

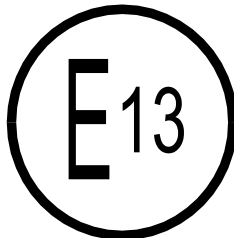


Référence: E13*10R05/01*15553*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Bertrange, le 24 juillet 2020

Communication concernant:⁽²⁾
Communication concerning:




- **la délivrance d'une homologation**
approval granted
- ~~**l'extension d'homologation**~~
approval extended
- ~~**le refus d'homologation**~~
approval refused
- ~~**le retrait d'homologation**~~
approval withdrawn
- ~~**l'arrêt définitif de la production**~~
production definitely discontinued

d'un type de sous-ensemble électrique/électronique⁽²⁾ en ce qui concerne le Règlement N° 10
of a type of electrical/electronic sub-assembly with regard to Regulation N° 10

Numéro d'homologation par type:
Approval number:

E13*10R05/01*15553*00

Marque d'homologation:
Approval mark:

 10R - 05 15553

1. Fabricant: (marque commerciale du constructeur):
Make (trade name of manufacturer):

NECVOX

2. Type:
Type:

DVN-A 1033P

Dénomination(s) commerciale(s) générale(s):
General commercial description(s):

Car DVD player

Variante(s)/Version(s):
Variant(s)/Version(s):

1. DVN-A X (variable X = 1000P to 1999P)
2. EVR X (variable X = 5001N to 5999N)
3. EVR X (variable X = 5001X to 5999X)

- 3. Moyens d'identification du type, s'ils sont marqués sur le véhicule / composant / entité technique⁽²⁾:**
Means of identification of type, if marked on the vehicle / component / separate technical unit:
- By letters and numbers on rating plate
- 3.1. Emplacement de ce marquage:**
Location of that marking:
- Affixed to the housing
- 4. Catégorie du véhicule:**
Category of vehicle:
- Not applicable
- 5. Nom et adresse du constructeur:**
Name and address of manufacturer:
- Guangzhou Zhihang Electronics Technology Co., Ltd.
Unit 101&201&301, Building 20, No. 46, Xinye Road,
Yonghe Economic Zone, Guangzhou Economic and
Technology Development Zone, Guangzhou City,
Guandong Province, 511356, China.
- 6. Dans le cas de composants ou d'entités techniques, emplacement et procédé de fixation de la marque de réception CEE:**
In the case of components and separate technical units, location and method of affixing of the ECE approval mark:
- Rating plate affixed to the housing
- 7. Adresse(s) de l' (des) usine(s) d'assemblage:**
Address(es) of assembly plant(s):
- Guangzhou Zhihang Electronics Technology Co., Ltd.
Unit 101&201&301, Building 20, No. 46, Xinye Road,
Yonghe Economic Zone, Guangzhou Economic and
Technology Development Zone, Guangzhou City,
Guandong Province, 511356, China.
- 8. Informations supplémentaires (s'il y a lieu):**
Additional informations (where applicable):
- See appendix below
- 9. Service technique responsable de l'exécution des essais:**
Technical service responsible for carrying out the tests:
- TÜV Rheinland Luxemburg GmbH s.à r.l.
2-4, rue Edmond Reuter
L-5326 Contern
- 10. Date du rapport d'essai:**
Date of test report:
- 12.05.2020
- 11. Numéro du rapport d'essai:**
Number of test report:
- 85-R10-016/20-00
- 12. Remarques (s'il y a lieu):**
Remarks (if any):
- See appendix below

13. **Lieu:** Bertrange
Place:

14. **Date:** 24 juillet 2020
Date:

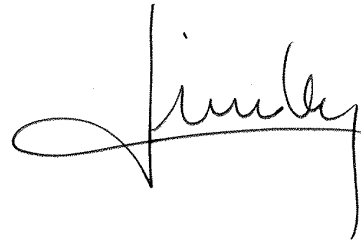
15. **Signature:**
Signature:

**Pour le Ministre de la Mobilité
et des Travaux publics**



Alain DISVISCOUR
Conseiller

Pour la SNCH



Laurent LINDEN
Directeur opérationnel



16. **L'index de l'ensemble des renseignements déposé chez l'autorité de réception, qui peut être obtenu sur demande, est joint.**

The index to the information package lodged with the approval authority, which may be obtained on request, is attached.

See index to type-approval report

17. **Raison(s) de l'extension:** Not applicable
Reason(s) for extension:

² **Biffer la mention inutile**
Strike out what does not apply

Appendice

Appendix

au certificat d'homologation par type N° E13*10R05/01*15553*00

to type-approval certificate N° E13*10R05/01*15553*00

concernant l'homologation par type d'un sous ensemble électrique/électronique selon le Règlement N° 10.

concerning the type-approval of an electrical/electronic sub-assembly under Regulation N° 10.

- | | | |
|---------------|--|--|
| 1. | Informations supplémentaires.
Additional information. | |
| 1.1. | Tension nominale du système électrique [V]:
Electrical system rated voltage [V]: | DC 12V |
| | Masse:
Ground: | Negative / Positive ⁽²⁾ |
| 1.2. | Ce SEEE peut être utilisé sur n'importe quel type de véhicule avec les restrictions suivantes:
This ESA can be used on any vehicle type with the following restrictions: | No restrictions |
| 1.2.1. | Conditions d'installation, s'il y a lieu:
Installation conditions, if any: | Directly connected to car battery |
| 1.3. | CE SEEE peut seulement être utilisé sur les types de véhicules suivants:
This ESA can be used only on the following vehicle types: | Not applicable |
| 1.3.1. | Conditions d'installation, s'il y a lieu:
Installation conditions, if any: | Not applicable |
| 1.4. | La (les) méthode(s) spécifique(s) d'essais utilisée(s) et les bandes de fréquences couvertes pour déterminer l'immunité étai(ent): (indiquez s'il vous plaît à partir de l'annexe 9 la méthode précise utilisée).
The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from annex 9). | Bulk current injection 20 to 400 MHz
ISO 11452-4 3 rd ed. 2005 and Corrigendum 1: 2009
Absorber chamber 400 to 2000 MHz
ISO 11452-2 2 nd ed. 2004 |
| 1.5. | Laboratoire accrédité au titre de la norme ISO 17025 et reconnu par l'autorité d'homologation chargé d'effectuer les essais:
Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: | Not applicable |
| 2. | Commentaires:
Remarks: | All the versions are same except for the model name, appearance and color |



Référence: E13*10R05/01*15553*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Bertrange, le 24 juillet 2020

Index du dossier d'homologation

Index to type-approval report

	Numéro d'homologation: Approval number:	E13*10R05/01*15553*00
	Révision: Revision:	00
	Marque de fabrication ou de commerce: Trade name or mark:	NECVOX
	Type: Type:	DVN-A 1033P
1.	Procès-verbal d'essai: Test report:	N° 85-R10-016/20-00
	- Test report:	Page 1 to 5
	- Technical information:	Appendix L - Page 6 & 7
	- List of modifications:	Appendix 0 - Page 8
	- Test protocol:	Appendix 1 - Page 9 to 20
2.	Dossier du constructeur: Report of the manufacturer:	N° IF-NECVOX-DVN-A 1033P-00
	- Manufacturer's information document:	Page 1 to 25
3.	Autres documents annexés: Other documents annexed:	Not applicable
4.	Date de délivrance de l'homologation initiale: Date of issue of initial type approval:	24.07.2020
5.	Date de la dernière délivrance de pages révisées: Date of last issue of revised pages:	Not applicable
6.	Date de la dernière délivrance d'une homologation révisée: Date of last extension:	Not applicable

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.



TEST REPORT

according to UN-Regulation

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

No.10

including all amendments until

05 series of amendments

Supplement 1

Previously granted

UN approval :

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 in full by the client only. It shall however be reproduced and published partially with the written permission of the Testing Laboratory only.

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

**0. General information**

- 0.1. Make (trade name of the manufacturer) : NECVOX
- 0.2. Manufacturer's name for the type of the device : Car DVD player, DVN-A 1033P
- version(s) : 1. DVN-A X (variable X = 1000P, 1001P ... 1999P)
2. EVR X (variable X = 5001N, 5002N ... 5999N)
3. EVR X (variable X = 5001X, 5002X ... 5999X)
- 0.3. Category of vehicle : Not applicable
- 0.4. Name and address of the manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.
Unit 101&201&301, Zibian Building 20, No. 46, Xinye Road, Yonghe Economic Zone, Guangzhou Economic and Technology Development Zone, Guangzhou City, Guangdong Province, 511356, China.
- 0.5. No. of the information document : IF-NECVOX-DVN-A 1033P-00
- Date of issue : November 11, 2019
- Date of last change : Not applicable

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

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

1.1. Description

1.1.1. ~~Vehicle~~/ object : Car DVD player

Trade name : NECVOX

Type(s) ~~/variant(s)~~ ~~/version(s)~~ : DVN-A 1033P

Identification number : Not applicable

1.1.2. Condition of ~~vehicle(s)~~/Object(s) : New / ~~used~~ / ~~pre-tested~~

1.2. Worst case configuration : There is no worst case selection applicable because all the versions are same except for the model name, appearance and color.

1.3. Remarks : ---



Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

2. Test record

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

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.



- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1.1. 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,
510650
- Test date : November 17-December 30, 2019
- 2.4. Remarks : Not applicable

3. Appendices

- Appendix L : Technical information about the electronic sub-assembly according to Annex 3B for the communication of the UN-type approval
- Appendix 0 : List of modifications
- Appendix 1 : Test protocol
- Information folder No. : IF-NECVOX-DVN-A 1033P-00 (25 pages)

4. Statement of conformity

The in section 0.5. mentioned information document and the type described in that comply with the requirements mentioned on page 1.

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

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

Engineering Center Shanghai, May 12, 2020
QH / VY

A handwritten signature in black ink, appearing to read 'Cherry He'.

Cherry He
Expert Technical Service

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

**Technical information about the electronic sub-assembly according to Annex 3B
for the communication of the UN-type approval**
APPENDIX L

1. Make (trade name of manufacturer) : NECVOX
2. Type and general commercial description(s) : DVN-A 1033P
 - commercial description(s) : Car DVD player
 - version(s) : Version 1: DVN-A X (variable X = 1000P, 1001P ... 1999P)
version 2: EVR X (variable X = 5001N, 5002N ... 5999N)
version 3: EVR X (variable X = 5001X, 5002X ... 5999X)
3. Means of identification of type, if marked on the ~~vehicle~~/component/~~separate technical unit~~⁽²⁾ : By letters and numbers on rating plate
 - 3.1. Location of that marking : Rating plate affixed to the housing
4. Category of vehicle : Not applicable
5. Name and address of manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.
Unit 101&201&301, Zibian Building 20, No. 46, Xinye Road, Yonghe Economic Zone, Guangzhou Economic and Technology Development Zone, Guangzhou City, Guangdong Province, 511356, 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) : Guangzhou Zhihang Electronics Technology Co., Ltd.
Unit 101&201&301, Zibian Building 20, No. 46, Xinye Road, Yonghe Economic Zone, Guangzhou Economic and Technology Development Zone, Guangzhou City, Guangdong Province, 511356, China.
8. Additional information (where applicable) : See Appendix
9. Technical service responsible for carrying out the tests : TÜV Rheinland Luxemburg GmbH s.à r.l.
2-4, rue Edmond Reuter,
L-5326 Contern
10. Date of test report : May 12, 2020
11. Number of test report : 85-R10-016/20-00
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 : ~~See information folder (approval history)~~ / not applicable

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.



**Appendix to type-approval communication form No. E13*10R05/01*XXXX*00
Concerning the type-approval of an electrical/electronic sub-assembly under Regulation No. 10**

- | | | | |
|--------|--|---|--|
| 1.1. | Electrical system rated voltage | : | DC 12V . 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 car battery |
| 1.3. | This ESA can be used only on the following vehicle types | : | Not applicable |
| 1.3.1. | Installation conditions, if any | : | --- |
| 1.4. | The specific test method(s) used and the frequency ranges covered to determine immunity were | : | ISO 11452-4 3rd edition: 2005 and Corrigendum 1: 2009
Bulk current injection testing method (from 20 to 400MHz)

ISO 11452-2 2nd edition: 2004
Free field testing method (from 400 MHz to 2000MHz) |
| 1.5. | Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests | : | Not applicable |
| 2. | Remarks | : | All the versions are same except for the model name, appearance and color. |

⁽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 : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.



List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

**Test protocol****Appendix 1****Test object**

Trade name : NECVOX

Type(s) /variant(s) /version(s) : DVN-A 1033P

Technical data of the tested object(s) type

Electrical system rated voltage : DC 12V (negative ground)

This ESA can be used on any vehicle type
with the following restrictions : No restrictions

Installation conditions : Directly connected to car battery

This ESA can be used on the following
vehicle types : Not applicable

Installation conditions : Not applicable

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.



