



Repubblica di San Marino
Autorità per l'Omologazione
Republic of San Marino
Authority for Homologation

Via Consiglio dei Sessanta, 99
47891 Dogana - Repubblica di San Marino

Comunicazione
Communication

	Concernente ^{2/} Concerning ^{2/}	Il rilascio dell'omologazione <i>Approval granted</i> L'estensione dell'omologazione <i>Approval extended</i> Il rifiuto dell'omologazione <i>Approval refused</i> La revoca dell'omologazione <i>Approval withdrawn</i> La cessazione definitiva della produzione <i>Production definitively discontinued</i>
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of a type of electrical/electronic sub-assembly ⁽²⁾ with regard to Regulation no. 10.06

Omologazione N. <i>Approval No.</i>	E57*10R06/02*0309	Estensione N. <i>Extension No.</i>	00
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Marchio di omologazione <i>Approval mark</i>	10R – 06 0309
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1. Make (trade name of manufacturer): **Rong Sheng**, (RS)
2. Type and general commercial description(s): Type: RS-RM2511-EU
Commercial description: Electronic rearview mirror
3. Means of identification of type, if marked on the vehicle/component/separate technical unit ⁽²⁾ Approval mark
 - 3.1 Location of that marking: Stuck on the enclosure
4. Category of vehicle: See Appendix

5. Name and address of manufacturer: **Guangzhou Rongsheng Technology Co.,Ltd.**
4th Floor, G Building, JiYi Industrial Park, No.
270 Changjiang Road, Panyu District, Guangzhou City,
Guangdong Province China 511447.
6. In the case of components and separate technical units, location and method of affixing of the approval mark: Stuck on the enclosure
7. Address(es) of assembly plant(s): 4th Floor, G Building, JiYi Industrial Park, No.
270 Changjiang Road, Panyu District, Guangzhou City,
Guangdong Province China 511447.
8. Additional information (where applicable): See appendix below
9. Technical Service responsible for carrying out the tests: **AUTOMOTIVE TECHNICAL SERVICE S.r.l.**
Via Consiglio dei Sessanta, 99
47891 – DOGANA Repubblica di San Marino
10. Date of test report: 22/02/2023
11. No. of test report: ATS-SM-IR-10-05657
12. Remarks (if any): See appendix below
13. Place: DOGANA – Repubblica di San Marino
14. Date: 24/02/2023
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: Not Applicable

(2) *Strike out what does not apply.*



Ing. Marco CONTI
Direttore Generale
General Director

**Appendix to type-approval communication form No. E57*10R06/02*0309*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 24V. pos/neg ground⁽²⁾
- 1.2. This ESA can be used on any vehicle type with the following restrictions: Not Applicable
- 1.2.1. Installation conditions, if any: --
- 1.3. This ESA can be used only on the following vehicle type: M, N vehicle
- 1.3.1. Installation conditions, if any: See Information Document
- 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): See Inspection Report No. ATS-SM-IR-10-05657
- 1.5. Laboratory accredited to ISO 17025 and recognised by the Approval Authority responsible for carrying out the tests: Guangzhou Shuntai Quality Technical Service Co, Ltd
- 2. Remarks:** None

(2) *Strike out what does not apply.*

LIBERTAS
REPUBBLICA
DI SAN MARINO

Allegato <i>Enclosure</i>			
Al certificato di omologazione ECE N. <i>To ECE approval certificate No.</i>		E57*10R06/02*0309*00	
Indice del fascicolo di omologazione <i>Index to the information package</i>			
Data <i>Date of issue</i>	24/02/2023	Data ultima modifica <i>Last amendment date</i>	--
1.	Clausole di garanzia e istruzioni sul diritto di presentare ricorso <i>Collateral clauses and instruction on right to appeal</i>		
2.	Rapporto(i) Finale di Ispezione No. <i>Test report(s) No.</i>	ATS-SM-IR-10-05657	Data <i>Date</i> 22/02/2023
3.	Scheda informativa N. <i>Information document No.</i>	RS-RM2511-EU-00	Data <i>Date</i> 04/02/2023
			Data ultima modifica <i>Last amendment date</i> --



Clausole di garanzia e istruzioni sul diritto di presentare ricorso

Clausole di garanzia

La produzione in serie deve essere esattamente conforme ai documenti di omologazione. Le variazioni di produzione in serie sono consentite solo con il consenso espresso del **Autorità per l'Omologazione**.

Le variazioni del nome della società, l'indirizzo e lo stabilimento di produzione, nonché una delle parti che hanno l'autorità alla consegna o eventuali rappresentanti nominati al momento del rilascio dell'omologazione, devono essere immediatamente comunicate al **Autorità per l'Omologazione**. La violazione di queste regole può portare al ritiro dell'omologazione ed inoltre può essere legalmente perseguita.

L'omologazione decade se viene restituita o ritirata o se il tipo omologato non è più conforme ai requisiti di legge. La revoca può essere fatta se non esistono più i requisiti richiesti per il rilascio e la continuazione dell'omologazione, se il titolare dell'omologazione viola gli obblighi dettati dall'omologazione, anche nel caso in cui gli obblighi derivino dalle condizioni assegnate all'interno dell'omologazione, o se è accertato che il tipo approvato non è conforme ai requisiti di sicurezza del traffico e di tutela dell'ambiente.

L'**Autorità per l'Omologazione** può verificare la corretta applicazione della delega conferita rilasciata nella presente omologazione, in qualsiasi momento. In particolare, questo include la verifica della produzione, che sia conforme, nonché le misure di controllo di conformità della produzione. Per questo, possono essere presi dei campioni dalla produzione. I dipendenti o rappresentanti dell'**Autorità per l'Omologazione** possono avere accesso senza ostacoli agli impianti di produzione e stoccaggio.

La delega conferita contenuta nella presente omologazione non è trasferibile. I diritti del marchio di terzi non sono interessati da questa omologazione.

Istruzione su diritto di ricorso

Questa omologazione è appellabile entro un mese dalla notifica. Il ricorso deve essere presentato per iscritto o come una domanda inviata all' **Autorità per l'Omologazione** - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.

Collateral clauses and instruction on right to appeal

Collateral clauses

*The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the **Authority for Homologation**.*

*Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorized representative named when the approval was granted is to be immediately disclosed to the **Authority for Homologation**. Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.*

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

*The **Authority for Homologation** may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the **Authority for Homologation** may get unhindered access to the production and storage facilities.*

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

*This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Authority for Homologation** - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.*

Inspection Report No.: AT5-SM-IR-10-05657

Of: 22/02/2023

Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.



Inspection Report

No. AT5-SM-IR-10-05657

Rel. 00

Inspection concerning ~~vehicles~~/ components with regard to:

Uniform provisions concerning Electromagnetic Compatibility (EMC) for M, N, O, L vehicle categories

performed according to

ECE Regulation No. 10

as last amended by

06 series of amendments

of the Economic Commission for Europe

Approval status	
ECE	Number of approval
	E57*10R06/02*0309*00

Inspection Report No.: ATS-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

0. General information

0.1. Make (trade name of manufacturer):



0.2. Type:

RS-RM2511-EU

0.2.1. Variant(s):

RS-RM2511-EU, RS-RM2511

0.3. Name and address of manufacturer:

Guangzhou Rongsheng Technology Co.,Ltd.
4th Floor, G Building, JiYi Industrial Park, No.
270 Changjiang Road, Panyu District, Guangzhou City,
Guangdong Province China 511447.

0.3.1. Name and address of manufacturer's authorized representative: N/A

0.3.2. Production plant(s) address(es):

4th Floor, G Building, JiYi Industrial Park, No.
270 Changjiang Road, Panyu District, Guangzhou City,
Guangdong Province China 511447.

