L1/L2 : ---
/L3/N/PE/control pilot
15. Minimum Rsce value (see paragraph : ---
7.11. of this Regulation)



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Information folder No.: IF-Colku-DCS150DA-00

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- 1 Additional information
- 1.1 Electrical system rated voltage : DC 12V/24V (negative ground)
- 1.2 This ESA can be used on any vehicle type with the following restrictions : No restrictions
- 1.2.1 Installation conditions : Directly connected to RV power supply
- 1.3 This ESA can be used on the following vehicle types : Not applicable
- 1.3.1 Installation conditions : Not applicable
- 1.4 The specific test method(s) used and the frequency ranges covered to determine immunity were : Not applicable
- frequency range : Not applicable
- 1.5 Remarks : Version 1-17: The difference lies in the consistency of material and function, with varying product sizes and capacities, while all other aspects are identical.
And the version with suffix D is a dual-temperature and dual-control version, while the version without suffix D is a single-temperature control version.
Version 18-36:
The difference lies in the fact that all models in this section are named by the customers, with inconsistent product dimensions and capacities, while the rest are completely identical.



Foshan Sanshui Colku Electrical Appliance Limited
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The power information for each model is shown in the table below:

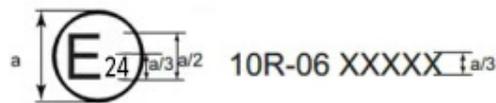
Model difference as below table:									
Model	Volume	Input voltage	Input Power	Circuit board	Compressor	Controller	Fan	BT/WIFI	Refrigerant/Charger
DCS150DA	156L	DC 12V/24V	75w	All models are the same, but the circuit board shape are difference	DZ35M1P-B	LC25B-CMS	0.25A FSY12S12M	YES	R600a/26g
DCS150A									
DCS150BD									
MR-150SL									
DCS130DA	132L		75w						R600a/24g
DCS130A									
DCS130DY									
MR-130SL									
DCS90DA	90L		70w						R600a/20g
DCS90A									
DCS90DY									
MR-90SL									
DCS90BD									
DCR105DA	104L		70w						R600a/20g
DCR105A									
DCR105BD									
DCR105DY									
DCR75DA	72L		65w						R600a/20g
DCR75A									
DCR75BD									
DCR75DY									
DCR60DA	57L	70w	R600a/20g						
DCR60A									
DCR60DY									
DCR60BD									
DCR80DA	80L	70w	R600a/20g						
DCR80A									
DCR80DY									
DCR80BD									
DCS80DV	80L	70w	R600a/20g						
MR-80SLS									
DCR50DA	42.6L	60w	R600a/15g						
DCR50A									
DCR50DY									
DCR50BD									
MR-43									





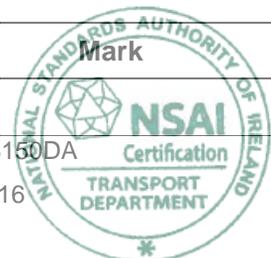
RV REFRIGERATOR	
Model No.	DCS150DA
Capacity	33L Freezer,123L Fridge
Voltage	DC 12V/24V
Input power	75W
Refrigerant	R600a/26g
Isolation	C-Pentane
Temperature range	-18~5℃ Freezer/0~10℃ Fridge
Product dimension	L560*W420*H1500mm
Weight	39.4KG
Serial No.	
	

E-mark example:

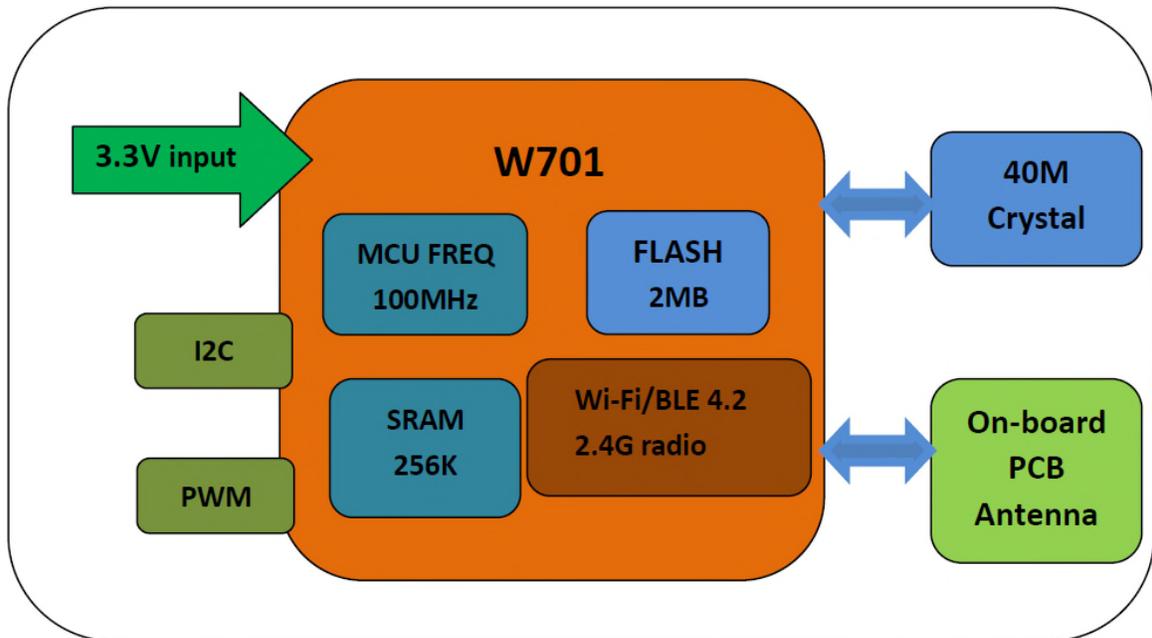


a=6mm

DRW.	1	
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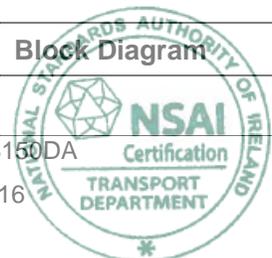
Block Diagram

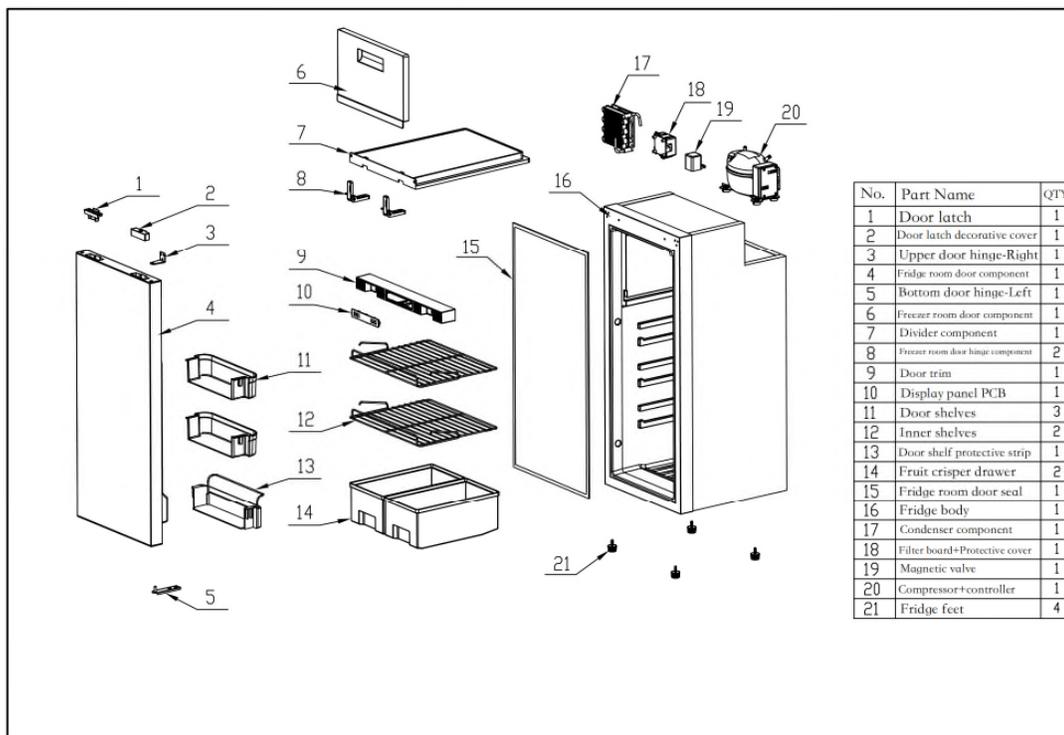
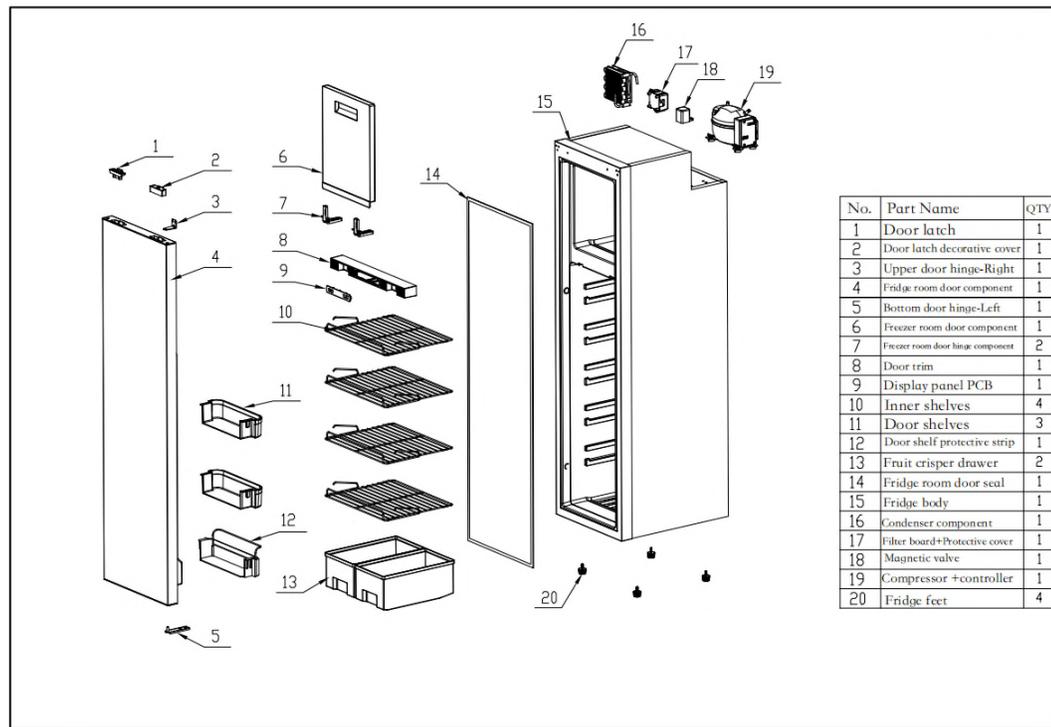


DRW.