Test results

1. Radiated narrow band / broadband electromagnetic emissions:

Antenna position : Horizontal and vertical

Rated voltage : DC 12V

Operation mode : All the operating mode are bluetooth mode, USB mode, CD mode, radio mode, navigation mode and reverse mode.
The USB mode is selected as the worst operating mode for test.



Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

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

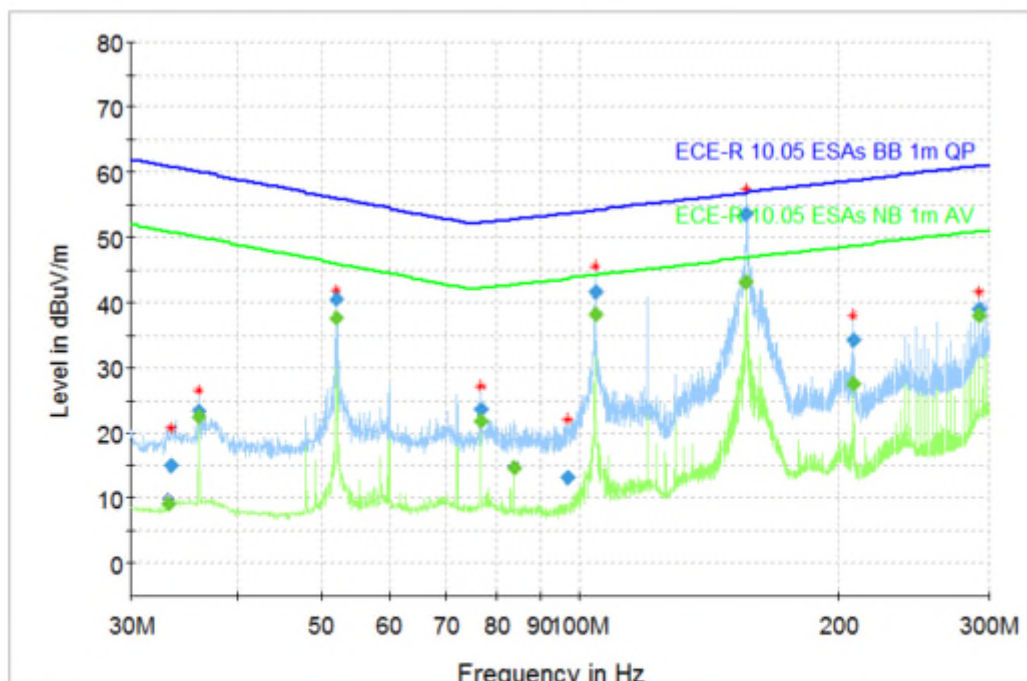
EMC Test Record (Emission)

Common Information

Manufacturer: Zhihang
 Test Item: Car DVD player
 Identification: DVN-A 1033P
 Test Standard: ECE R10.05
 Test Detail: Radiated Emission
 Operation Mode: USB
 Climate Condition: 23 degree, 53 %, 101 kPa
 Test Voltage/ Freq: DC 13.5 V
 Receipt No: 170121872
 Report No:
 Result: Pass
 Comment: Test distance is 1m, Horizontal

Subrange 1
 Frequency Range: 30M-300MHz
 Receiver: TUV ESU 26
 Transducer: TUV VHBB9124

Full Spectrum



- Preview Result 2H-AVG
- Preview Result 1H-PK+
- ★ Critical_Freqs AVG
- ★ Critical_Freqs PK+
- ECE-R 10.05 ESAs BB 1m QP
- ECE-R 10.05 ESAs NB 1m AV
- ◆ Final_Result QPK
- ◆ Final_Result AVG

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Comment
33.200000	---	9.16	50.89	41.73	1000.0	120.000	H	12.5	3:03:13 - 11/24/2019
33.450000	14.98	---	60.81	45.83	1000.0	120.000	H	12.5	3:02:40 - 11/24/2019
36.000000	---	22.49	50.01	27.52	1000.0	120.000	H	12.6	3:03:16 - 11/24/2019
36.000000	23.31	---	60.01	36.70	1000.0	120.000	H	12.6	3:02:44 - 11/24/2019
52.100000	---	37.55	45.98	8.42	1000.0	120.000	H	11.8	3:03:18 - 11/24/2019
52.100000	40.49	---	55.98	15.48	1000.0	120.000	H	11.8	3:02:48 - 11/24/2019
76.800000	23.55	---	52.16	28.60	1000.0	120.000	H	11.4	3:02:52 - 11/24/2019
76.800000	---	21.78	42.16	20.37	1000.0	120.000	H	11.4	3:03:21 - 11/24/2019
84.000000	---	14.79	42.74	27.96	1000.0	120.000	H	11.2	3:03:24 - 11/24/2019
97.050000	13.22	---	53.69	40.47	1000.0	120.000	H	11.1	3:02:56 - 11/24/2019
104.200000	---	38.30	44.16	5.86	1000.0	120.000	H	11.5	3:03:26 - 11/24/2019
104.250000	41.65	---	54.16	12.52	1000.0	120.000	H	11.5	3:02:59 - 11/24/2019
156.350000	53.70	---	56.83	3.12	1000.0	120.000	H	13.6	3:03:03 - 11/24/2019
156.350000	---	43.19	46.83	3.64	1000.0	120.000	H	13.6	3:03:29 - 11/24/2019
208.450000	34.20	---	58.72	24.51	1000.0	120.000	H	15.9	3:03:07 - 11/24/2019
208.450000	---	27.64	48.72	21.07	1000.0	120.000	H	15.9	3:03:32 - 11/24/2019
291.850000	---	38.08	50.93	12.84	1000.0	120.000	H	23.8	3:03:34 - 11/24/2019
291.850000	39.00	---	60.93	21.93	1000.0	120.000	H	23.8	3:03:10 - 11/24/2019

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

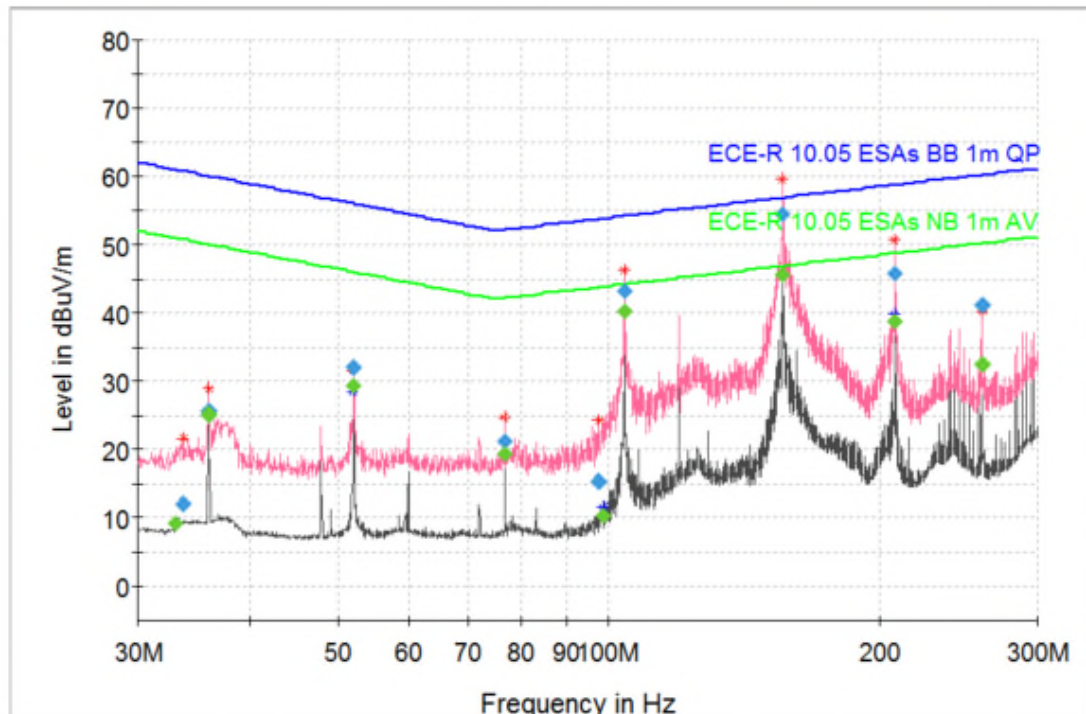
EMC Test Record (Emission)

Common Information

Manufacturer: Zhihang
 Test Item: Car DVD player
 Identification: DVN-A 1033P
 Test Standard: ECE R10.05
 Test Detail: Radiated Emission
 Operation Mode: USB
 Climate Condition: 23 degree, 53 %, 101 kPa
 Test Voltage/ Freq: DC 13.5 V
 Receipt No: 170121872
 Report No:
 Result: Pass
 Comment: Test distance is 1m, Vertical

Subrange 1
 Frequency Range: 30M-300MHz
 Receiver: TUV ESU 26
 Transducer: TUV VHBB9124

Full Spectrum



—	Preview Result 2V-AVG	—	Preview Result 1V-PK+
+	Critical_Freqs AVG	*	Critical_Freqs PK+
—	ECE-R 10.05 ESAs BB 1m QP	—	ECE-R 10.05 ESAs NB 1m AV
◆	Final_Result QPK	◆	Final_Result AVG

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Poi	Corr. (dB)	Comment
33.000000	---	9.25	50.96	41.71	1000.0	120.000	V	12.4	2:55:57 - 11/24/2019
33.650000	12.06	---	60.75	48.69	1000.0	120.000	V	12.5	2:55:25 - 11/24/2019
36.000000	---	25.12	50.01	24.89	1000.0	120.000	V	12.6	2:56:00 - 11/24/2019
36.000000	25.70	---	60.01	34.31	1000.0	120.000	V	12.6	2:55:29 - 11/24/2019
52.100000	---	29.51	45.98	16.47	1000.0	120.000	V	11.8	2:56:02 - 11/24/2019
52.100000	32.15	---	55.98	23.82	1000.0	120.000	V	11.8	2:55:32 - 11/24/2019
76.800000	21.24	---	52.16	30.92	1000.0	120.000	V	11.4	2:55:36 - 11/24/2019
76.800000	---	19.51	42.16	22.65	1000.0	120.000	V	11.4	2:56:05 - 11/24/2019
97.800000	15.45	---	53.74	38.30	1000.0	120.000	V	11.2	2:55:40 - 11/24/2019
98.850000	---	10.36	43.81	33.45	1000.0	120.000	V	11.2	2:56:08 - 11/24/2019
104.200000	43.15	---	54.16	11.01	1000.0	120.000	V	11.5	2:55:43 - 11/24/2019
104.250000	---	40.18	44.16	3.98	1000.0	120.000	V	11.5	2:56:10 - 11/24/2019
156.300000	---	45.51	46.83	1.31	1000.0	120.000	V	13.6	2:56:13 - 11/24/2019
156.400000	54.42	---	56.83	2.41	1000.0	120.000	V	13.6	2:55:47 - 11/24/2019
208.450000	45.76	---	58.72	12.95	1000.0	120.000	V	15.9	2:55:51 - 11/24/2019
208.450000	---	38.65	48.72	10.07	1000.0	120.000	V	15.9	2:56:16 - 11/24/2019
260.550000	41.07	---	60.18	19.11	1000.0	120.000	V	19.1	2:55:54 - 11/24/2019
260.600000	---	32.43	50.18	17.76	1000.0	120.000	V	19.1	2:56:19 - 11/24/2019



Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

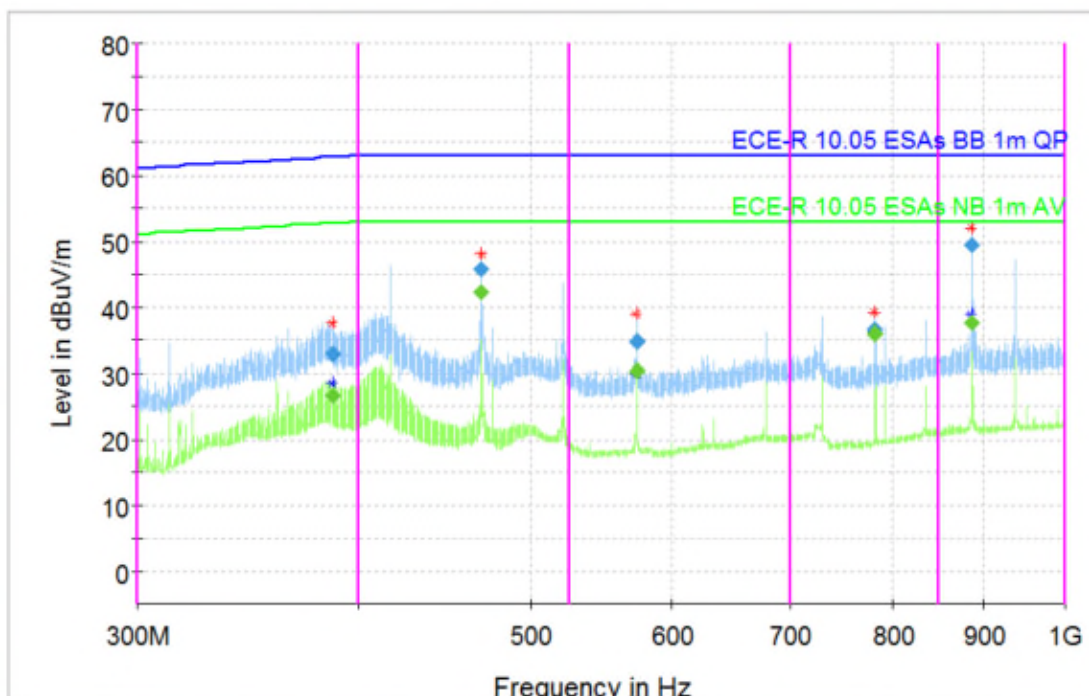
EMC Test Record (Emission)