0.4. No. of the information document:

RS-RM2511-EU-00 Date: 04/02/2023

0.5. Position of the approval mark:

See Drawings of the ESA

0.6. Vehicle category(ies)

M, N

(or, if not applicable, vehicle categories which the component(s) is (are) suitable for):

Inspection Report No.: ATS-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

Test Report Content

1. Test Condition

1.1. Test sample: The model of test report is according to customer's requirements.
EUT work normally, the EUT properly.

1.2. Test procedures used: ECE R10.06

1.3. Specimen submitted to test on: RS-RM2511-EU

1.4. Place of test: Guangzhou Shuntai Quality Technical Service Co, Ltd.

1.5. Date of test: 18/02/2023

2. Test records

2.1. Equipment for measuring and testing: The test facilities / measurement equipment used were in testing compliance with the test requirements.

2.2. Conformity with the technical sheet and attached drawings: SI / YES ~~NO / NO~~ ~~NR / NA~~

2.3 Test results

2.3.1. Broadband electromagnetic interference generated by ESAs

2.3.1.1. Method of measurement: Measured by the method described in Annex 7 of ECE Regulation No. 10.

2.3.1.2. Results: Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.3.2. Narrowband electromagnetic interference generated by ESAs

2.3.2.1. Method of measurement: Measured by the method described in Annex 8 of ECE Regulation No. 10.

2.3.2.2. Results: Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.3.3. Immunity of ESAs to electromagnetic radiation:

2.3.3.1. Method of measurement: Measured by the method described in Annex 9 of ECE Regulation No. 10.

2.3.3.2. Performance criteria: ECE Regulation No. 10.

2.3.3.3. Results: Conform / ~~Not Conform~~
(Test data see Appendix 2)

Inspection Report No.: AT5-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

2.3.4. Immunity of ESAs to transient disturbances

2.3.4.1. Method of measurement: Measured by the method described in Annex 10 of ECE Regulation No. 10.

2.3.4.2. Results: Conform / ~~Not Conform~~
(Test data see Appendix 2)

2.3.5. Emission of transient conducted disturbances generated by ESAs

2.3.5.1. Method of measurement: Measured by the method described in Annex 10 of ECE Regulation No. 10.

2.3.5.2. Results: Conform / ~~Not Conform~~
(Test data see Annex 2)

3. Remark concerning tested object(s)

All versions of the samples as stated in the information document are covered with the tested version(s) and test object(s) respectively.

Inspection Report No.: ATS-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

4. Other information

Place of inspection: Guangzhou Shuntai Quality Technical Service Co, Ltd.

Date of inspection: 21/02/2023

	Senior Inspector	Junior Inspector (if applicable)
Technical service representative(s):	Cheryl Deng	N/A

Manufacturer's representative: N/A

Remarks: None

4.1 Appendix

- | | | |
|----|-----------------------------|------------|
| 1. | List of modifications | Appendix 1 |
| 2. | Test Data | Appendix 2 |
| 3. | Sample Photo(s) | Appendix 3 |
| 4. | List of main test equipment | Appendix 4 |

4.2 Enclosures

Information document RS-RM2511-EU-00

Inspection Report No.: AT5-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.





With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see paragraph 1).

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020 / R10-06 ECE/UN.

The inspection report comprises pages 1 to 19.

It shall not be reproduced except in full, without written approval of the laboratory.

Dogana, Repubblica di San Marino, 22/02/2023

<i>Number of Project and Protocol</i>	<i>Originality Check (*)</i>	Automotive Technical Service S.r.l. <i>Inspector</i>  (Cheryl Deng)	
	 ATS-SM-PR-05657	Automotive Technical Service S.r.l. <i>Deputy Technical Director</i>  (Eng. Bogdan Nicolae Domnescu)	

(*) To check the originality of documents, scan the QR Code or connect to the site <https://www.ats.sm/originality-control-atp-adr-tyapp/> and follow the instruction in it.

Inspection Report No.: AT5-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

Appendix 1

List of modifications

Applicable / Not Applicable

Appendix 1

More details for application of

Date :

Correction of : -

Modification of : -

Addition of : -

Deletion of : -

Inspection Report No.: ATS-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

Appendix 2

Test data

Appendix 2

1 Test object(s)

1.1. Commercial description: Electronic rearview mirror

1.2. Type: RS-RM2511-EU

1.2.1. Variants: RS-RM2511-EU, RS-RM2511

1.3. Technical data of the tested ESA type: See information document

1.3.1. Electrical system rated voltage: DC 24V, Negative ground.

1.3.2. This ESA can be used on any vehicle type with the following restrictions: N/A

1.3.3. Installation conditions: ---

1.3.4. This ESA can be used on the following vehicle types: ---

1.3.5. Installation conditions: ---

Inspection Report No.: ATS-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

Test data

Appendix 2

Test results

1. Broadband / narrowband electromagnetic interference generated by ESAs

Radiated broadband electromagnetic Emissions : as shown in below

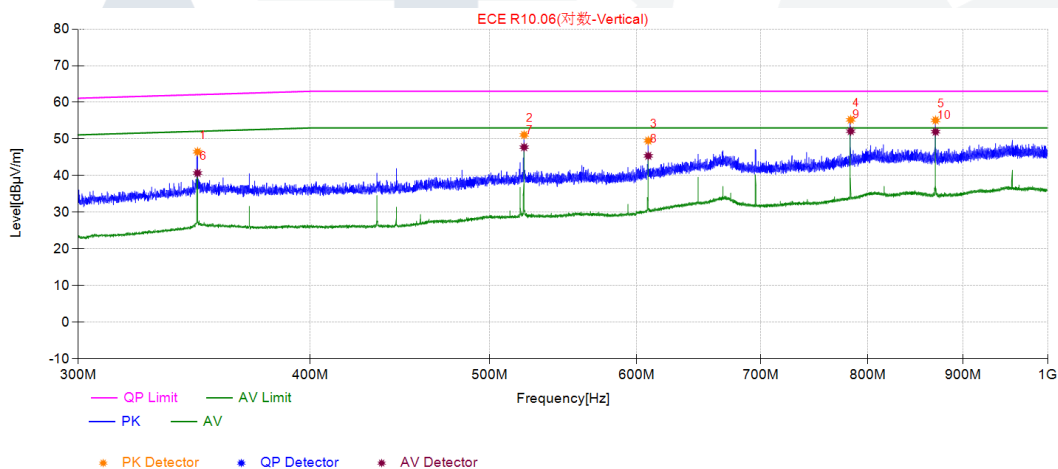
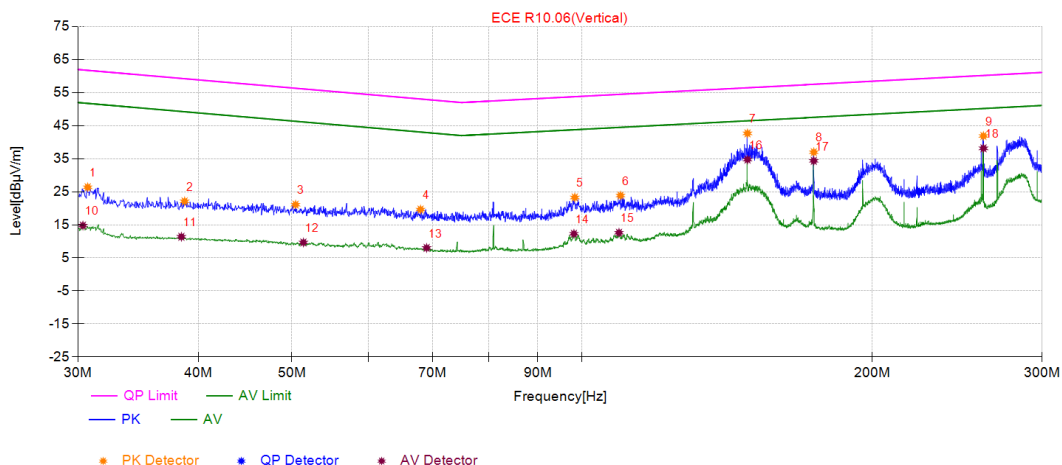
Radiated narrow band electromagnetic Emissions : as shown in below