2

Block Diagram

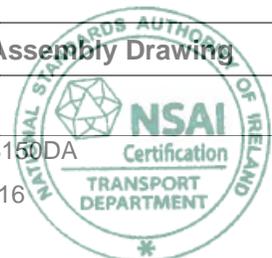




DRW.

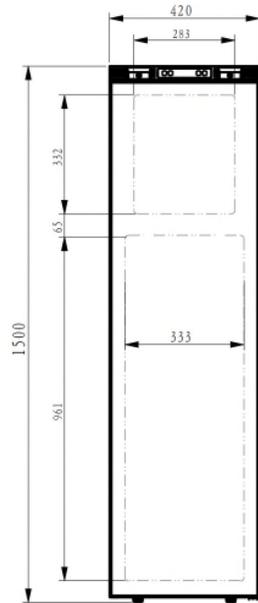
3

Assembly Drawing

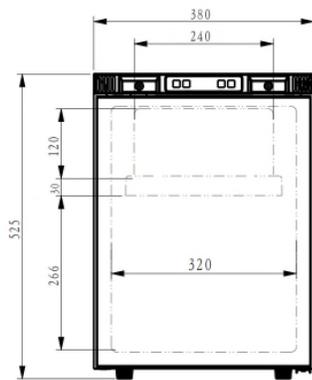
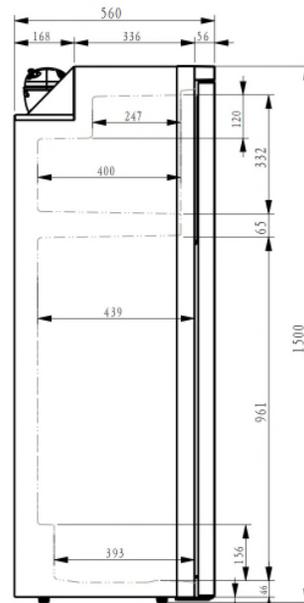


Foshan Sanshui Colku Electrical Appliance Limited
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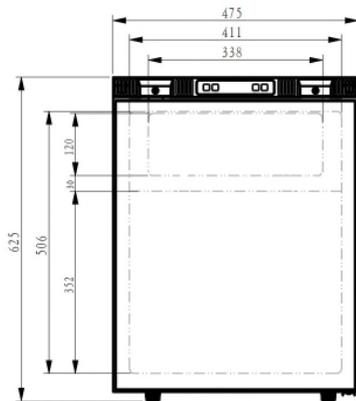
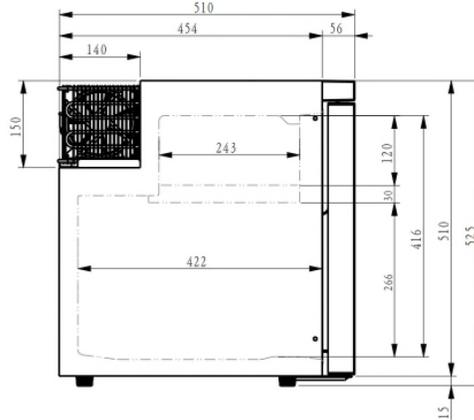
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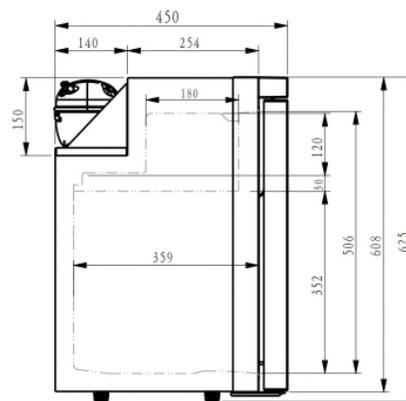
DCS150DA,DCS150A,MR-150SL,DCS150BD