Common Information

Manufacturer: Zhihang
 Test Item: Car DVD player
 Identification: DVN-A 1033P
 Test Standard: ECE R10.05
 Test Detail: Radiated Emission
 Operation Mode: USB
 Climate Condition: 23 degree, 53 %, 101 kPa
 Test Voltage/ Freq: DC 13.5 V
 Receipt No: 170121872
 Report No:
 Result: Pass
 Comment: Test distance is 1m, Horizontal

Subrange 1
 Frequency Range: 300M-1GHz
 Receiver: TUV ESU 26
 Transducer: TUV VULP9118A

Full Spectrum



- Preview Result 2H-AVG
- ◆ Critical_Freqs AVG
- ECE-R 10.05 ESAs BB 1m QP
- ECE-R 10.04 14 Frequency Range
- ◆ Final_Result AVG
- Preview Result 1H-PK+
- + Critical_Freqs PK+
- ECE-R 10.05 ESAs NB 1m AV
- ◆ Final_Result QPK

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Comment
386.050000	---	26.69	52.77	26.07	1000.0	120.000	H	18.3	3:15:54 - 11/24/2019
386.100000	32.94	---	62.77	29.82	1000.0	120.000	H	18.3	3:15:34 - 11/24/2019
469.000000	45.83	---	63.00	17.17	1000.0	120.000	H	19.7	3:15:38 - 11/24/2019
469.050000	---	42.34	53.00	10.66	1000.0	120.000	H	19.7	3:15:57 - 11/24/2019
573.250000	---	30.30	53.00	22.70	1000.0	120.000	H	21.2	3:16:01 - 11/24/2019
573.300000	34.73	---	63.00	28.27	1000.0	120.000	H	21.2	3:15:42 - 11/24/2019
781.700000	36.73	---	63.00	26.27	1000.0	120.000	H	23.8	3:15:46 - 11/24/2019
781.700000	---	35.89	53.00	17.11	1000.0	120.000	H	23.8	3:16:04 - 11/24/2019
885.950000	---	37.53	53.00	15.47	1000.0	120.000	H	25.1	3:16:07 - 11/24/2019
885.950000	49.39	---	63.00	13.61	1000.0	120.000	H	25.1	3:15:51 - 11/24/2019



Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

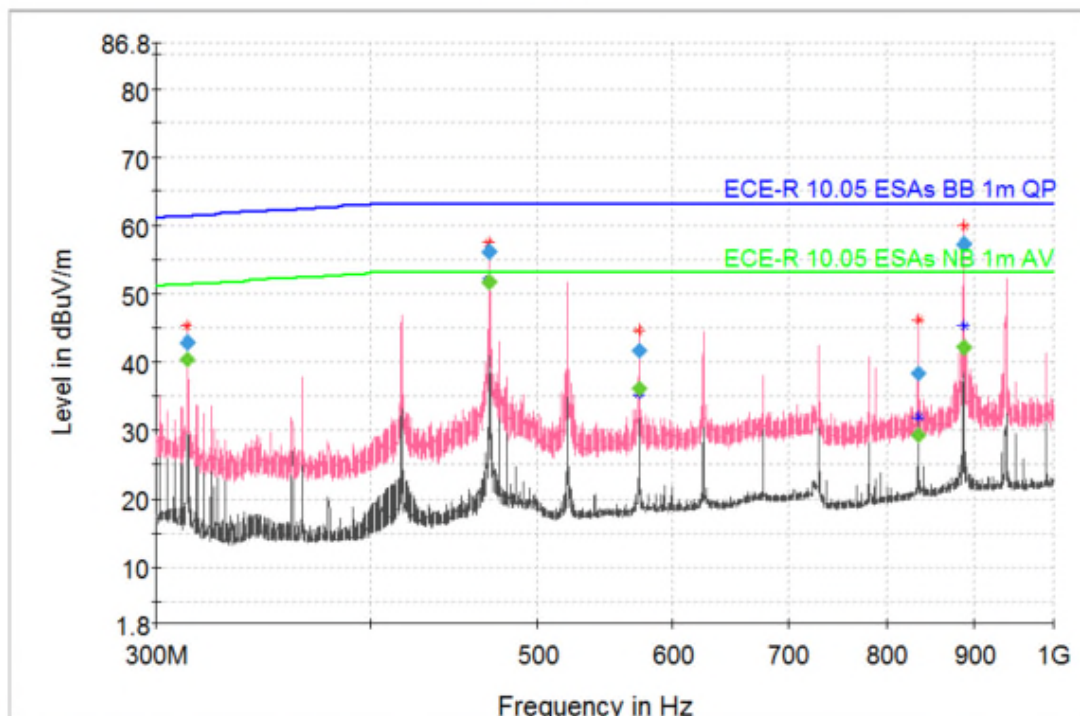
EMC Test Record (Emission)

Common Information

Manufacturer: Zhihang
 Test Item: Car DVD player
 Identification: DVN-A 1033P
 Test Standard: ECE R10.05
 Test Detail: Radiated Emission
 Operation Mode: USB
 Climate Condition: 23 degree, 53 %, 101 kPa
 Test Voltage/ Freq: DC 13.5 V
 Receipt No: 170121872
 Report No:
 Result: Pass
 Comment: Test distance is 1m, Vertical

Subrange 1
 Frequency Range: 300M-1GHz
 Receiver: TUV ESU 26
 Transducer: TUV VULP9118A

Full Spectrum



—	Preview Result 2V-AVG	—	Preview Result 1V-PK+
*	Critical_Freqs AVG	*	Critical_Freqs PK+
—	ECE-R 10.05 ESAs BB 1m QP	—	ECE-R 10.05 ESAs NB 1m AV
◆	Final_Result QPK	◆	Final_Result AVG

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB)	Comment
312.700000	---	40.32	51.38	11.06	1000.0	120.000	V	16.8	3:11:00 - 11/24/2019
312.700000	42.85	---	61.38	18.53	1000.0	120.000	V	16.8	3:10:39 - 11/24/2019
469.000000	---	51.83	53.00	1.17	1000.0	120.000	V	19.7	3:11:04 - 11/24/2019
469.050000	56.22	---	63.00	6.78	1000.0	120.000	V	19.7	3:10:44 - 11/24/2019
573.250000	---	36.11	53.00	16.89	1000.0	120.000	V	21.2	3:11:07 - 11/24/2019
573.300000	41.67	---	63.00	21.33	1000.0	120.000	V	21.2	3:10:48 - 11/24/2019
833.750000	---	29.36	53.00	23.64	1000.0	120.000	V	24.7	3:11:10 - 11/24/2019
834.100000	38.40	---	63.00	24.60	1000.0	120.000	V	24.7	3:10:52 - 11/24/2019
885.950000	---	42.12	53.00	10.88	1000.0	120.000	V	25.1	3:11:13 - 11/24/2019
885.950000	57.35	---	63.00	5.65	1000.0	120.000	V	25.1	3:10:57 - 11/24/2019

Maximum value (DC 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.		
999.75	53.70	---	56.83	3.12
999.70	---	51.83	53.00	1.17

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

2. Conducted emissions

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 systems	Measured Pulse amplitude True value
Positive	+75V	+ 1 V
Negative	-100V	-42.8 V

3. Immunity to electromagnetic radiation

 Test method : ISO 11452-4 3rd edition: 2005 and Corrigendum 1: 2009
 Bulk current injection testing method (from 20 to 400MHz)

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

Measurement result (12V):

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20~400	60mA	AM, 80%	150mm	/	Passed*
400~800	30volts/m	AM, 80%	1 m	Vertical	Passed*
800~2000	30volts/m	PM, 577µs	1 m	Vertical	Passed*

* no degradation of performance of 'immunity-related functions'.

Type : DVN-A 1033P

Manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.

4. Immunity to transient disturbances

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

Measurement result (12V):

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

Contents

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Guangzhou Zhihang Electronics Technology Co., Ltd
Information folder No. : IF-NECVOX-DVN-A 1033P-00

Issuing date: Nov 11th, 2019

INFORMATION DOCUMENT FOR TYPE-APPROVAL OF AN ELECTRIC/ELECTRONIC SUB-ASSEMBLY
WITH RESPECT TO ELECTROMAGNETIC COMPATIBILITY ACCORDING ECE-R10-05 Annex 2B

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

2. Type and general commercial description(s) : DVN-A 1033P
Car DVD player

Version(s) : Version 1: DVN-A X (variable X= 1000P, 1001P ... 1999P)
Version 2: EVR X (variable X = 5001N, 5002N ... 5999N)
Version 3: EVR X (variable X = 5001X, 5002X ... 5999X)

3. Means of identification of type if marked on the ~~vehicle~~/component/STU : Rating plate
- 3.1 Location of that marking : Rating plate affixed to the housing

4. Name and address of the manufacturer : Guangzhou Zhihang Electronics Technology Co., Ltd.
Unit 101&201&301, Zibian Building 20, No. 46, Xinye Road,
Yonghe Economic Zone, Guangzhou Economic and
Technology Development Zone, Guangzhou City,
Guangdong Province, 511356, China.

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) : Guangzhou Zhihang Electronics Technology Co., Ltd.
Unit 101&201&301, Zibian Building 20, No. 46, Xinye Road,
Yonghe Economic Zone, Guangzhou Economic and
Technology Development Zone, Guangzhou City,
Guangdong Province, 511356, 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 (negative ground)