Antenna position : horizontal and vertical

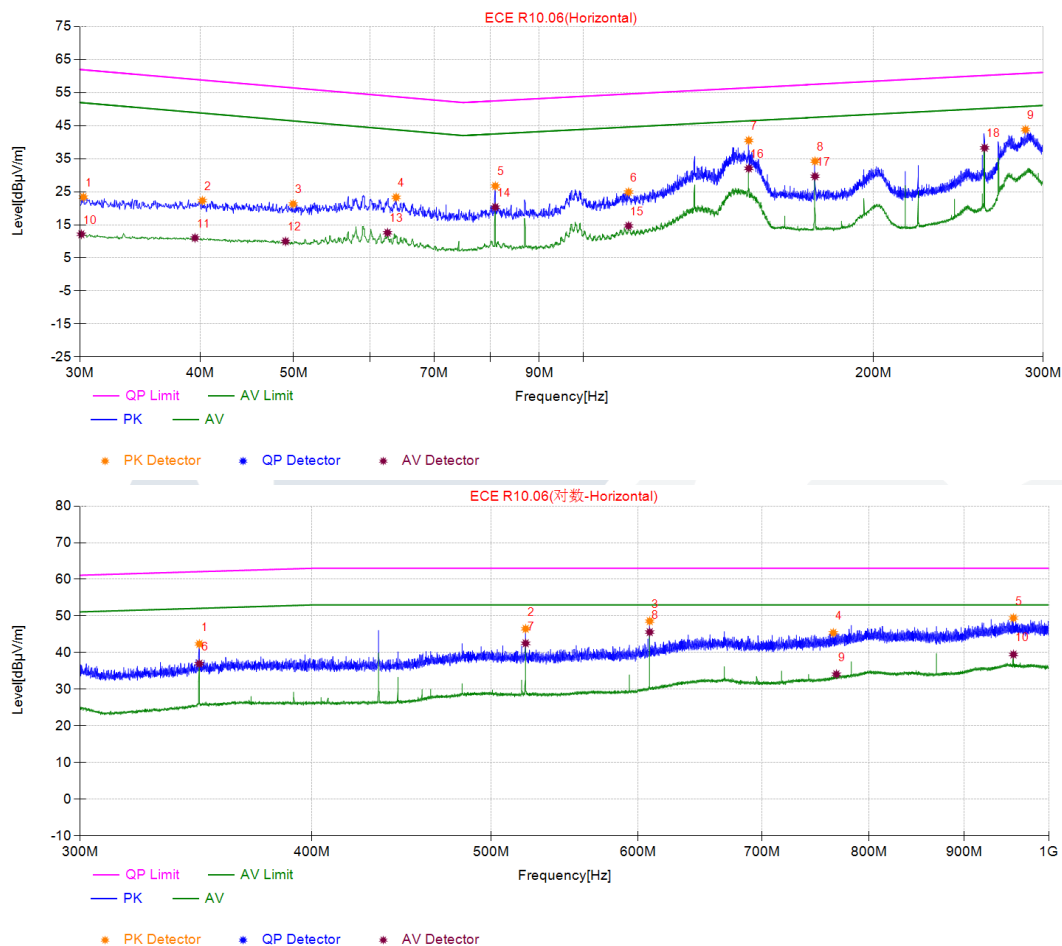
Rated voltage : DC 24V



Vertical Polarity Test Result Diagram (Broadband and Narrow band)- 24V



Horizontal Polarity Test Result Diagram (Broadband and Narrow band)-24V



The ESA is deemed to conform to the requirements in respect of this frequency band according to 6.5.2.2 and 6.6.2.2. of Regulation 10.06/ECE

Test data

Appendix 2

2. Immunity of ESAs to electromagnetic radiation

Test method : ISO 11452-2:2004; ISO 11452-4:2005

Measurement result:

Frequency range (MHz)	Test level	Type of modulation	Test distance	Antenna position	Result
20-400	60mA	AM	150mm	/	Pass*
400-800	30V/m	AM	1000mm	Vertical	Pass*
800-2000	30V/m	PM	1000mm	Vertical	Pass*

Remark:

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

3. Immunity of ESAs to transient disturbances

Test method : ISO 7637-2 : 2004

Measurement result:

Vehicles with 24 V systems

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse Repetition time	Required minimum function status*	Status of function true value (mode 1)	Result
1	III	5000 pulses	Ri=10Ω, td=2ms, tr=1μs, t1=1s, t2=200ms, t3<100μs	C	C	Pass
2a	III	5000 pulses	Ri=2Ω, td=0.05ms, tr=1μs, t1=5s	B	A	Pass
2b	III	10 pulses	Ri=0Ω, td=1s, t12=1ms, tr=1ms, t6=1ms	C	C	Pass
3a	III	1 h	Ri=50Ω, td=0.1μs, tf=5ns, t1=100μs, t4=10ms, t5=90ms	A	A	Pass
3b	III	1 h	Ri=50Ω, td=0.1μs, tr=5ns, t1=100μs, t4=10ms, t5=90ms	A	A	Pass
4	III	1 pulse	Va=-2.5V, Ri=0Ω, t8<50ms, t9=10s, t10=5ms, t11=5ms to100ms	B (for ESA which must be operational during engine start phases) C (for other ESA)	C	Pass

Test data

Appendix 2

* 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.

4. Emission of transient conducted disturbances generated by ESAs

Test method ISO 7637-2: 2004

Polarity of pulse amplitude	Maximum allowed value for vehicles with 24V systems	Measured Pulse amplitude True Value(Fast)	Measured Pulse amplitude True Value(Slow)
Positive	+150V	0.0V	0.0V
Negative	-450V	-26.4V	-27V

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Type: RS-RM2511-EU

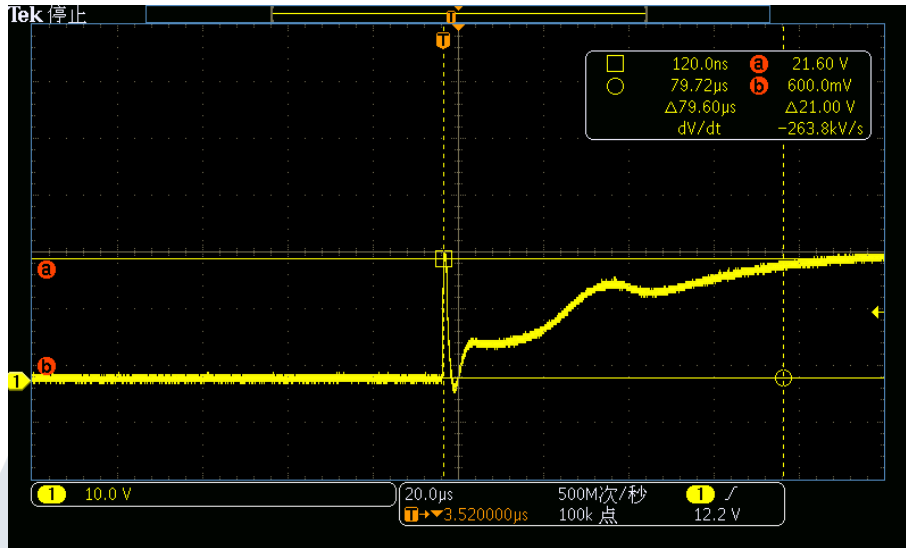
Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