DCR50DA,DCR50A,DCR50BD,DCR50DY,MR-43



DCR60DA,DCR60A,DCR60DY,DCR60BD



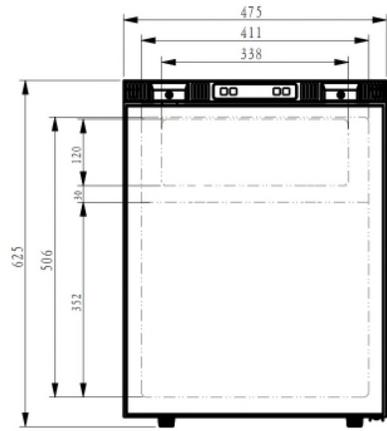
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DRW.	4	Assembly Drawing
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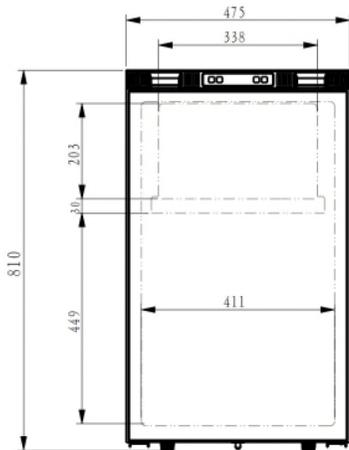
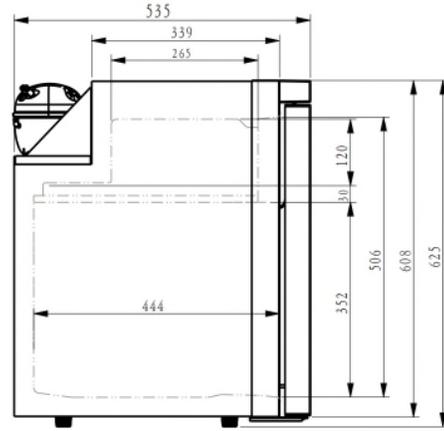


Foshan Sanshui Colku Electrical Appliance Limited
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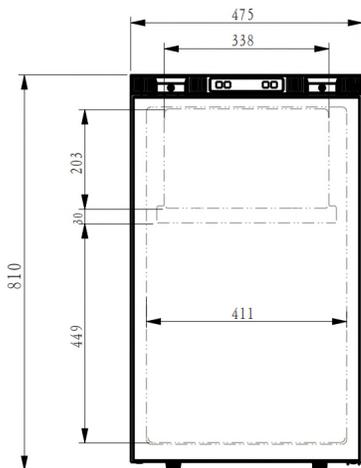
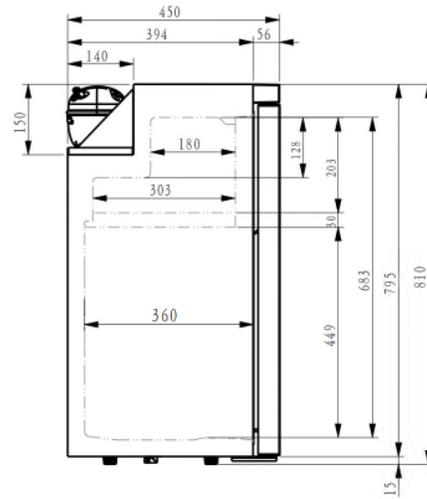
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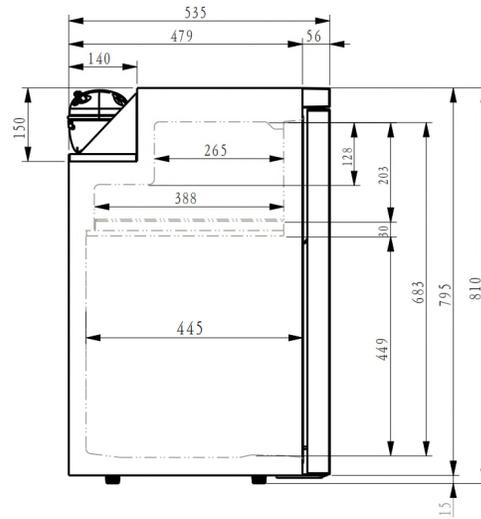
DCR75DA,DCR75A,DCR75DY,DCR75BD