10. Charger : ---

11. Charging current : ---

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

13. Nominal charging voltage : ---

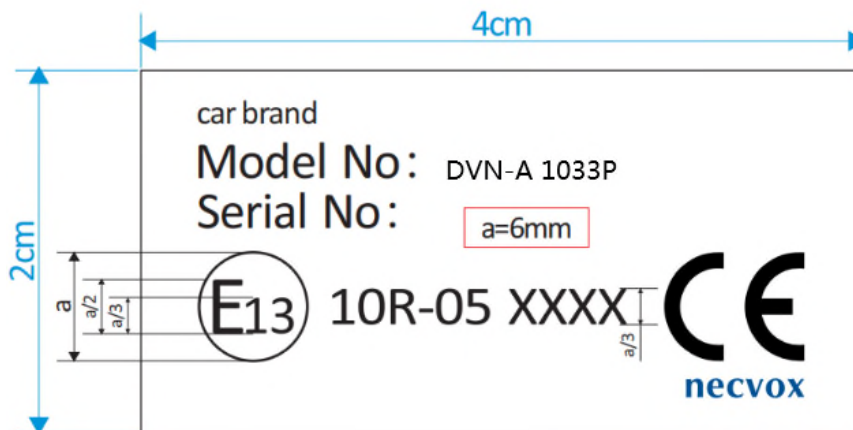
Type: DVN-A 1033P

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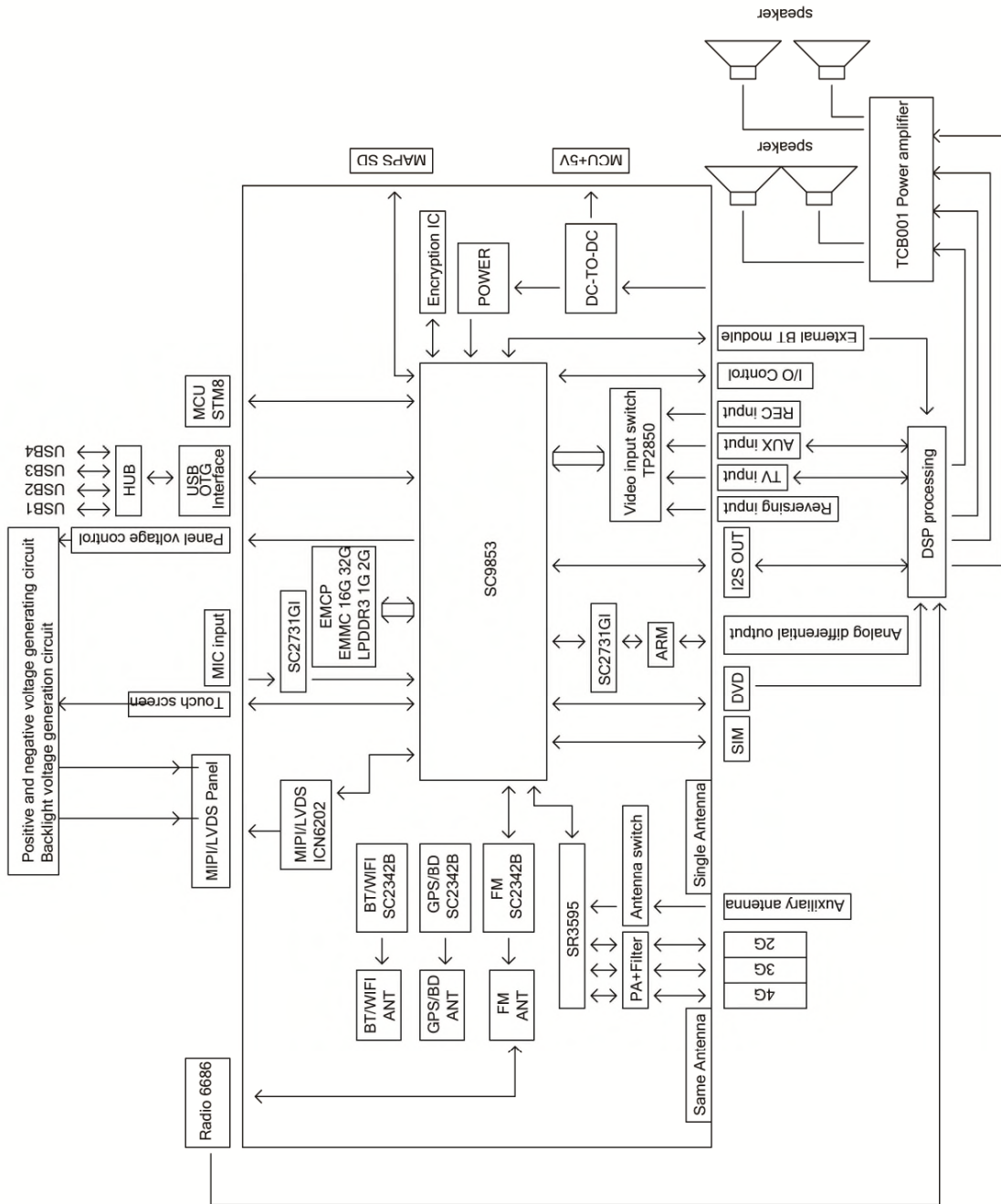
14. Basic ESA interface functions: ex. L1/L2 : ---
/L3/N/PE/control pilot
15. Minimum Rsce value (see paragraph : ---
7.11. of this Regulation)

- 1 Additional information
 - 1.1 Electrical system rated voltage : DC12V (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 car battery
 - 1.3 This ESA can be used on the following vehicle types : Not applicable
 - 1.3.1 Installation conditions : ---
 - 1.4 The specific test method(s) used and the frequency ranges covered to determine immunity were : Bulk current injection testing method (from 20 to 400MHz)
Free field testing method (from 400 to 2000MHz)

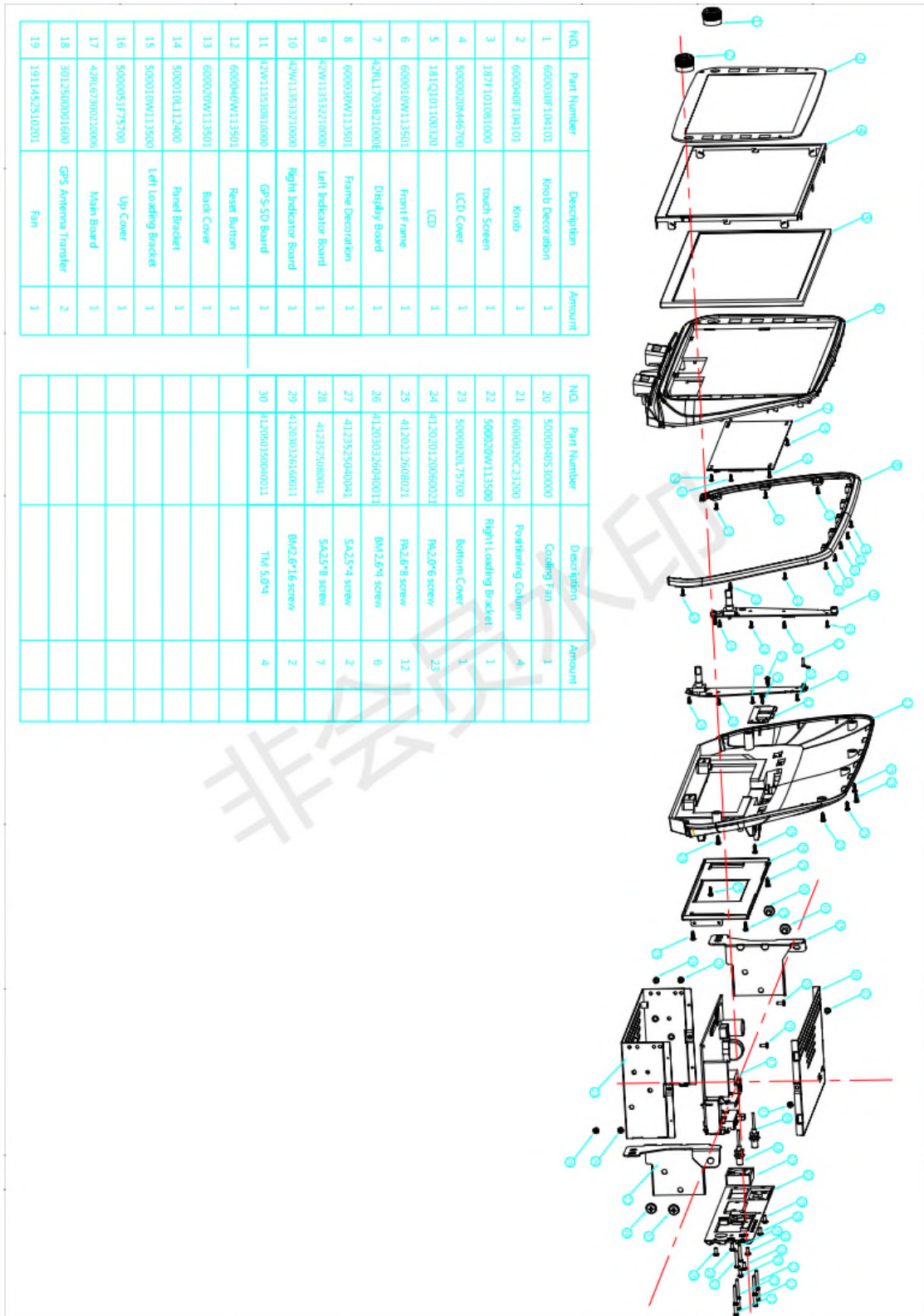
frequency range : 20-2000MHz
 - Remarks : All the versions are same except for the model name, appearance and color.



DRW.	1	Mark
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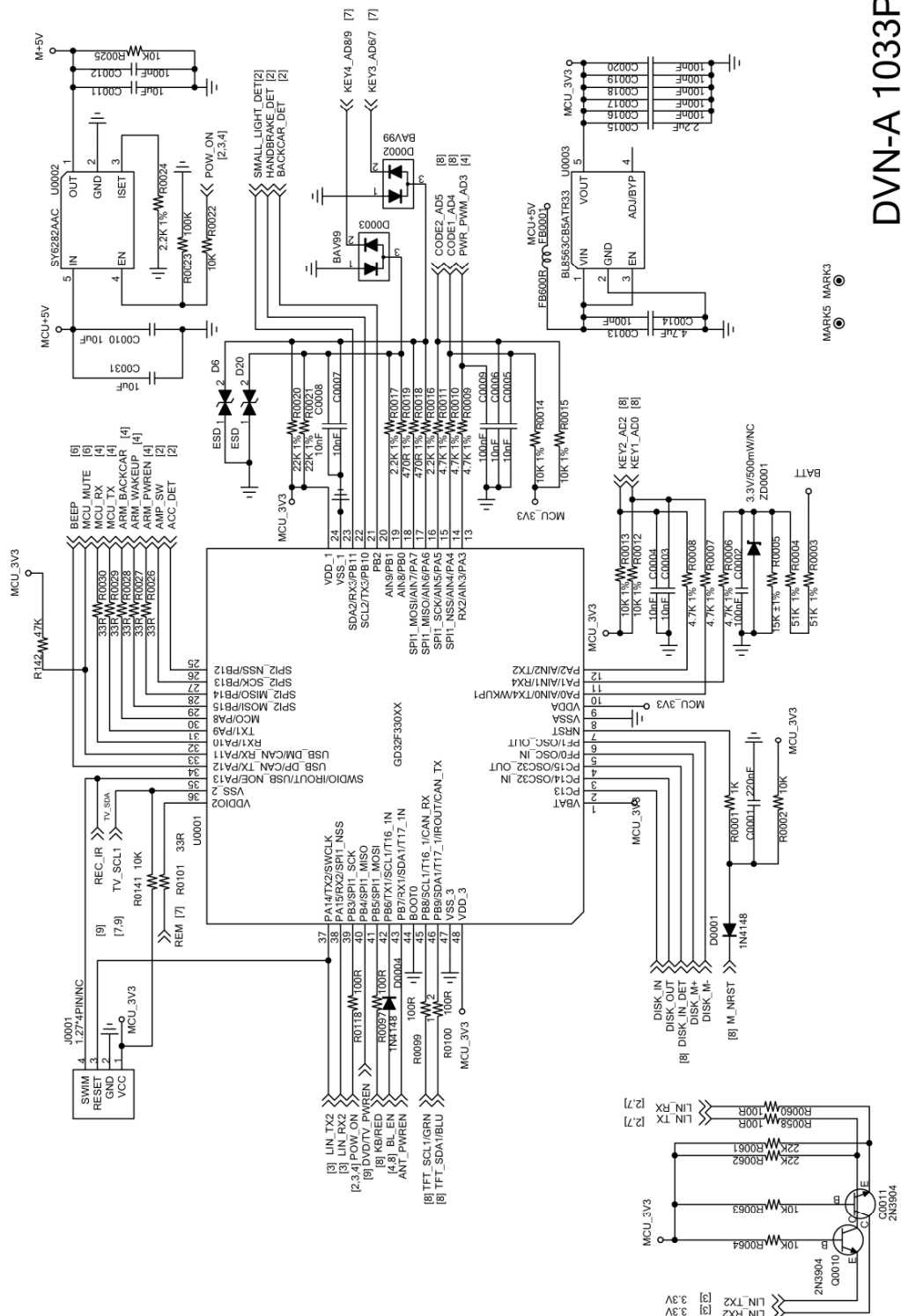


DRW.	2	Block Diagram
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NQ.	Part Number	Description	Amount
1	600030F104101	Knob Decoration	1
2	600040F104101	Knob	1
3	187F101081000	touch Screen	1
4	5000020M46700	LCD Cover	1
5	181Q101100320	LCD	1
6	600010W113501	Front Frame	1
7	42RL1703821000E	Display Board	1
8	600030W113501	Frame Decoration	1
9	42W11353210000	Left Indicator Board	1
10	42W11353310000	Right Indicator Board	1
11	42W113530810000	GPS-S0 Board	1
12	600040W113501	Rear Button	1
13	600020W113501	Back Cover	1
14	500010L112400	Panel Bracket	1
15	500010W113500	Left Loading Bracket	1
16	500005S1F75700	Up Cover	1
17	42R67300210006	Main Board	1
18	3012500001600	GPS Antenna Transfer	2
19	1911453510201	Fan	1