Test data

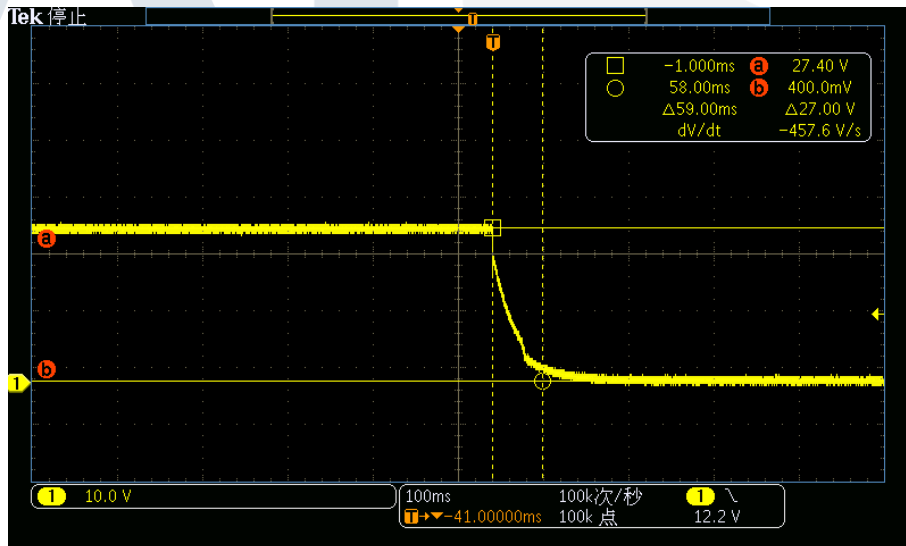
Appendix 2

Vehicles with 24 V systems

Slow Pulse: OFF-->ON Data Graph



Slow Pulse: ON-->OFF Data Graph



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Of: 22/02/2023



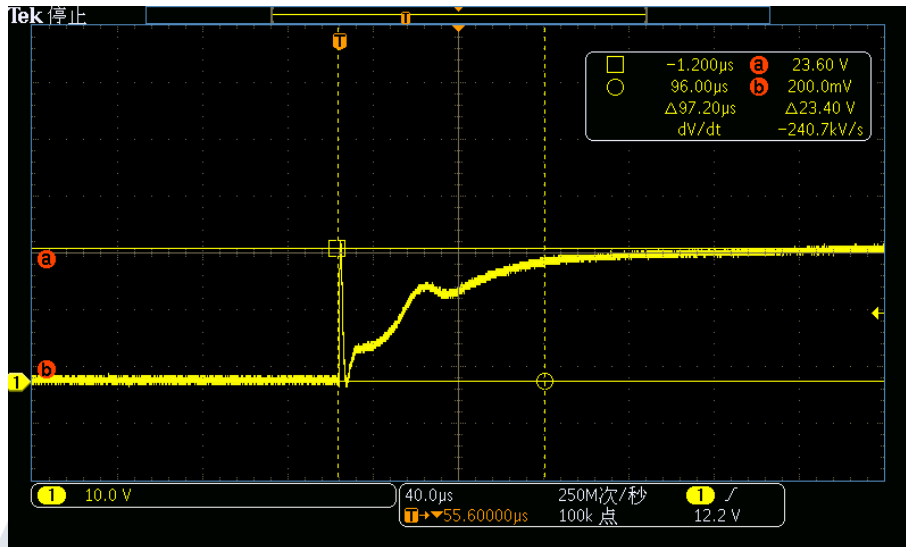
Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

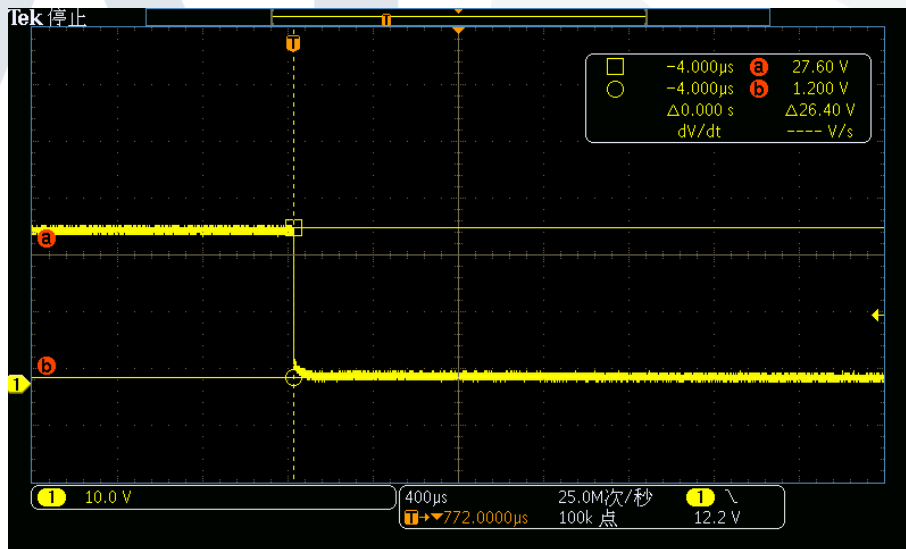
Test data

Appendix 2

Fast Pulse: OFF-->ON Data Graph



Fast Pulse: ON-->OFF Data Graph



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Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.

Appendix 3

Sample photos

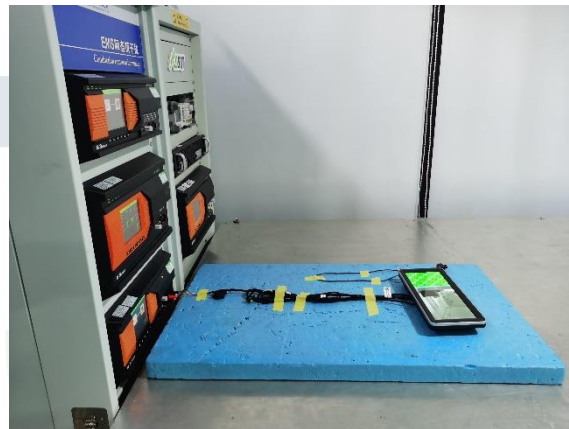
Appendix 3



Test photos



Appendix 3



Inspection Report No.: AT5-SM-IR-10-05657

Of: 22/02/2023



Type: RS-RM2511-EU

Manufacturer: Guangzhou Rongsheng Technology Co.,Ltd.


Appendix 4

List of main test equipment

Appendix 4

Name of Equipment	Manufacturer	Model
ALSE ROOM	CRT	SQT-ALSE-1#
EMI receiver	R&S	ESCI 7
L.I.S.N.	SCHWARZBECK	NNHV 8123-200
L.I.S.N.	SCHWARZBECK	NNHV 8123-200
Biconical antenna	SCHWARZBECK	VHBB9124
Log-periodic antenna	SCHWARZBECK	VULP9118B
Test software	EZ-EMC	Ver.EMEC-3A1+
Supply Voltage Change Simulator	3C-TEST	APS40C15
Electronic Switch	/	ESS3030A
L.I.S.N.	Lunar EM	AN-100A
Digital phosphor oscilloscope	Tektronix	TDS 3054C
CONDCTED IMMUNITY SYSTEM	FRANKONIA	CIT-100-75
Current Injection Clamp	FRANKONIA	BCI-P1
L.I.S.N.	Lunar EM	AN-100A
L.I.S.N.	Lunar EM	AN-100A
Coaxial attenuator	SHX	DTS100-6dB-1G-NKK
Signal generator	R & S	SMB100A
Power meter	Keysight	4419B
Amplifier	MICTOP	MPA-80-1000-1000
Amplifier	MICTOP	MPA-1000-6000-200
Log-periodic Antenna	SCHWARZBECK	STLP 9128 E sp-7/16
Horn Antenna	SCHWARZBECK	BBHA9120J
LISN	Lunar EM	AN-100A
LISN	Lunar EM	AN-100A
Supply Voltage Change Simulator	3C-TEST	APS40C15
Load dump wave simulato	3C-TEST	LDS200N30
Transient pulse distrubance simulator	3C-TEST	TIS700