DCR80DA,DCR80A,DCR80DY,DCR80BD



DCR105DA,DCR105A,DCR105DY,DCR105BD



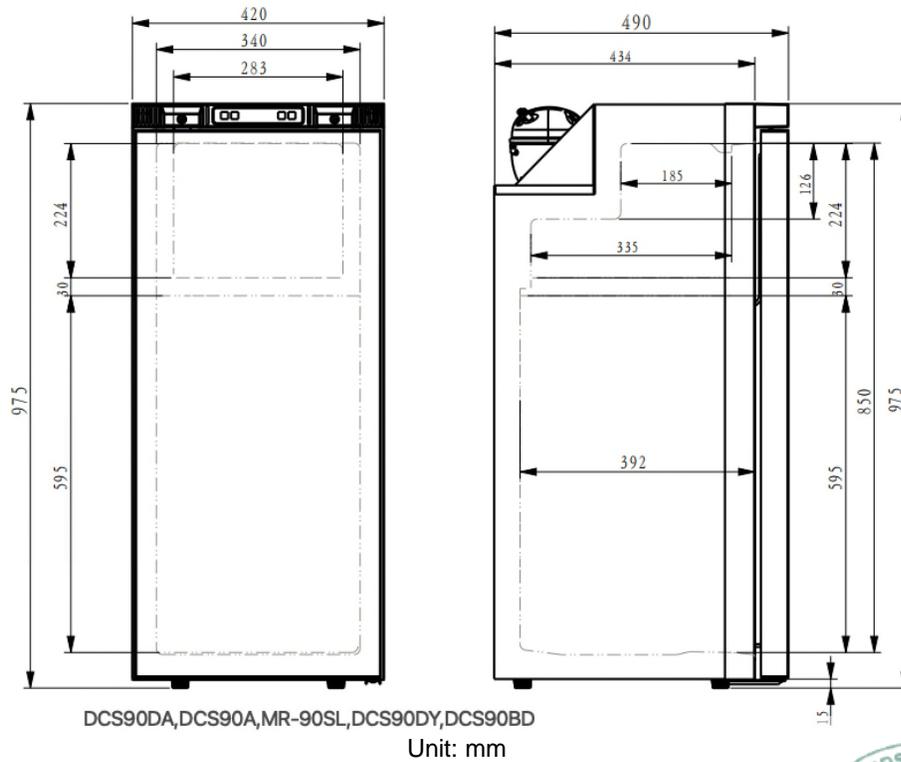
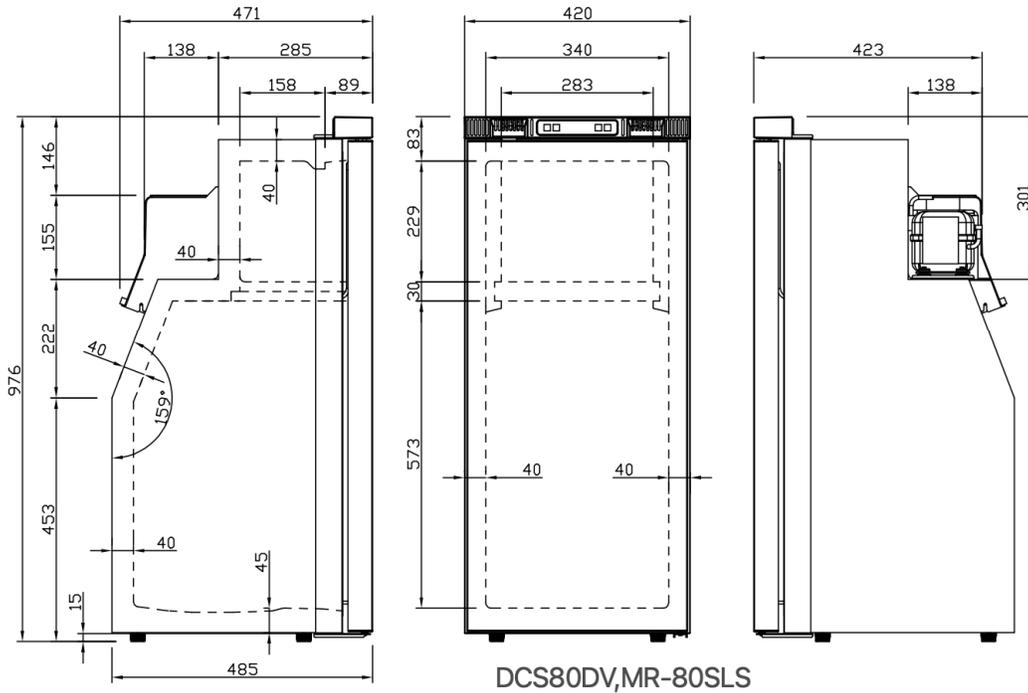
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DRW.	5	Assembly Drawing
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Type: DCS150DA