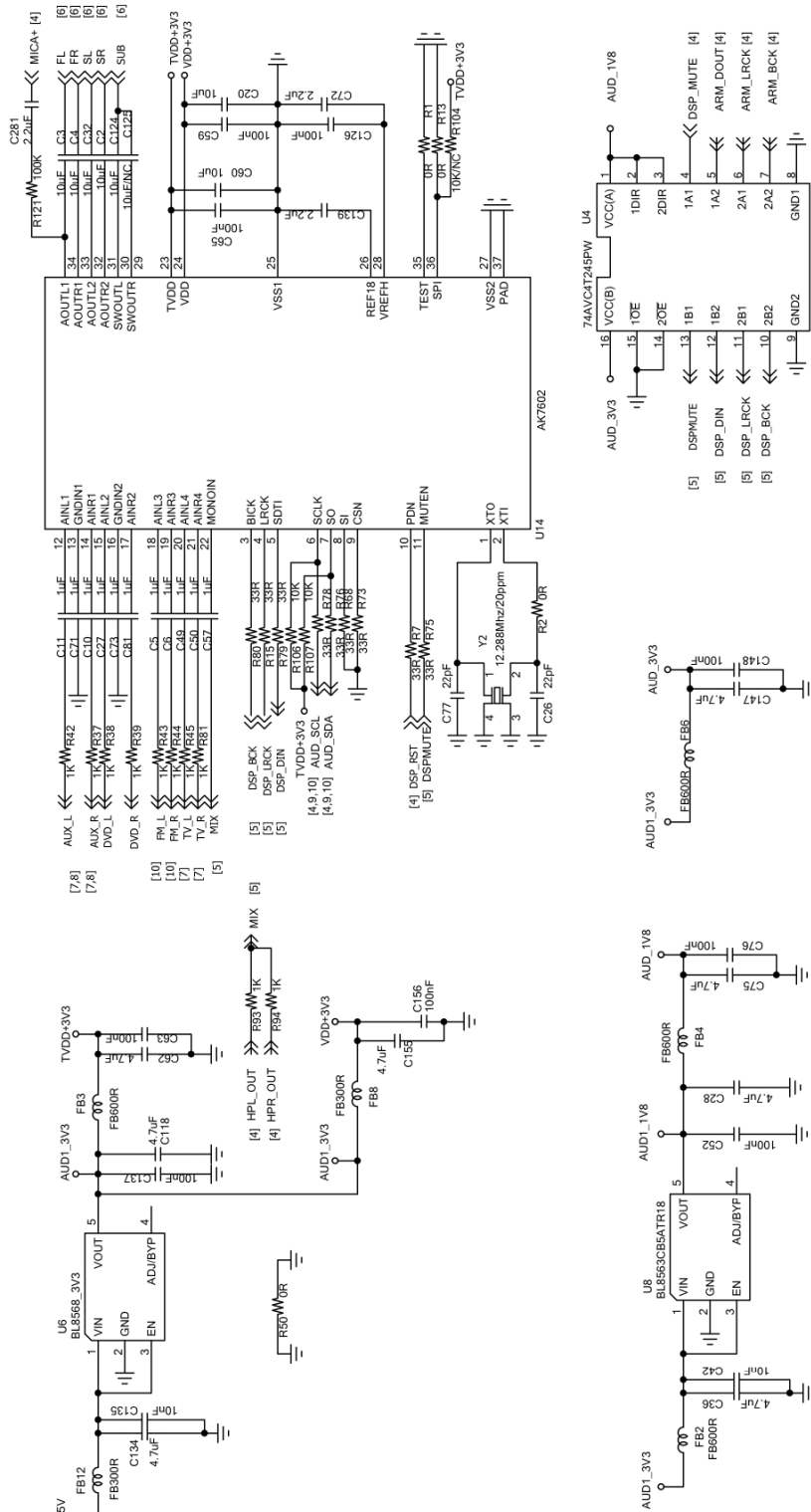
NQ.	Part Number	Description	Amount
20	5000040S30000	Cooling Fan	1
21	6000020C32200	Positioning Column	4
22	500020W113500	Right Loading Bracket	1
23	5000020L75700	Bottom Cover	1
24	412020120050021	PA20*6 screw	23
25	41202120608021	PA2.6*8 screw	12
26	412030326040011	BM2.6*4 screw	6
27	4123525040041	SA2.5*4 screw	2
28	4123525080041	SA2.5*8 screw	7
29	412030326160011	BM2.6*16 screw	2
30	412050350040031	TM 5.0*4	4



DVN-A 1033P

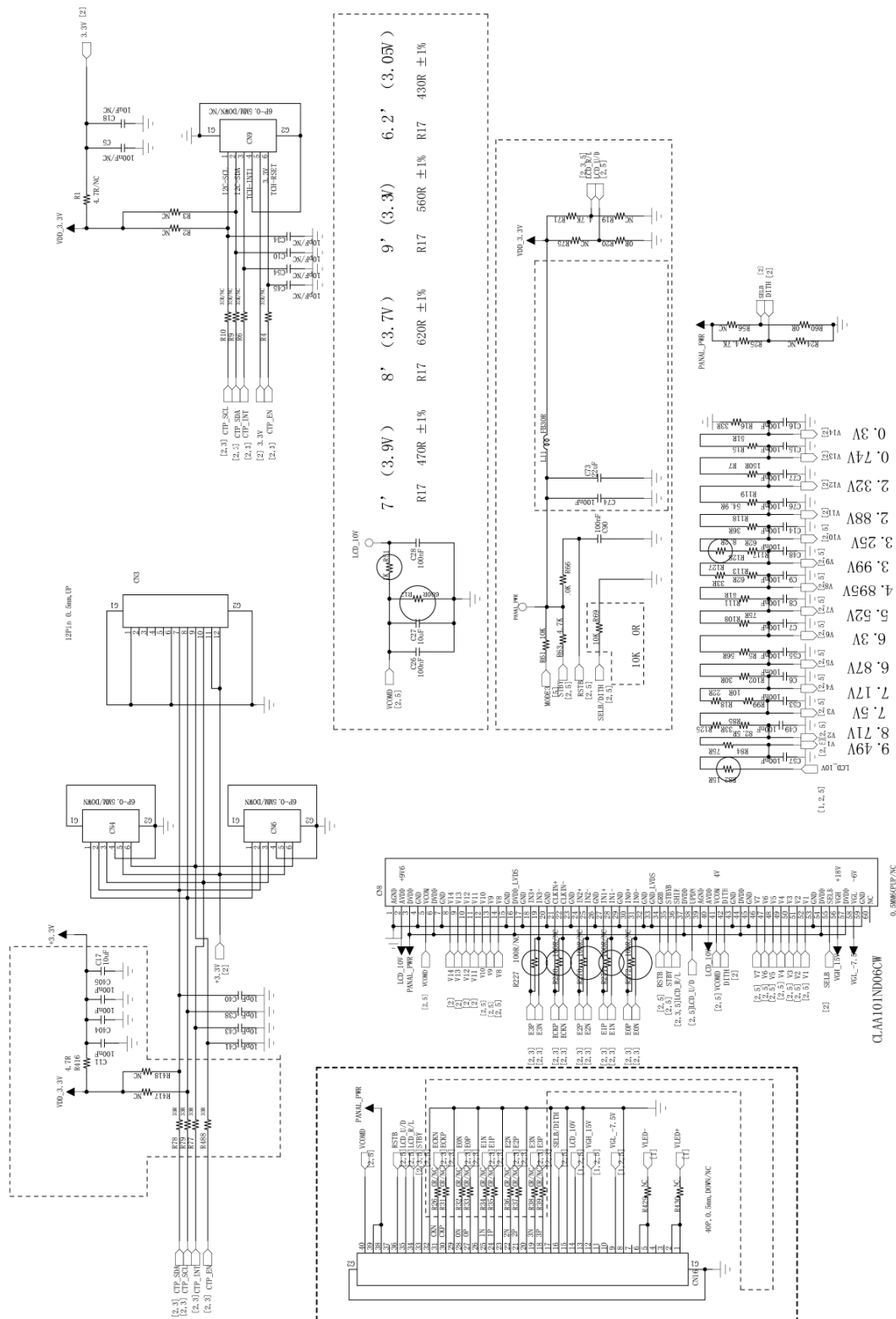
MARK5 MARK3

DRW.	5	Main board Circuit Diagram
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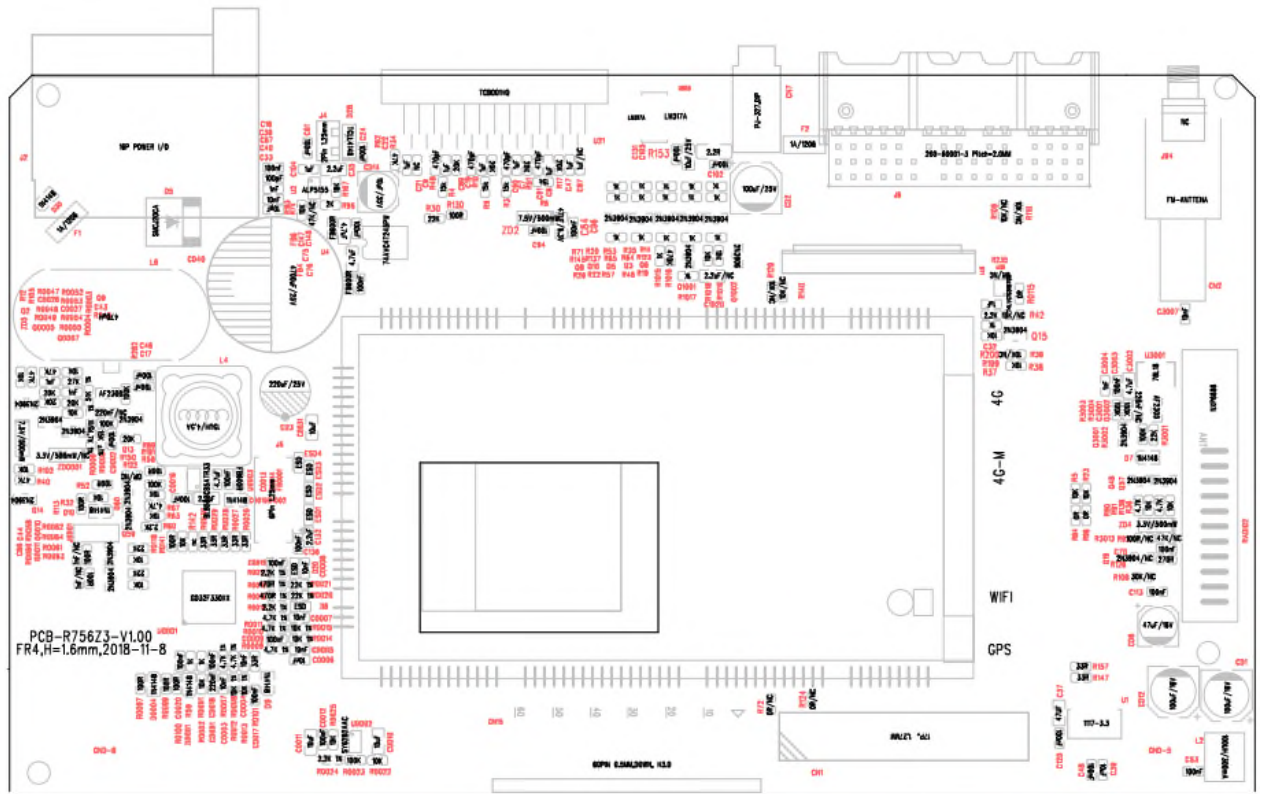
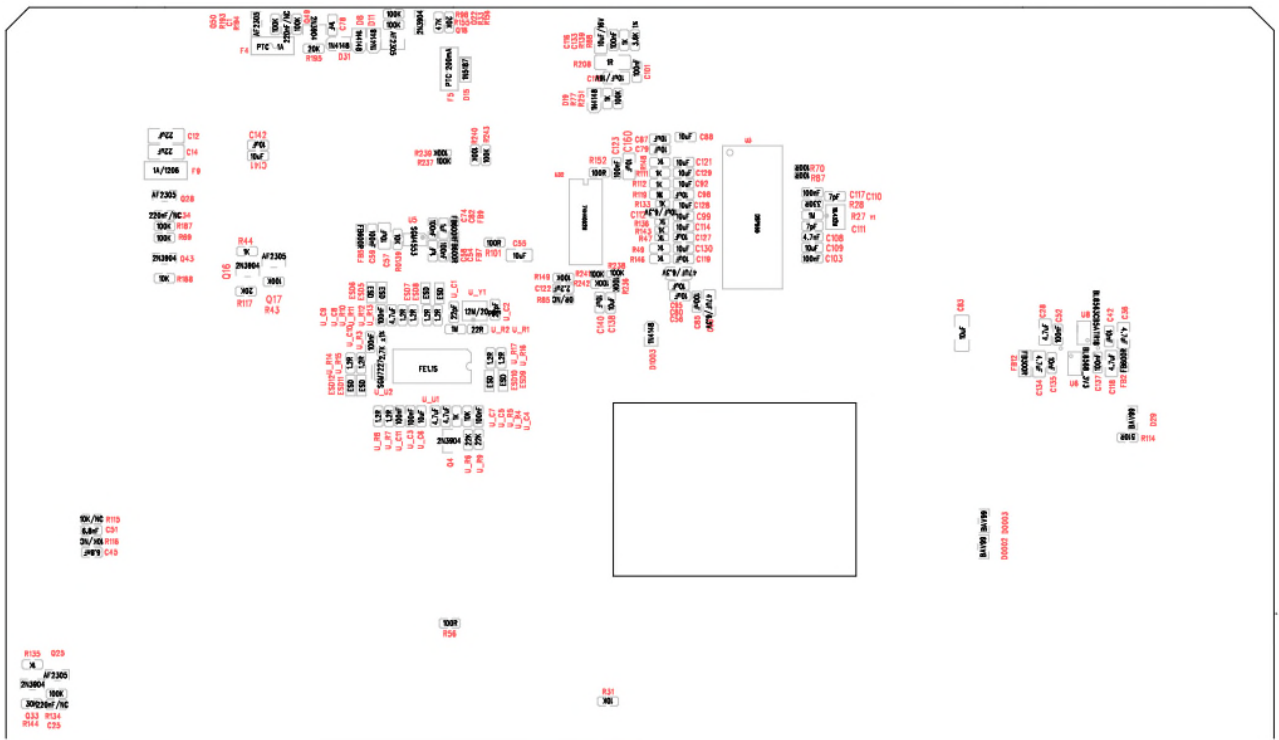