**Information document no. RS-RM2511-EU-00 relating to type-approval of an
electronic subassembly with respect to electromagnetic compatibility (ECE
Regulation 10.06 to Supplement 2)**

Type : RS-RM2511-EU
Manufacturer : Guangzhou Rongsheng Technology Co.,Ltd.
Authorized person: : Xiaokang Zhu 
Date : 2023/02/04

Information folder No. : RS-RM2511-EU-00
Manufacturer : Guangzhou Rongsheng Technology Co.,Ltd.
Regulation : R10.06 to Supplement 2

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- 3 General
- 5 Drawings of the ESA
- 6 Electronic block diagram
- 9 List of components constituting the ESA

Information folder No. : RS-RM2511-EU-00
Manufacturer : Guangzhou Rongsheng Technology Co.,Ltd.
Regulation : R10.06 to Supplement 2

GENERAL

1. Make (trade name of manufacturer):



2. Type: **RS-RM2511-EU**
Type **RS-RM2511-EU** has variants as: **RS-RM2511-EU, RS-RM2511**
Above variants have the same electronic circuit design and the same component list for each PCB, the difference among them are the model name.

General commercial description(s):
Electronic rearview mirror

3. Means of identification of type, if marked on the component/separate technical unit ⁽¹⁾:
Approval mark

- 3.1 Location of that marking:
Stuck on the enclosure, See Drawings of the ESA

4. Name and address of manufacturer:
Guangzhou Rongsheng Technology Co., Ltd.
4th Floor, G Building, Jiyi Industrial Park, No.
270 Changjiang Road, Panyu District, Guangzhou City, Guangdong
Province China 511447.

Name and address of authorised representative, if any:**N/A**

5. In the case of components and separate technical units, location and method of affixing of the approval mark:
Stuck on the enclosure, See Drawings of the ESA.

6. Address(es) of assembly plant(s):
Guangzhou Rongsheng Technology Co., Ltd.
4th Floor, G Building, Jiyi Industrial Park, No.
270 Changjiang Road, Panyu District, Guangzhou City, Guangdong
Province China 511447.

7. This ESA shall be approved as a component/STU².

8. Any restrictions of use and conditions for fitting:
N/A

9. Electrical system rated voltage:
DC 24V, positive/negative² ground.

Appendix 1: Description of the ESA chosen to represent the type (electronic block diagram and list of main component constituting the ESA (e.g. make and type of microprocessor, crystal, etc.).

See electronic block diagram and list of main component constituting the ESA for details.

Appendix 2: Relevant test report(s) supplied by the manufacturer from a test laboratory accredited to ISO 17025 and recognized by the Type Approval Authority for the purpose of drawing up the type approval certificate.

N/A

Only applicable for charging systems: **N/A**

10. Charger:
N/A

11. Charging current:
N/A

12. Maximal nominal current (in each mode if necessary) :
N/A

13. Nominal charging voltage:
N/A

14. Basic ESA interface functions:
N/A

15. Minimum R_{sce} value (see paragraph 7.11. of this Regulation):
N/A

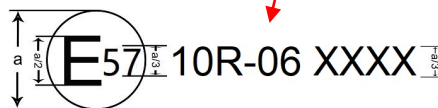
1. If the means of identification of type contains characters not relevant to describe the component or separate technical unit types covered by this information document, such characters shall be represented in the documentation by the symbol "?" (e.g. ABC??123??).

2. Delete where not applicable.

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Drawings of the ESA

Location of the ECE approval mark



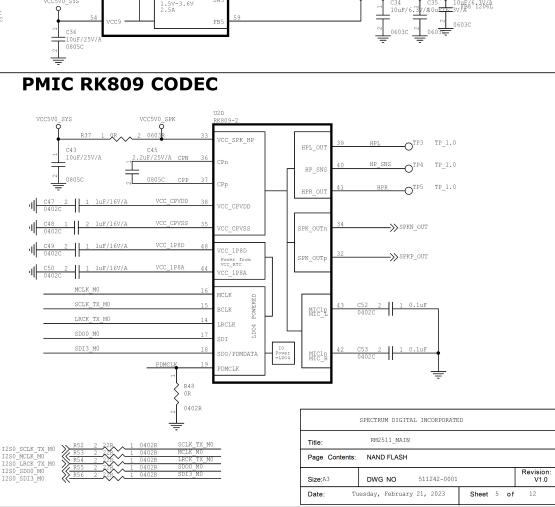
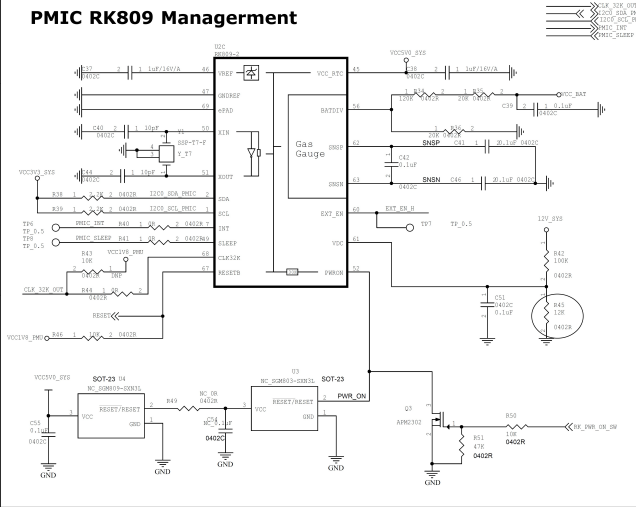
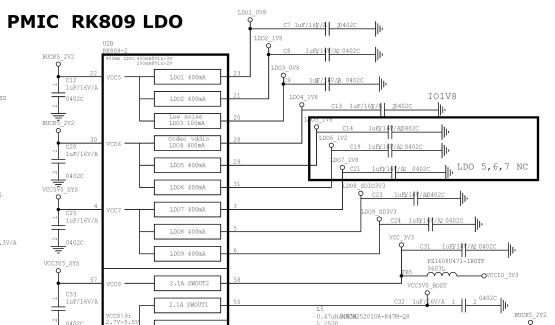
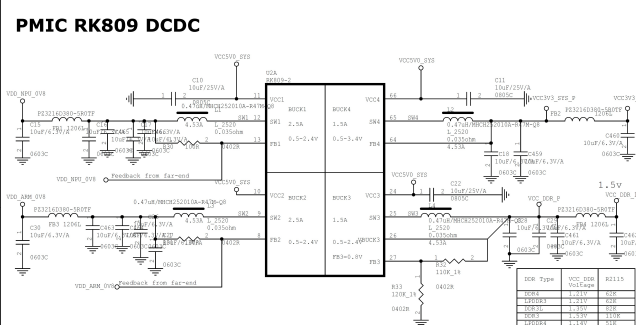
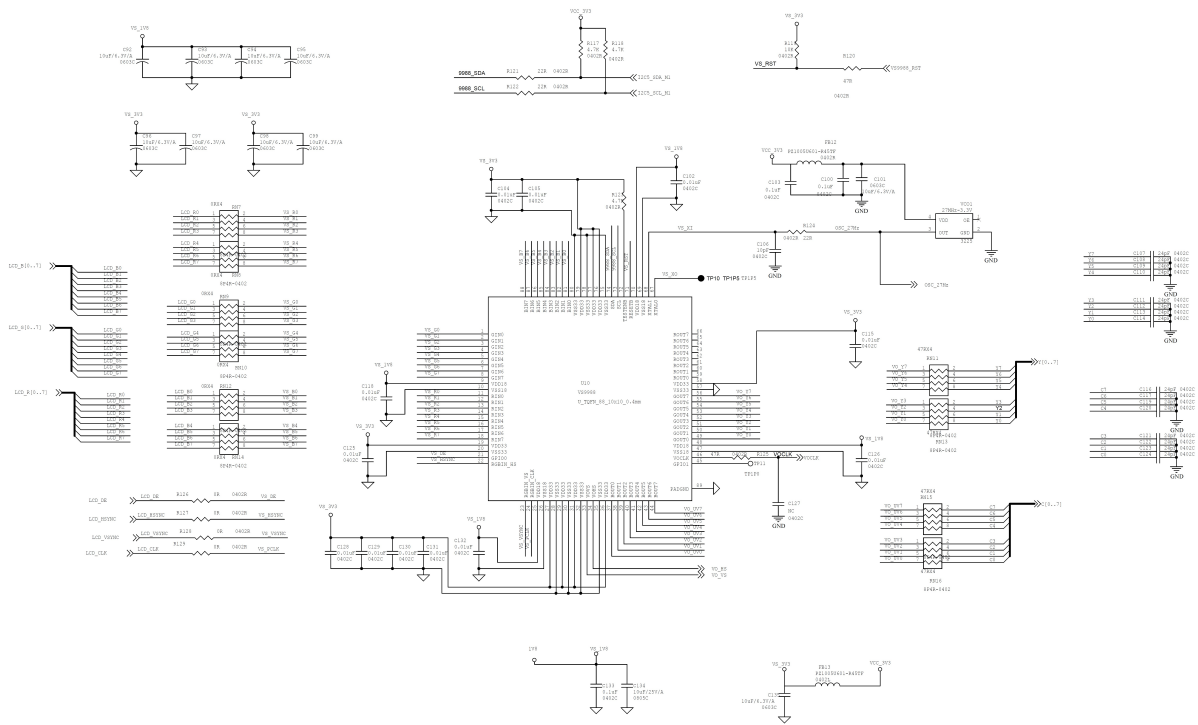
$a \geq 6\text{mm}$