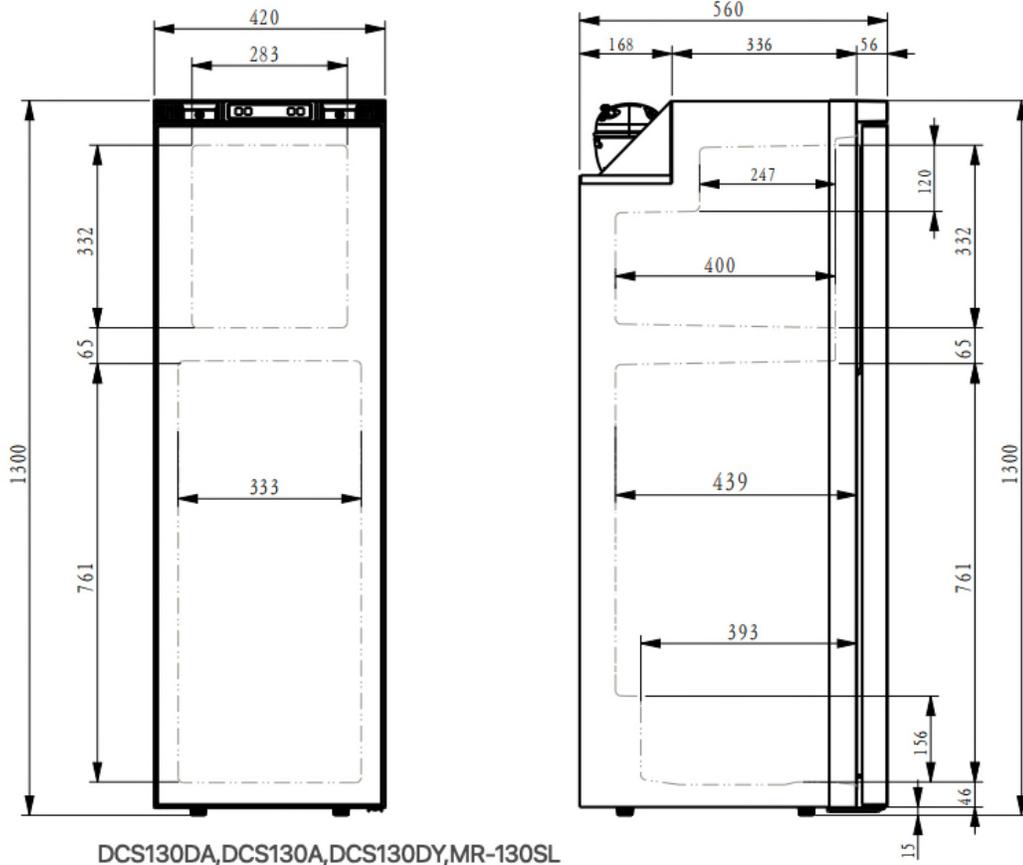
Page 10 of 16





DRW.	6	Assembly Drawing
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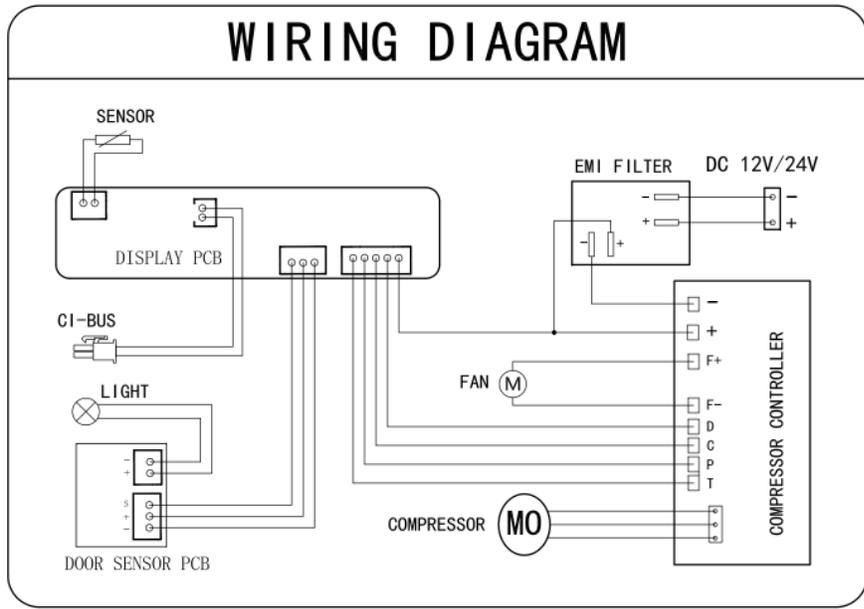
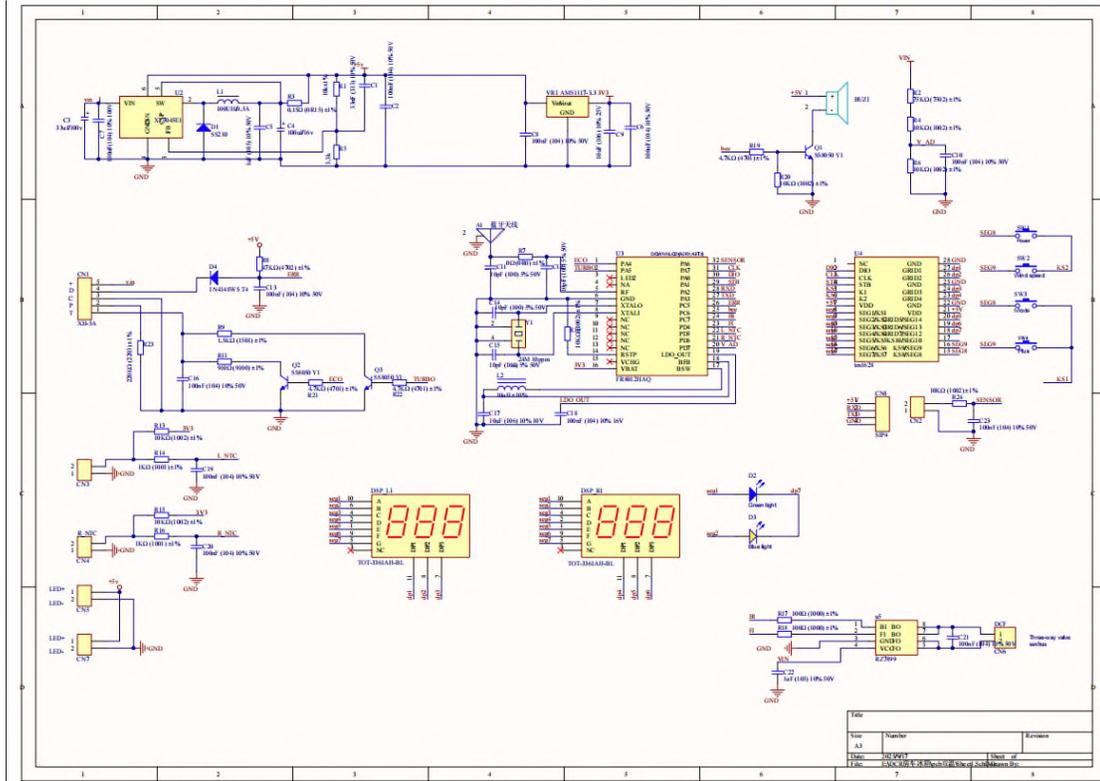
Unit: mm

DRW.