DVN-A 1033P

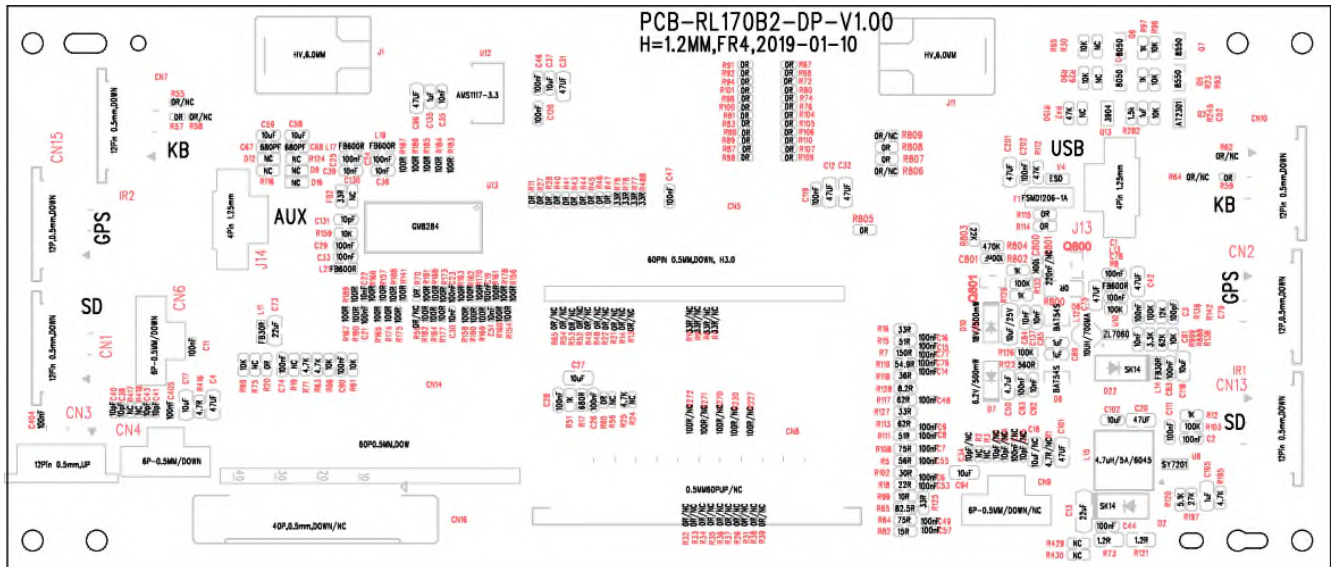
DRW.	6	Main board Circuit Diagram
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DRW. 7 Display board Circuit Diagram



DRW.	9	PCB Layout
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DRW.	10	PCB Layout
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Bill of Materials

NO	Part number	Part name	Description	Amount	Designator
1	1111610101500	Chip capacitors	10P/50V/NPO/±5%/0402	4.00	C38, C40, C41, C43
2	11102470102	Chip capacitors	4.7U/16V/X5R/±10%/0805	1.00	C50
3	11109101525	Chip capacitors	105/16V/X5R/±10%/0603	1.00	C52
4	11203681161	Chip capacitors	680P/50V/X7R/±10%/0603	2.00	C67, C68
5	11202022542	Chip capacitors	22U/6.3V/X5R/±20%/0805	1.00	C73
6	11203101161	Chip capacitors	100P/50V/NPO/±5%/0603	1.00	C79
7	1120010106100	Chip capacitors	10U/25V/X7R/±10%/1206	1.00	C82
8	11203101562	Chip capacitors	105/16V/X7R/±10%/0603	3.00	C85, C89, C135
9	11204101562	Chip capacitors	105/50V/X5R/±10%/0805	1.00	C165
10	33206120010	Terminal	12PIN/0.5MM/DOWN	3.00	CN7, CN10, CN15
11	33206120000	Terminal	12PIN/0.5/SMD/UP	1.00	CN3
12	3300060001300	Terminal	Terminal、FPC/6P-0.5MM/DOWN	1.00	CN4
13	3300600054800	Terminal	0.5MM*60PRear locking connector H2.0MM gold plated	2.00	CN5, CN8
14	13231400014	SMD	SK14 SMD diode/S	2.00	D2, D22
15	14200054001	SMD transistor	BAT54S/SOT23/S	2.00	D6, D8
16	13251206003	SMD Zener Diode	6.2V	1.00	D7
17	13251206008	SMD Zener Diode	DW/18V/1206D/S	1.00	D10
18	1921201000200	Resettable fuse	1A/1206	1.00	F1
19	33202020960	Terminal	HV-2/6.0mm/SHigh pressure seat is narrow	2.00	J1, J11
20	3310804094000	Terminal	4P/1.25MM socket	2.00	J13, J14
21	12203301092	SMD magnetic beads	FB30R/0603	2.00	L11, L14
22	1211121810000	SMD shielding inductance	SDRH2D18_10UH(700MA)	1.00	L12
23	1030160110400	SMD magnetic beads	0603/600R/100M/300MA	1.00	L13
24	1521547125600	SMD power inductor	SMD, 4.7UH, 2A, 6045, thickness < 5mm, SR6045TLF-4R7N	1.00	L15
25	14200230122	SMD transistor	AF2301/SMD MOS	1.00	Q2
26	14200805011	SMD transistor	8050/SOT23/S	2.00	Q4, Q6
27	14200855001	SMD transistor	8550/SOT23/S (500mA)	2.00	Q5, Q7
28	14200390411	SMD transistor	2N3904	2.00	Q13 Q801
29	10103561012	Chip resistor	56R/0603 ±5%	1.00	R5
30	10103151111	Precision Chip resistor	150R/0603 ±1%	1.00	R7
31	10103101412	Chip resistor	100K/0603 ±5%	6.00	R8, R103, R126, R132, R136 R801
32	10103101212	Chip resistor	1K/0603 ±5%	4.00	R12, R93, R97, R129

Type: DVN-A 1033P

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33	1010200001200	Chip resistor	0R/0402 ±5%	21.00	R13, R14, R21, R22, R48, R49, R52, R53, R54, R60, R65, R91, R92, R94, R98, R100, R101 R62, R64, R58, R55
34	10103511012	Chip resistor	51R/0603 ±5%	2.00	R15, R111
35	10103331012	Chip resistor	33R/0603 ±5%	4.00	R16, R125, R127, R102
36	1010259010010	Precision Chip resistor	590R 1/16W/0603 ±1%	1.00	R17
37	1010322101100	Precision Chip resistor	22R/0603 ±1%	1.00	R18
38	10103000012	Chip resistor	0R/0603 ±5%	8.00	R20, R69, R114, R115, R999 R805, R807, R808
39	10103101312	Chip resistor	10K/0603 ±5%	8.00	R23, R61, R66, R90, R95, R96, R138, R245
40	10102471202	Chip resistor	4.7K/0402 ±5%	1.00	R25
41	10101101201	Precision Chip resistor	1K/0603 ± 1%	2.00	R51 R802
42	10103471212	Chip resistor	4.7K/0603 ±5%	3.00	R63, R71, R195
43	1010401203100	Precision Chip resistor	1.2R/0805 ± 1%	2.00	R73, R121
44	10101331002	Chip resistor	33R/0402 ±5%	4.00	R77, R78, R79, R488
45	10103151011	Precision Chip resistor	15R/0603 ± 1%	1.00	R82
46	1010375101100	Chip resistor	75R/0603 ±1%	2.00	R84, R108
47	10101821001	Precision Chip resistor	82.5R/0603 ± 1%	1.00	R85
48	10103101012	Chip resistor	10R/0603 ±5%	1.00	R99
49	10103471312	Chip resistor	47K/0603 ±5%	2.00	R112, R150
50	10103621011	Precision Chip resistor	62R/0603 ± 1%	2.00	R113, R117
51	10103361012	Chip resistor	36R/0603 ±5%	1.00	R118
52	10101541001	Precision Chip resistor	54.9R/0603 ± 1%	1.00	R119
53	10103511212	Chip resistor	5.1K/0603 ±5%	1.00	R120
54	10103511113	Chip resistor	560R/0603 ±5%	1.00	R122
55	1010282002010	Chip resistor	8.2R, 1/16W, 0603, ±1%	1.00	R128
56	1010313131100	Chip resistor	Chip resistor13K/0603 ±1%	1.00	R142
57	10103271312	Chip resistor	27K/0603 ±5%	1.00	R197
58	1010210010200	Chip resistor	100R/1/16W/0402 ±5%	5.00	R227, R230, R270, R271, R272
59	10103151212	Chip resistor	1.5K/0603 ±5%	1.00	R282
60	10103470112	Chip resistor	4.7R/0603 ±5%	1.00	R416
61	1010310101100	Precision Chip resistor	100K, 0603, ±1%	1.00	R888
62	2172012260000	Power IC	SY7201, 2A, 30V, 1MHZ, SOT23-6, -40°C to 85°C	1.00	U8

Type: DVN-A 1033P

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63	2170600180000	Power IC	ZL7060/SOT23-5	1.00	U10
64	2217330100	Power IC	LD1117AL-3.3V SOT-223	1.00	U12
65	1270130021200	ESD	Andason ESL161203 0603 12V 3PF	1.00	V4
66	11203221462	Chip capacitors	224/16V/X7R/±10%/0603	1.00	C800
67	1310523050200	P channel patch field effect transistor	G2305, SOT-23(4.2A)	1.00	Q800
68	10103221312	Chip resistor	22K/0603 ±5%	1.00	R803
69	10103471412	Chip resistor	470K/0603 ±5%	1.00	R804
70	3012500001600	antenna	GPS antenna 150MM, SMA-KY0.9-150MM	2.00	
71	42RL67300210006	board	mainboard	1.00	
72	41RL75601210000	Processing board	mainboard	1.00	
73	5000091S10000	Hardware shield	S100 audio antenna Hardware shield	1.00	
74	4600040S10000	Barley paper	use in Radio antenna	1.00	
75	5000030K81000	IC bracket	K810IC bracket	1.00	
76	2166636250000	SMD IC	SMDIC DSP666 36PIN	1.00	U14
77	2132230110000	SMD IC	GD32E230CX TQFP48 9853	1.00	U0001
78	11203221462	Chip capacitors	224/16V/X7R/±10%/0603	1.00	C0001
79	11203101361	Chip capacitors	103/50V/X7R/±10%/0603	10.00	C40, C42, C135, C0004, C0005, C0006, C0007, C0008, C0003, C3007
80	1110147012000	Chip capacitors	4.7U/6.3V/X5R/±10%/0603	4.00	C0013, U_C7, U_C5, U_C8,
81	11203101462	Chip capacitors	104/25V/X7R/±10%/0603	37.00	C0020, C0018, C0017, C0019, C0012, C136, C0002, C17, C46, C52, C137, C0014, C0016, C0009, C120, C48, C53, C113, C70, C3003, C74, C54, C59, U_C9, U_C10, U_C4, U_C3, U_C11, C76, C148, C24, C61, C16, C65, C156, C63, C126
82	11203101261	Chip capacitors	102/50V/X7R/±10%/0603	8.00	C0027, C0026, C67, C78, C3004, C66, C64, C69
83	11102101072	Chip capacitors	10UF/16V/X5R/±10%/0805	6.00	C55, C0031, C0011, C0010, C68, C62
84	11202261462	Chip capacitors	22U/16V/Y5V/+80~-20%/1206	2.00	C12, C14
85	11102470102	Chip capacitors	4.7U/16V/X5R/±10%/0805	8.00	C28, C36, C75, C134, C118, C147, C3002, C155
86	1014010107200	Chip capacitors	10UF/6.3V/X5R/±20%/0603	9.00	U_C6, C39, C60, C20, C3, C4, C32, C2, C124
87	11203101061	Chip capacitors	10P/50V/NPO/±5%/0603	1.00	C33
88	11204221562	Chip capacitors	225/16V/X5R/±10%/0805	2.00	C0015, C35,
89	1110247162000	Chip capacitors	47UF/6.3V/X5R/±20%/0805	1.00	C37,