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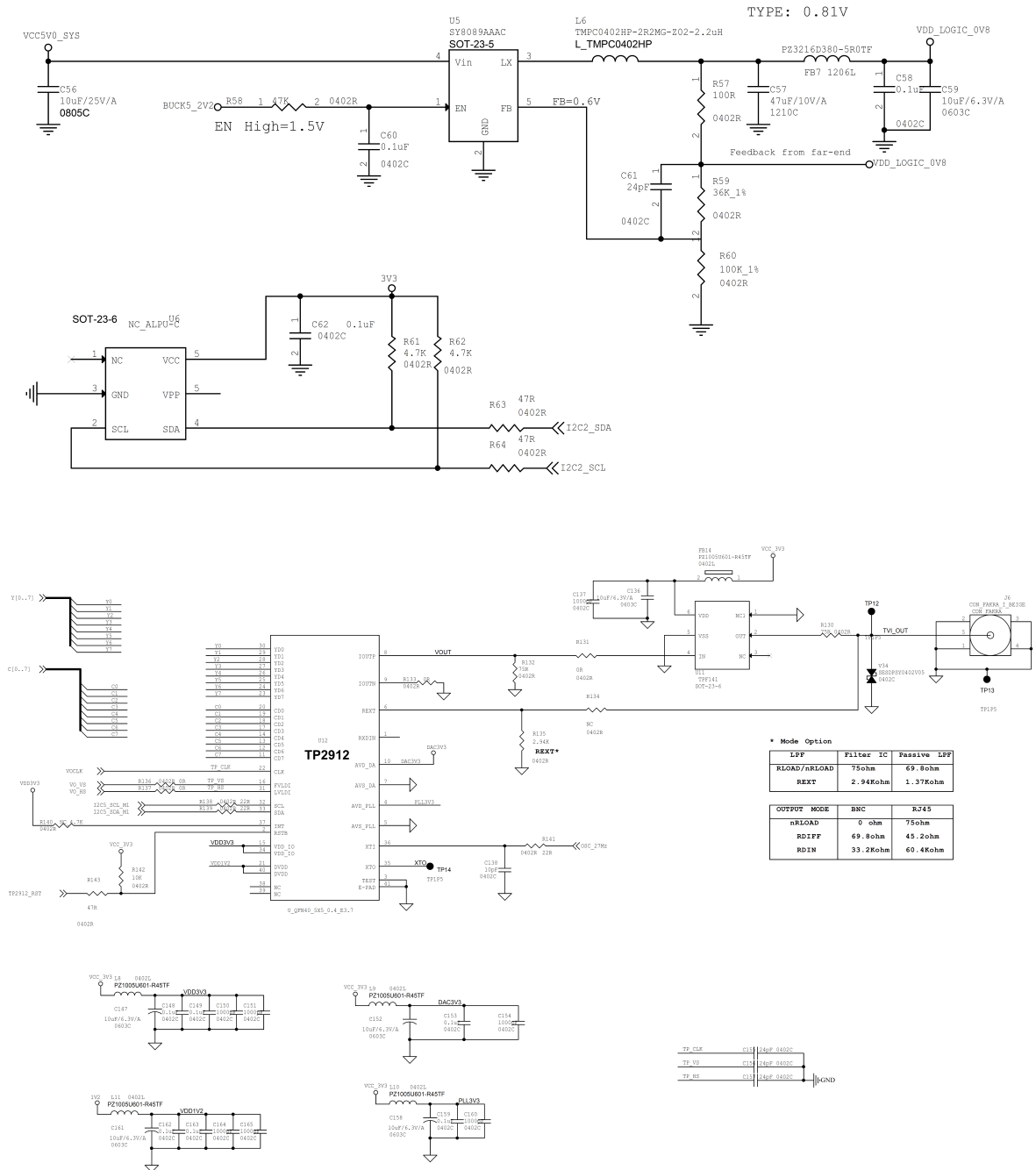
Regulation : R10.06 to Supplement 2

Electronic Block Diagram



SPECTRUM DIGITAL INCORPORATED			
Title:	RS2511_MCU		
Page Contents:	NAND FLASH		
Sheet:	DWG NO	511441-0001	Revision: V1.0
Date:	Thursday, February 21, 2025	Sheet 5 of 12	