7

Assembly Drawing

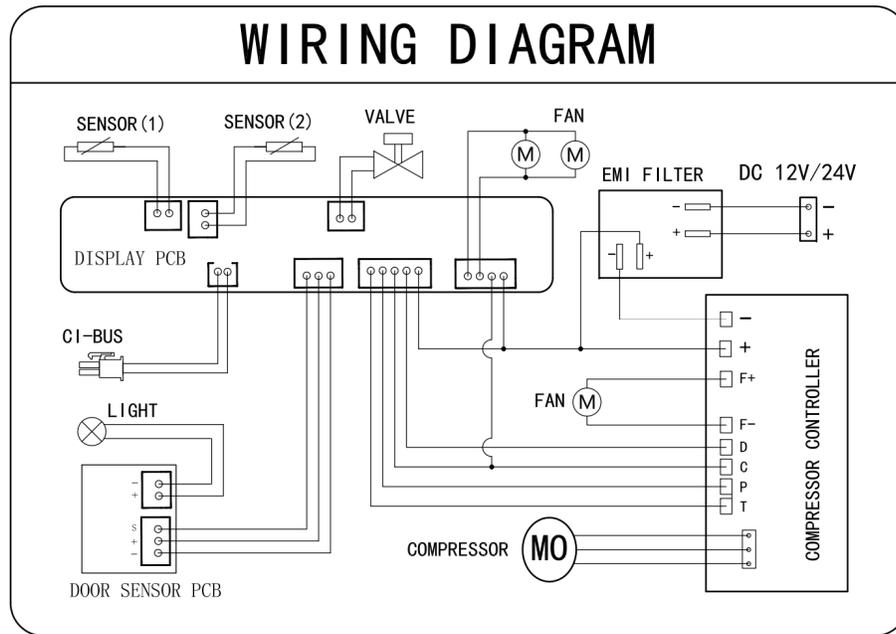




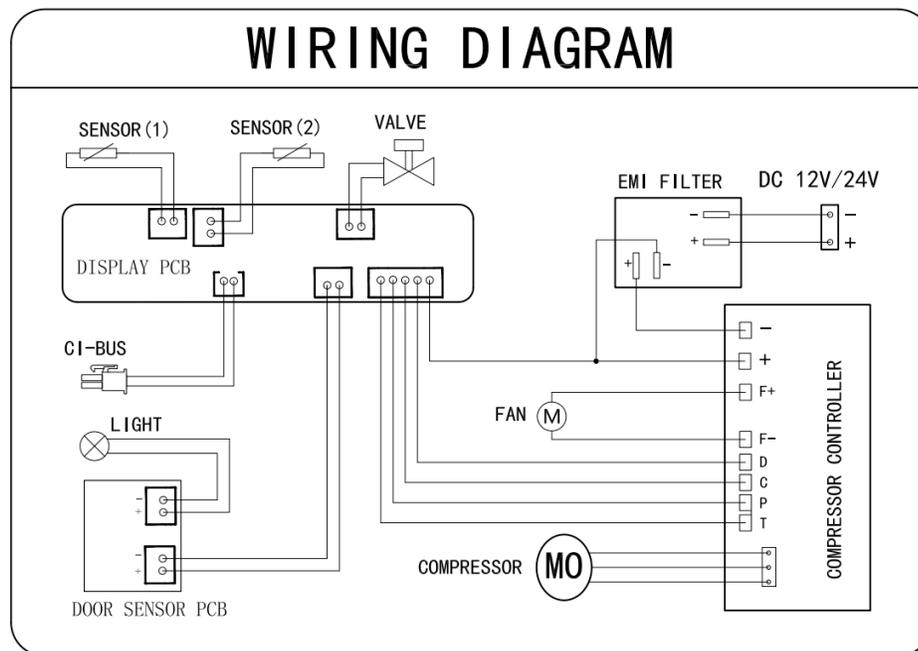
For model:
 DCR50A, DCR75A, DCR60A, DCR80A, DCR105A, DCS90A, DCS130A, DCS150A