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90	11203101161	Chip capacitors	100P/50V/NPO/±5%/0603	1.00	C38
91	1120322156200	Chip capacitors	682/50V/X7R/±10%/0603	2.00	C45, C51
92	11203101562	Chip capacitors	105/16V/X7R/±10%/0603	21.00	C104, C22, C9, C19, C7, C8, C47, C97, C58, C82, C11, C71, C10, C27, C73, C5, C81, C6, C49, C50, C57
93	1120010106100	Chip capacitors	10U/25V/X7R/±10%/1206	1.00	C83
94	11213221563	Chip capacitors	225/25V/X7R/±10%/0603	4.00	C132, C72, C139, C281
95	11034101762	SMD aluminum electrolytic capacitor	100U/16V/6.3*5.4/±20%	2.00	CD1, CD12
96	11113221743	Plug-in aluminum electrolytic capacitor	220U/25V/6*12/±20%	1.00	CD3
97	11213471633	SMD aluminum electrolytic capacitor	47U/16V/5*5.4/5*5.3/±20%	1.00	CD8
98	11003471336	Plug-in aluminum electrolytic capacitor	4700U/25V/16*25/±20%	1.00	CD40
99	331D407084000	Plug antenna base	D407Radio antenna socket	1.00	CN2
100	33132710840	Terminal	PJ-327 socket	1.00	CN7
101	3300600054800	Terminal	0.5MM*60PRear locking connector H2.0MM gold plated	1.00	CN15
102	13279900014	SMD voltage regulator	BAV99	3.00	D0002, D0003, D29,
103	1920012000200	SMD anti-static diode	ESD, 0603	14.00	D6, D20, ESD1, ESD2, ESD3, ESD4, ESD8, ESD7, ESD5, ESD6, ESD9, ESD10, ESD11, ESD12,
104	1322015002140	SMD	SMCJ20A,SMD DO214AB	1.00	D5
105	13274148034	SMD Zener Diode	IN4148/0603/S	12.00	D0001, D0004, D9, D7, D8, D10, D30, D31, D1002, D19, D1003, D11
106	1210158170000	SMD Schottky diode	1N5817 SOD323/0805 SMD	1.00	D15
107	13274148024	SMD Zener Diode	IN4148/1206/S	1.00	D28
108	1921201000200	Resettable fuse	1A/1206	4.00	F1, F9, F4, F2,
109	19212020002	Resettable fuse	PTC 200mA 30V(Vdc max) 0.6-2.5Ω 1206 SMD(FSMD020-1206)	1.00	F5
110	10301601102	SMD magnetic beads	FB600R/0603 ±25%	8.00	FB0001, FB4, FB2, FB7, FB9, FB5, FB6, FB3
111	1030160110300	SMD magnetic beads	600R/FB-0805	2.00	FB12, FB8
112	33107160770	Terminal	16P/3635/POWER	1.00	J2
113	33108020440	Terminal	2P/1.25 Straight socket	1.00	J4
114	3300060003000	Terminal	6P/1.25MM, WAFER 1.25-6P	1.00	J5
115	3317600004800	Terminal	200-60001-3 Pitch=2.0MM 60P socket	1.00	J6
116	1511011001700	Chip inductor	100UH inductance SDRH5D28	1.00	L2
117	1512201001200	SMD power inductor	15uH/4.5A, SDRH127	1.00	L4
118	1520047149700	Plug-in inductor	Plug-in inductor DIP, 470uH/12A, without socket, 25mm*23mm	1.00	L6

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119	14200390411	SMD transistor	2N3904	23.00	Q0011, Q0010, Q59, Q60, Q0005, Q0007, Q13, Q2, Q8, Q10, Q5, Q3, Q6, Q1001, Q49, Q43, Q3001, Q48, Q57, Q33, Q14, Q4
120	1310523050200	P channel patch field effect transistor	G2305, SOT-23(4.2A)	5.00	Q9, Q25, Q28, Q50, Q3002
121	14200390611	SMD transistor	2N3906	1.00	Q1002
122	10103101212	Chip resistor	1K/0603 ±5%	33.00	R59, R0001, R26, R22, R57, R46, R19, R1017, R1015, R77, R71, R20, R145, R137, R53, R35, R65, R64, R14, R123, R44, U_R5, R135, R93, R94, R81, R45, R43, R39, R42, R37, R38, R117
123	10103101312	Chip resistor	10K/0603 ±5%	26.00	R0002, R1018, R1019, R0022, R0025, R0141, R0063, R0064, R0052, R0055, R58, R63, R102, R12, R32, R183, R188, R91, R36, R0139, U_R4, R5, R23, R31, R106, R107
124	10103151312	Chip resistor	15K/0603 ±5%	4.00	R3, R4, R6, R9
125	10103101112	Chip resistor	100R/0603 ±5%	10.00	R0097, R0099, R0100, R0060, R0058, R0118, R113, R52, R89, R56
126	10101151001	Precision Chip resistor	15K/0603 ± 1%	1.00	R0005
127	10103301312	Chip resistor	30K/0603 ±5%	1.00	R144
128	10103471212	Chip resistor	4.7K/0603 ±5%	3.00	R67, R90, R138,
129	10103471411	Precision Chip resistor	4.7K/0603 ± 1% Chip resistor	6.00	R0006, R0007, R0008, R0009, R0010, R0011,
130	1010210012010	Precision Chip resistor	RES, 10KΩ ± 1%, 1/16W, 0603	4.00	R0012, R0013, R0014, R0015
131	1010222002010	SMD precision resistor	RES, 2.2KΩ, ±1%, 1/16W, 0603	3.00	R0016, R0017, R0024,
132	10103201312	Chip resistor	20K/0603 ±5%	10.00	R150, R195, R48, R10, R51, R17, R0049, R0054, R0048, R156
133	10103101512	Chip resistor	1M/0603 ±5%	3.00	U_R2, R164, R165
134	10103331012	Chip resistor	33R/0603 ±5%	14.00	R0101, R0026, R0027, R0028, R0029, R0030, R157, R147, R76, R78, R7, R75, R68, R73
135	10101331002	Chip resistor	33R/0402 ±5%	3.00	R79, R15, R80
136	10103221312	Chip resistor	22K/0603 ±5%	5.00	R0061, R0062, U_R9, U_R6, R3001
137	10103471312	Chip resistor	47K/0603 ±5%	6.00	R40, R0047, R105, R62, R33, R142
138	1010227011010	Precision Chip resistor	2.7K/0603/1/16W ±1%	1.00	U_R3
139	10103221212	Chip resistor	2.2K/0603 ±5%	1.00	R60
140	10103101412	Chip resistor	100K/0603 ±5%	16.00	R0023, R245, R191, R193, R194, R155, R98, R187, R69, R3003, R3004, R3002, R134, R282, R251, R121

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141	10103000012	Chip resistor	0R/0603 ±5%	7.00	R84, R96, R2, R50, R13, R1, R72
142	10103201212	Chip resistor	2K/0603 ±5%	1.00	R95
143	10103511112	Chip resistor	510R/0603 ±5%	1.00	R114
144	10103271112	Chip resistor	270R/0603 ±5%	1.00	R126
145	1010222001010	Chip resistor	RES, 22K, 1%, 1/16W, 0603	2.00	R0020, R0021
146	10103471111	Precision Chip resistor	470R/0603 ± 1%	2.00	R0018, R0019
147	1010210051010	Chip resistor	RES,51K,±1%,1/16W,0603	2.00	R0003, R0004
148	10103271312	Chip resistor	27K/0603 ±5%	1.00	R0053
149	1010318131100	Chip resistor	18K/0603 ±1%	1.00	R167
150	2217330100	Power IC	LD1117AL-3.3V SOT-223	1.00	U1
151	2151563180000	Power IC	APL5155BI-TRG, SOT-23-5, -40 to 85°, 150mA, 25V	1.00	U2
152	2174424160000	SMD IC	74AVC4T245PW TSSOP16	1.00	U4
153	2145538000000	SMD IC	SMDIC SGM4553YN8G/TR SOT23-8	1.00	U5
154	2185683180000	SMD IC	POWER IC BL8568_3V3 SOT23-5	2.00	U6, U0003
155	2185635180000	SMD IC	POWER IC BL8563CB5ATR18 1.8V SOT23-5	1.00	U8
156	2162820180000	Power IC	Power IC, SY6282, 6.5V, SOT23-5	1.00	U0002
157	2178188220000	SMD IC	POWER IC 78L18 SOT-89	1.00	U3001
158	11203221061	Chip capacitors	22P/50V/NPO/±5%/0603	4.00	U_C1, U_C2, C26, C77
159	10103221012	Chip resistor	22R/0603 ±5%	1.00	U_R1
160	1010212011000	Chip resistor	RES,1.2R,±5%,1/16W,0603	10.00	U_R7, U_R8, U_R10, U_R11, U_R12, U_R13, U_R14, U_R15, U_R16, U_R17
161	2111280140000	SMD IC	FE1.1S USB_HUB SSOP28PIN	1.00	U_U1
162	2172210090000	SMD IC	SGM7227YUWQ10G/TR QFN10	1.00	U_U2
163	1411200006500	SMD crystal	SMD crystal12.00M, ±30ppm, -30+70°C, 20p, SMD-3225	1.00	U_Y1
164	1411228806900	SMD crystal	SMD crystal 12.288Mhz/20ppm 20PF 3525	1.00	Y2
165	13251206016	SMD Zener Diode	7.5V/1206 SMD Zener Diode/±2%	1.00	ZD5
166	13251206017	SMD Zener Diode	DW3.3V/05W/1206/S	1.00	ZD4
167	11213101653	SMD aluminum electrolytic capacitor	10U/35V/5*5/±20%	1.00	CD14
168	2300100060000	AMP IC	AMP IC, TOSHIBA, TCB001HQ, DIP	1.00	U21
169	10101471102	Chip capacitors	470P/50V/X7R/±10%/0603()	4.00	C21 C89 C90 C91
170	10103471412	Chip resistor	470K/0603 ±5%	1.00	R1016
171	11213221565	Chip capacitors	225/16V/X7R/±10%/0805	1.00	C1020

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172	1909476686001	Radio tuner	6686(TDQ—230V-186C)	1.00	
173	1928056313007	core board	Core board	1.00	
174	1902451500000	fuse	Fuse 15A / U shape straight plug	1.00	
175	42S1701121010	Processing board	Video adapter board	1.00	
176	41S1701121010	board	Video adapter board	1.00	
177	11102101072	Chip capacitors	10UF/16V/X5R/±10%/0805	5.00	C2, CD7, CD12, CD13, CD15
178	2166460180000	SMD IC	AX6646, SOT23-5L	2.00	U8, U11
179	10101151001	Precision Chip resistor	15K/0603 ± 1%	2.00	R242 R234
180	10103101212	Chip resistor	1K/0603 ±5%	1.00	R20
181	10103101312	Chip resistor	10K/0603 ±5%	3.00	R60, R66, R77
182	10103101512	Chip resistor	1M/0603 ±5%	1.00	R73
183	10103121212	Chip resistor	1.2K/0603 ±5%	1.00	R67
184	10103221312	Chip resistor	22K/0603 ±5%	1.00	R19
185	10103331012	Chip resistor	33R/0603 ±5%	3.00	R40, R74, R76
186	10103331312	Chip resistor	33K/0603 ±5%	1.00	R238
187	10103471012	Chip resistor	47R/0603 ±5%	1.00	R18
188	10103471212	Chip resistor	4.7K/0603 ±5%	2.00	R68, R75
189	10103361012	Chip resistor	36R/0603 ±5%	1.00	R80
190	10301601102	SMD magnetic beads	FB600R/0603 ±25%	4.00	FB9 R41, R100, R136
191	1030160110300	SMD magnetic beads	600R/FB-0805	4.00	FB1, FB14, FB15, FB16
192	1110247162000	Chip capacitors	47UF/6.3V/X5R/±20%/0805	2.00	CD6, E1
193	11203101161	Chip capacitors	100P/50V/NPO/±5%/0603	1.00	C192
194	11203101361	Chip capacitors	103/50V/X7R/±10%/0603 ()	1.00	C80
195	11203101462	Chip capacitors	104/25V/X7R/±10%/0603	22.00	C36, C51, C53, C54, C71, C77, C78, C79, C81, C82, C83, C84, C95, C96, C99, C100, C103, C111, C112, C113, C114, C215
196	11203181061	Chip capacitors	18P/50V/NPO/±5%/0603	2.00	C181, C191
197	11203271161	Chip capacitors	270P/50V/X7R/±10%/0603	1.00	C211
198	11203331061	Chip capacitors	33P/50V/NPO/±5%/0603	1.00	C206
199	11204221562	Chip capacitors	225/16V/X5R/±10%/0805	1.00	C85
200	12103181292	Chip inductor	1.8UH/0603	1.00	FB10
201	14200805011	SMD transistor	8050/SOT23/S	1.00	Q2