VDD_NPU

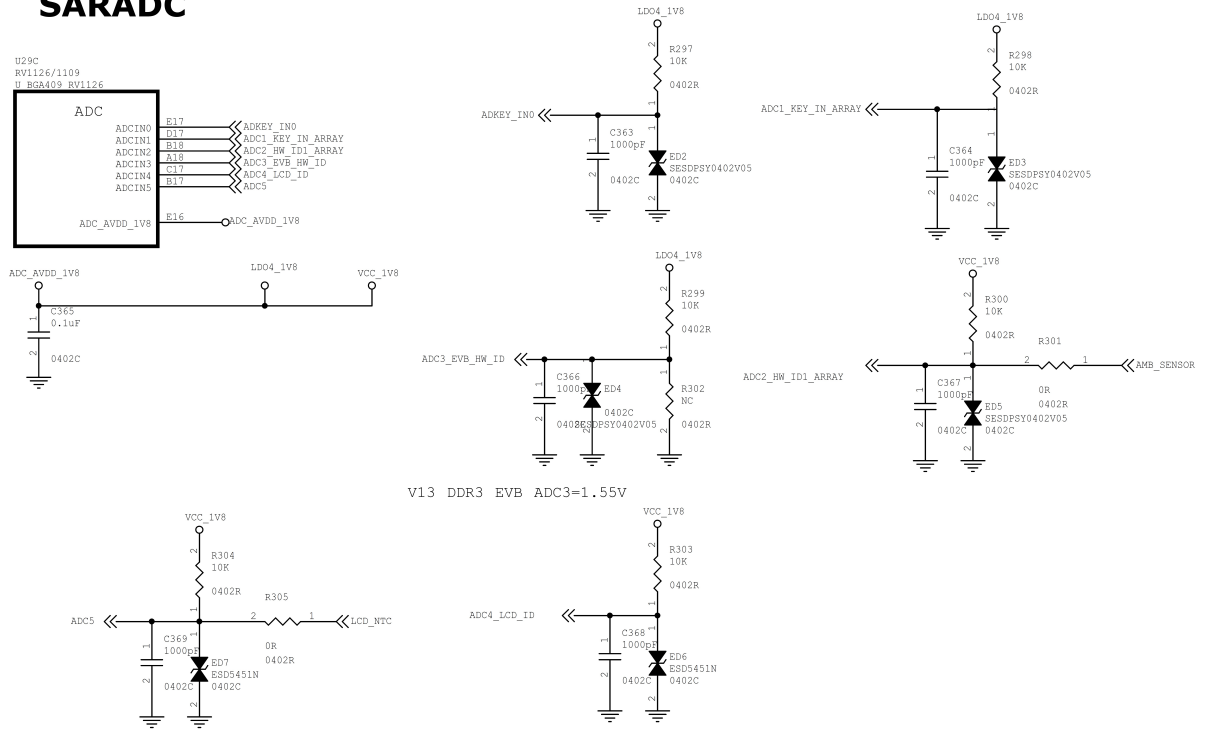


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SARADC



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List of main component constituting the ESA

Item	Specification	Location	Qua
capacitance	SMD 0402 +/-5% NPO 10PF/50V	C40,C44,C63,C106,C138,C179,C181,C273,C285,C286,C288,C291,C294,C295,C296,C298,C421,C422,C428,C429,C430,C431,C432,C433,C434,C435,C436,C437,C438,C439,C440,C441,C442,C443,C444,C445,C446,C447,C448,C449,C450,C451	42
capacitance	SMD 0402 +/-5% NPO 10PF/50V		
capacitance	SMD 0402 +/-5% COG 18PF/50V	C185,C191,C240,C243,C341,C342	6
capacitance	SMD 0402 +/-5% COG 18PF/50V		
capacitance	SMD 0402 +/-5% COG 24PF/50V	C61,C107,C108,C109,C110,C111,C112,C113,C114,C116,C117,C119,C120,C121,C122,C123,C124,C155,C156,C157,C254,C259,C264,C423	24
capacitance	SMD 0402 +/-5% NPO 47PF/50V	C453,C454,C455,C456	4
capacitance	SMD 0402 +/-5% NPO 47PF/50V		
capacitance	SMD 0402 +/-5% NPO 68PF/50V	C268,C269,C276,C279,C283,C338	6
capacitance	SMD 0402 +/-5% NPO 68PF/50V		
capacitance	SMD 0402 +/-5% NPO 100PF/50V	C318,C319,C380	3
capacitance	SMD 0402 +/-5% NPO 100PF/50V		
capacitance	SMD 0402 +/-5% NPO 220PF/50V	C235,C236,C242,C244	4
capacitance	SMD 0402 +/-5% NPO 220PF/50V		
capacitance	SMD 0402 +/-5% NPO 1000PF/50V	C84,C137,C150,C151,C154,C160,C164,C165,C299,C300,C320,C363,C364,C366,C367,C368,C369,C376,C381,C382,C383,C397,C398,C399,C400,C401,C402,C469	28
capacitance	SMD 0402 +/-10% X7R 1000PF/50V		
capacitance	SMD 0402 +/-10% X7R 2200PF/100V	C270,C277	2
capacitance	SMD 0402 +/-10% X7R 2200PF/100V		
capacitance	SMD 0402 +/-10% X7R 2700PF/50V	C324	1
capacitance	SMD 0402 +/-10% X7R 2700PF/50V		
capacitance	SMD 0402 +/-10% X7R 0.01UF/50V	C76,C85,C86,C87,C88,C102,C104,C105,C115,C118,C125,C126,C128,C129,C130,C131,C132,C171,C205,C213,C252,C275,C281,C282,C284,C287,C289,C292,C293,C297,C333,C468	32
capacitance	SMD 0402 X7R 0.01UF/25V, AEC-Q200		
capacitance	SMD 0402 +/-10% X5R 0.1UF/16V	C1,C4,C6,C39,C41,C42,C46,C51,C52,C53,C55,C58,C60,C62,C64,C67,C69,C70,C71,C73,C74,C100,C103,C133,C141,C144,C148,C149,C153,C159,C162,C163,C166,C168,C172,C173,C176,C180,C182,C188,C192,C195,C196,C198,C200,C202,C212,C215,C216,C217,C218,C220,C221,C222,C223,C226,C227,C228,C229,C230,C231,C232,C238,C239,C246,C247,C248,C249,C251,C257,C262,C267,C327,C328,C332,C339,C343,C345,C346,C347,C348,C349,C350,C351,C352,C357,C358,C359,C360,C361,C362,C365,C370,C371,C372,C373,C374,C375,C377,C378,C379,C386,C387,C388,C389,C390,C391,C392,C393,C394,C395,C396,C406,C407,C408,C409,C410,C411	122
capacitance	SMD 0402 X7R 0.1UF/25V, AEC-Q200		

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capacitance	SMD 0603 +/-10% X7R 0.1UF/50V	C80,C169,C189,C190,C204,C206, C207,C208,C290,C302,C303,C312, C313,C315,C322,C323	16
capacitance	SMD 0603 +/-10% X7R 0.1UF/50V		
capacitance	SMD 0603 +/-10% X7R 0.22uF/50V	C91,C331	2
capacitance	SMD 0402 +/-20% X5R 1UF/16V	C7,C8,C9,C12,C13,C14,C19,C20,C21, C23,C24,C25,C31,C32,C33,C37,C38, C47,C48,C49,C50,C89,C145,C146, C234,C237,C241,C245,C329,C340, C344,C353,C354,C355,C405,C417	36
capacitance	SMD 0402 +/-10% X7R 1uF/16V		
capacitance	SMD 0805 +/-10% X5R 2.2UF/25V	C45	1
capacitance	SMD 0805 +/-10% X7R 2.2uF/25V		
capacitance	SMD 1206 +/-10% X7R 2.2UF/100V		
capacitance	SMD 1206 +/-10% X7S 2.2uF/100V	C271,C278,C280,C458	4
capacitance	SMD 0603 +/-20% X5R 10UF/6.3V(三星) KMS NG	C2,C3,C15,C16,C17,C18,C26,C27, C28,C29,C30,C34,C35,C59,C66,C68, C72,C75,C77,C92,C93,C94,C95,C96, C97,C98,C99,C101,C135,C136,C139, C140,C147,C152,C158,C161,C167, C170,C178,C183,C184,C187,C193, C197,C199,C201,C203,C214,C219, C224,C225,C233,C325,C330,C334, C356,C384,C385,C403,C404,C412, C415,C418,C419,C420,C452,C459, C460,C461,C462,C463,C464,C465,C466	75
capacitance	SMD 0603 +/-20% X7T 10uF/6.3V		
capacitance	SMD 0805 +/-10% X5R 10UF/25V	C5,C10,C11,C22,C36,C43,C56,C65, C79,C81,C134,C174,C194,C211, C250,C253,C256,C258,C261,C263, C266,C301,C306,C307,C308,C309, C310,C311,C326,C424,C425,C427,C457	33
capacitance	SMD 0805 +/-10% X7S 10uF/25V		
capacitance	SMD 1210 +/-10% X7S 10uF/50V	C82,C83,C314,C316,C317	5
capacitance	SMD 1210 +/-10% X7S 47uF/10V	C57,C255,C260,C265,C304	6
capacitance	SMD 220uF/50V 10x10.5 105°C	C272,C274	2
resistance	SMD 0603 +/-5% 0Ω	R37,R310	2
resistance	SMD 1206 +/-1% 0.1RΩ	R109	1
resistance	SMD 0805 +/-5% 0Ω	FB10	1
resistance	SMD 0402 +/-5% 5.1RΩ	R112	1
resistance	SMD 0402 +/-1% 10Ω	R18,R272	2
resistance	SMD 0603 +/-5% 10Ω	R193,R195	2
resistance	SMD 0402 +/-5% 22Ω	R9,R10,R11,R12,R13,R14,R47, R52,R53,R54,R55,R56,R121, R122,R124,R138,R139,R141, R213,R215,R216,R225	22
resistance	SMD 0402 +/-5% 47Ω	R28,R29,R63,R64,R70,R72,R80, R83,R120,R125,R143,R145,R148, R161,R162,R164,R167,R168,R170, R171,R181,R182,R184,R185,R186, R187,R188,R194,R196,R201,R221, R222,R203,R236,R238,R262	36
resistance	SMD 0402 +/-1% 49.9Ω	R209,R210,R211,R212,R218,R220, R223,R224,R230,R231,R235,R311, R312,R313,R336	15
resistance	SMD 0402 +/-1% 75Ω	R130,R132	2
resistance	SMD 0402 +/-1% 100Ω	R15,R30,R31,R57,R107,R113	6
resistance	SMD 0402 +/-5% 120Ω	R150,R152,R183	3
resistance	SMD 0402 +/-1% 200Ω	R295,R296	2