DRW. 8





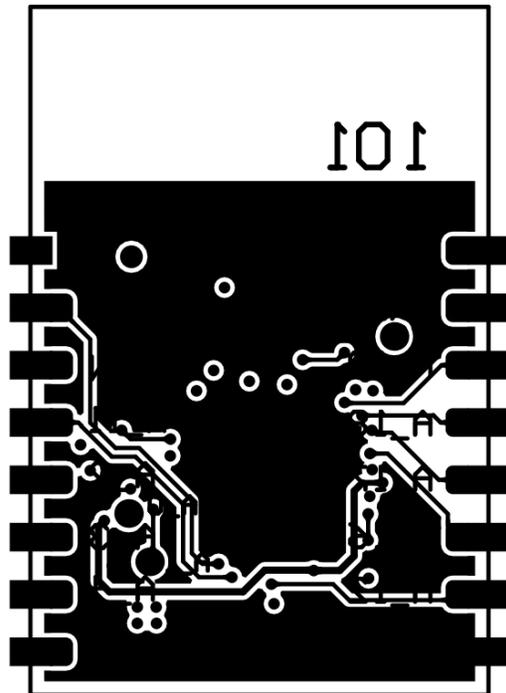
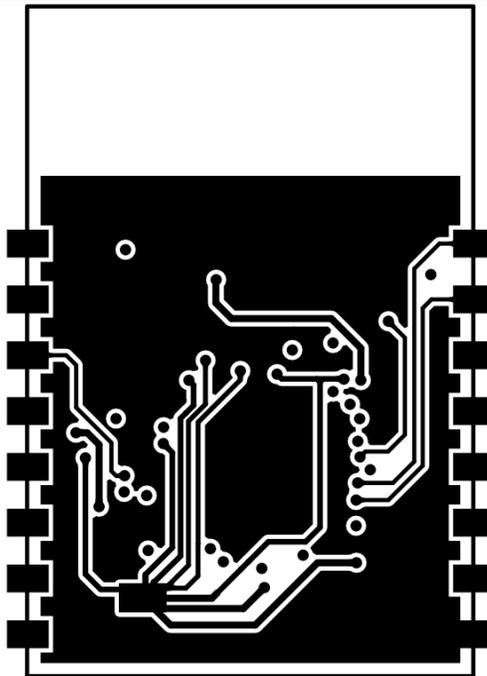
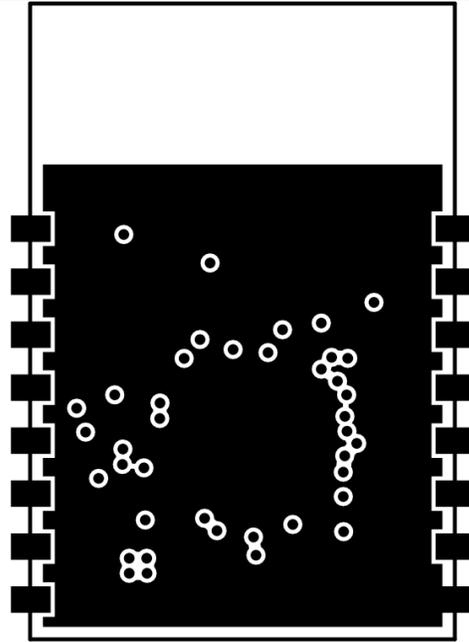
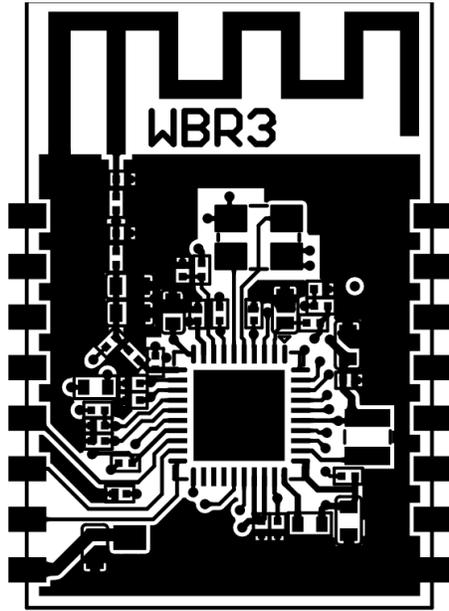
For model:
 DCS130DA, DCS150DA, DCS130DY, MR-130SL, DCS150BD, MR-150SL, DCM175DY, DCM175BD



For model:
 DCR50DA, DCR60DA, DCR75DA, DCR80DA, DCR105DA, DCS90DA,
 DCS80DY, DCR50BD, DCR50DY, MR-43, DCR75BD, DCR75DY, DCR60DY, DCR60BD,
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DRW.	9
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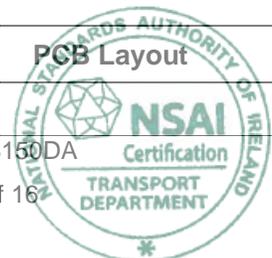




DRW.

10

PCB Layout



Foshan Sanshui Colku Electrical Appliance Limited
Information folder No.: IF-Colku-DCS150DA-00

Issuing date: September 10, 2025

Bill of Materials

part No.	Object	Manufacturer/ trademark	Type / model	Technical data
1.	Compressor	Anhui MEIZHI COMPRESSOR CO., LTD.	DZ35M1P	12/24V DC, R600a
2.	DC Fan motor	SHENZHDN FONSONING ELECTRONIC FACTORY	FYS12S12M	DC 12V
3.	DC Fan motor	SHENZHDN FENGSHENGYUAN ELECTRONICS Co., LTD	FYS7515B12L	DC 12V
4.	Internal Wire	Zhongshan City boyu wire Co Ltd.	1015	105°C, 600V, 14-26AWG
5.	Solenoid Valve	Zhejiang Sanhua climate & appliance controls group Co., Ltd	KMV432	DC12V
6.	-Lamp PCB	FOSHAN MAC AO JIE ELECTRONIC CO., LTD	CK-250928	12/24VDC
7.	PCB board	FOSHAN MAC AO JIE ELECTRONIC CO., LTD	CK-H105V1	/
8.	Plastic	CHI MEI CORPORATION	PA-757	/