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202	2170260100000	video IC	LQFP/CH7026B-TF-80P	1.00	U10
203	2182840160000	SMD IC	IC, GM8284, TSSOP-56	1.00	U6
204	1010312131100	Chip resistor	12K/0603 ±1%	1.00	R240
205	3318170003800	Terminal	DIP, 17P foot , 1.25mm	1.00	
206	10103101112	Chip resistor	100R/0603 ±5%	5.00	R43, R139, R44, R137, R141
207	10103181312	Chip resistor	18K/0603 ±5%	1.00	R17
208	1411300006900	SMD crystal	SMD crystal 13M 3225 12PF 4PIN	1.00	Y4
209	1927001221000	Bluetooth module	GOC-RF210 (BT5.0)	1.00	
211	5300900000600	Packaging accessories	remote control (常用)	1.00	
212	32105010000	MIC	model:TS-010MR	1.00	
213	3010124001026	antenna	GPS antenna, GPS&GLONASS-C, SMA-JW-3M, RG174, L=3M	1.00	
218	4600010102001	Packaging accessories	10.2 inch Protective film	1.00	
219	3010124001027	antenna	Wi-Fi antenna SMA-JW6.0-5L	2.00	
220	58RL7560020110	Packaging accessories	circuit diagram	1.00	
221	59S300L010000	Packaging accessories	user manual	1.00	
222	6000310C21600	Plastic accessories	Loading plastic buckle	2.00	
223	860011W113500	Packaging accessories	Pearl cotton	1.00	
224	860021W113500	Packaging accessories	Pearl cotton	1.00	
225	8050020R03602	Packaging accessories	gift box	1.00	
227	3040160001726	Adapter cable	6Pins USB adapter cable	1.00	
228	3020122002157	cable	power socket	1.00	
229	5689680579000	CANBUS	for Tucson	1.00	
230	3040160001732	Adapter cable	audio video adapter cable with USB RCA	1.00	
233	3101121201800	flex	12PIN, 0.5MM, L=120MM, added 4MM	4.00	
234	3101601501100	flex	FFC, 60P, 0.5, 150A	1.00	
235	187F101081000	touch screen	10.1 inch touch screen	1.00	
236	600010W113501	plastic	front frame	1.00	
237	600020W113501	plastic	back cover	1.00	
238	600030W113501	plastic	frame decoration	1.00	
239	600040W113501	plastic	reset button	1.00	
240	600030F104101	Plastic accessories	knob decoration	2.00	
241	600040F104101	plastic	knob	2.00	

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243	6000011S13001	Plastic accessories	S130 SD card	1.00	
244	500010L112400	Hardware	Panel bracket	1.00	
245	5000020M46700	Hardware	LCD screen hardware cover	1.00	
246	5000051F75700	Hardware	up cover	1.00	
247	5000020L75700	shell	Hardware bottom shell	1.00	
248	1911452510201	fan	fan 2510, 2P1.25MM with cable 100MM Voltage: 10V speed: 9000-10000	1.00	
249	6000020C23200	Plastic accessories	Fan positioning column	4.00	
250	412030326040011	Screw	BM2.6*4	6.00	
251	412030326160011	Screw	BM2.6*16	2.00	
252	4123525080041	Screw	SA2.5*8	7.00	
253	4123525040041	Screw	SA2.5*4	2.00	
254	412020120060021	Screw	PA2.0*6	23.00	
255	4120212608021	Screw	PA2.6*8	12.00	
256	412050350040011	Screw	TM5.0*4	4.00	
258	5000040S30000	cooling fan	cooling fan	1.00	
259	500010W113500	Hardware	left Loading bracket	1.00	
260	500020W113500	Hardware	right Loading bracket	1.00	
261	181Q101100320	LCD	10.1inch LCD	1.00	
263	19910380000	IR Receiving head	Receiving head BRW-38N3.8V/P	1.00	
264	19160165042	mic	TS-60A6P10Z3-GP/6*5/	1.00	
265	3040160001395	antenna	GPS antenna 1.13 线, SMA-KY0.9 镍-200MM,13	1.00	
266	42W113532210000	Processing board	left indicator boardV1.00	1.00	
267	41W113532210000	board	left indicator boardV1.00	1.00	
268	11203101361	Chip capacitors	103/50V/X7R/±10%/0603 ()	3.00	C7, C15, C16
269	11102101072	Chip capacitors	10UF/16V/X5R/±10%/0805	1.00	C8
270	33206120010	Terminal	12PIN/0.5MM/DOWN	1.00	CN4
271	1210119210801	SMD LED	Pure white, luminous intensity: 90--180mcd; maximum current: 100mA; front luminescence, 0603 SMD (19-218 / T1D-CQ2R2TY / 3T)	8.00	LED5, LED6, LED19, LED20, LED23, LED24, LED25, LED26
272	10103000012	Chip resistor	0R/0603 ±5%	2.00	R16, R62
273	10103511113	Chip resistor	560R/0603 ±5%	4.00	R21, R28, R32, R36
274	10103331112	Chip resistor	330R/0603 ±5%	3.00	R27, R31, R35

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275	1010211012010	Precision Chip resistor	11K/0603/1/16W ±1%	1.00	R33
276	10103101112	Chip resistor	100R/0603 ±5%	1.00	R49
277	16001112450	Plug-in coding switch	Straight plug 11 rotary encoder switch high24.5MM RE11P15L20F10VS	1.00	SW1
278	42W113533210000	Processing board	right indicator boardV1.00	1.00	
279	41W113533210000	board	right indicator boardV1.00	1.00	
280	33206120010	Terminal	12PIN/0.5MM/DOWN	1.00	CN10
281	1210119210801	SMD LED	Pure white, luminous intensity: 90--180mcd; maximum current: 100mA; front luminescence, 0603 SMD (19-218 / T1D-CQ2R2TY / 3T)	8.00	LED8, LED10, LED12, LED14LED7, LED9, LED11, LED13
282	10103331112	Chip resistor	330R/0603 ±5%	4.00	R9, R13, R17, R19
283	10103511113	Chip resistor	560R/0603 ±5%	4.00	R12, R15, R18, R22
284	1010227011010	Precision Chip resistor	2.7K/0603/1/16W ±1%	1.00	R63
285	10103471411	Precision Chip resistor	4.7K/0603 ± 1%Chip resistor	1.00	R67
286	1010347101100	Precision Chip resistor	47K/0603 ±1%	1.00	R68
287	1620402000020	SMD button	button / 3*6*4.3	1.00	S2
288	16004112500	Plug-in reset switch	Inline 11 type reset switch high 25MM RS11L20F10VS	1.00	SW5
289	42W113530810000	Processing board	GPS-SD board V1.00	1.00	
290	41W113530810000	board	GPS-SD board V1.00	1.00	
291	11203101361	Chip capacitors	103/50V/X7R/±10%/0603 ()	2.00	C2, C10
292	11102101072	Chip capacitors	10UF/16V/X5R/±10%/0805	2.00	C3, C11
293	11203101061	Chip capacitors	10P/50V/NPO/±5%/0603	4.00	C4, C5, C12, C13
294	33216004009	Terminal	SD 卡座 (小) TF A102-206017-001	1.00	CN1,
295	33206120010	Terminal	12PIN/0.5MM/DOWN	2.00	CN2 CN5
296	10101241001	Precision Chip resistor	24.9R/0603 ± 1%	12.00	R1, R3, R5, R6, R10, R11, R14, R23, R24, R25, R26, R43
297	3110411018000	Adapter cable	180MM	1.00	
298	42RL1703821000E	Processing board	display board	1.00	
299	41RL17038210000	board	display board	1.00	
300	11203101462	Chip capacitors	104/25V/X7R/±10%/0603	18.00	C1, C2, C3, C26, C28, C44, C46, C47, C74, C78, C83, C90, C93, C111, C119, C120, C202 C801
301	1110247162000	Chip capacitors	47UF/6.3V/X5R/±20%/0805	10.00	C4, C12, C20, C31, C32, C42, C75, C96, C101, C201
302	11202101462	Chip capacitors	104/16V/X7R/±10%/0402	17.00	C6, C7, C8, C9, C14, C15, C16, C48, C49, C53, C55, C57, C76, C77, C11, C404, C405
303	11202261462	Chip capacitors	22U/16V/Y5V/+80~-20%/1206	1.00	C13

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304	11102101072	Chip capacitors	10UF/16V/X5R/±10%/0805	4.00	C17, C27, C94, C118
305	11203101361	Chip capacitors	103/50V/X7R/±10%/0603 ()	5.00	C35, C81, C84, C92, C137
306	1014010107200	Chip capacitors	10UF/6.3V/X5R/±20%/0603	4.00	C37, C58, C59, C102
272	10103000012	Chip resistor	0R/0603 ±5%	2.00	R16, R62
273	10103511113	Chip resistor	560R/0603 ±5%	4.00	R21, R28, R32, R36
274	10103331112	Chip resistor	330R/0603 ±5%	3.00	R27, R31, R35
275	1010211012010	Precision Chip resistor	11K/0603/1/16W ±1%	1.00	R33
276	10103101112	Chip resistor	100R/0603 ±5%	1.00	R49
277	16001112450	Plug-in coding switch	Straight plug 11 rotary encoder switch high24.5MM RE11P15L20F10VS	1.00	SW1
278	42W113533210000	Processing board	right indicator boardV1.00	1.00	
279	41W113533210000	board	right indicator boardV1.00	1.00	
280	33206120010	Terminal	12PIN/0.5MM/DOWN	1.00	CN10
281	1210119210801	SMD LED	Pure white, luminous intensity: 90--180mcd; maximum current: 100mA; front luminescence, 0603 SMD (19-218 / T1D-CQ2R2TY / 3T)	8.00	LED8, LED10, LED12, LED14LED7, LED9, LED11, LED13
282	10103331112	Chip resistor	330R/0603 ±5%	4.00	R9, R13, R17, R19
283	10103511113	Chip resistor	560R/0603 ±5%	4.00	R12, R15, R18, R22
284	1010227011010	Precision Chip resistor	2.7K/0603/1/16W ±1%	1.00	R63
285	10103471411	Precision Chip resistor	4.7K/0603 ± 1%Chip resistor	1.00	R67
286	1010347101100	Precision Chip resistor	47K/0603 ±1%	1.00	R68
287	1620402000020	SMD button	button / 3*6*4.3	1.00	S2
288	16004112500	Plug-in reset switch	Inline 11 type reset switch high 25MM RS11L20F10VS	1.00	SW5
289	42W113530810000	Processing board	GPS-SD board V1.00	1.00	
290	41W113530810000	board	GPS-SD board V1.00	1.00	
291	11203101361	Chip capacitors	103/50V/X7R/±10%/0603 ()	2.00	C2, C10
292	11102101072	Chip capacitors	10UF/16V/X5R/±10%/0805	2.00	C3, C11
293	11203101061	Chip capacitors	10P/50V/NPO/±5%/0603	4.00	C4, C5, C12, C13
294	33216004009	Terminal	SD 卡座 (小) TF A102-206017-001	1.00	CN1,
295	33206120010	Terminal	12PIN/0.5MM/DOWN	2.00	CN2 CN5
296	10101241001	Precision Chip resistor	24.9R/0603 ± 1%	12.00	R1, R3, R5, R6, R10, R11, R14, R23, R24, R25, R26, R43
297	3110411018000	Adapter cable	180MM	1.00	
298	42RL1703821000E	Processing board	display board	1.00	
299	41RL17038210000	board	display board	1.00	

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300	11203101462	Chip capacitors	104/25V/X7R/±10%/0603	18.00	C1, C2, C3, C26, C28, C44, C46, C47, C74, C78, C83, C90, C93, C111, C119, C120, C202 C801
301	1110247162000	Chip capacitors	47UF/6.3V/X5R/±20%/0805	10.00	C4, C12, C20, C31, C32, C42, C75, C96, C101, C201
302	11202101462	Chip capacitors	104/16V/X7R/±10%/0402	17.00	C6, C7, C8, C9, C14, C15, C16, C48, C49, C53, C55, C57, C76, C77, C11, C404, C405
303	11202261462	Chip capacitors	22U/16V/Y5V/+80~-20%/1206	1.00	C13
304	11102101072	Chip capacitors	10UF/16V/X5R/±10%/0805	4.00	C17, C27, C94, C118
305	11203101361	Chip capacitors	103/50V/X7R/±10%/0603 ()	5.00	C35, C81, C84, C92, C137
306	1014010107200	Chip capacitors	10UF/6.3V/X5R/±20%/0603	4.00	C37, C58, C59, C102