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resistance	SMD 0402 +/-5% 220Ω	R27	1
resistance	SMD 0402 +/-1% 240Ω	R292,R316,R317,R318,R319	5
resistance	SMD 0402 +/-1% 300Ω	R219	1
resistance	SMD 0402 +/-5% 470Ω	R179	1
resistance	SMD 0402 +/-5% 560Ω	R114	1
resistance	SMD 0402 +/-5% 1KΩ	R24,R91,R103,R108,R115, R159,R226,R227,R267,R290	10
resistance	SMD 0603 +/-5% 1KΩ	R177,R256	2
resistance	SMD 0402 +/-1% 2KΩ	R306,R307	2
resistance	SMD 0402 +/-5% 2.2KΩ	R25,R38,R39,R308,R309	5
resistance	SMD 0402 +/-1% 2.94KΩ	R135	1
resistance	SMD 0402 +/-5% 4.7KΩ	R1,R19,R61,R62,R71,R78,R117, R118,R123,R180,R191,R192,R204, R205,R239,R240,R326,R328,R329	19
resistance	SMD 0402 +/-5% 10KΩ	R21,R23,R43,R46,R50,R69,R82, R84,R92,R96,R116,R119,R142, R144,R151,R160,R166,R172, R173,R190,R200,R206,R248, R250,R251,R257,R258,R261, R291,R297,R298,R299,R300, R303,R304,R320,R323,R327,R330,R334	40
resistance	SMD 0402 +/-1% 10KΩ	R87	1
resistance	SMD 0402 +/-1% 12KΩ	R45	1
resistance	SMD 0402 +/-1% 15KΩ	R111,R275	2
resistance	SMD 0402 +/-1% 18KΩ	R22	1
resistance	SMD 0402 +/-1% 20KΩ	R35,R36	2
resistance	SMD 0402 +/-1% 22KΩ	R234,R245	2
resistance	SMD 0402 +/-1% 24KΩ	R285	1
resistance	SMD 0402 +/-1% 30KΩ	R277	1
resistance	SMD 0402 +/-1% 36KΩ	R59	1
resistance	SMD 0402 +/-5% 47KΩ	R2,R3,R4,R5,R6,R7,R8,R51, R58,R198,R199,R202,R237, R242,R252,R253,R254,R255, R259,R260,R263,R264,R265, R266,R293,R294,R339,R341, R342,R343	30
resistance	SMD 0402 +/-1% 47KΩ	R279	1
resistance	SMD 0402 +/-1% 56KΩ	R110	1
resistance	SMD 0402 +/-1% 68KΩ	R243,R333,R337	3
resistance	SMD 0402 +/-5% 100KΩ	R20,R42,R106,R146,R147,R149, R176,R271,R280,R281,R282, R283,R338,R344	14
resistance	SMD 0402 +/-1% 100KΩ	R60,R246,R247,R249	4
resistance	SMD 0402 +/-1% 110KΩ	R32	1
resistance	SMD 0402 +/-1% 120KΩ	R33,R34	2
resistance	SMD 0402 +/-1% 200KΩ	R244,R268,R269,R273,R274,R284	6
resistance	SMD 0402 +/-1% 220KΩ	R270	1
resistance	SMD 0402 +/-1% 300KΩ	R241,R335	2
resistance	SMD 0402 +/-5% 470KΩ	R276,R278	2
resistance	SMD 0402 +/-5% 1MΩ	R178	1
resistance	SMD 0402 +/-1% 2.1MΩ	R105	1
LED lamp	Red, SMT,0603	D5,D25	2
diode	SS36	D1	1
diode	1SS355(ROHM)	D2,D3,D20,D21,D22,D24,D28	7

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diode	SS5P6 (VISHAY) 5A 60V	D8,D19	2
diode	SMF15CA(TVS 管)	D6,D7,D26	3
diode	SMF33CA SOD-123	D9,D11,D14,D16	4
diode	SMF33CA SOD-123		
diode	TSPM6L30A (TVS 管) /SMF30CA SOD-123FL	D4,D15,D23	3
diode	ESDBU3V3A1, ESD 3.3V/0.4pF, DFN1006-2L	V36,V37,V38,V39,V40,V41,V42,V43	8
audion	DTC144EE(ROHM)	Q1,Q6,Q7,Q8,Q9,Q10,Q11, Q12,Q13,Q16,Q17,Q20	12
audion	MMBT3906	Q2	1
audion	P_APM2302	Q3,Q15, Q5,Q14,Q21	5
audion	Si4850EY SO-8 N-MOSFET	Q4	1
audion	WM03N01G/SOT-323 N-MOSFET (WAYON)	Q18,Q19	2
audion	JMPL1050AK/TO-252-3L P-MOSFET	Q22	1
audion	MMBT5551/SOT-23 NPN	Q23,Q24	2
inductance	CMP9070RI048-Z701T	FB25	1
按键	T052S-015FTT16B	S6	1
卡座	C-2201778 TF	J1	1
USB 座	KDT-04-05BF	J2	1
connector	4pin 1.0mm	J3	1
connector	FPC,12pin, PH:0.5mm H:2mm	J4,J7	2
connector	FPC 60pin FH28-60S-0.5SH (HRS)	J5	1
connector	Fakra,10mm , FAK-P3B-001-0I (天籟)	J6	1
connector	10Pin 2.0mm 1-1827873-5(TE)	J10	1
connector	12Pin 2.2mm 1318772-2(TE)	J11	1
connector	1.25mm SMT 插座 2PIN	J12	1
connector	HSD 2291362-A (TE)	J13	1
connector	HSD 2291362-B (TE)	J14	1
inductance	0.47uH 一体成型 2520 MHCH252010A- R47M-Q8 (奇力新)	L1,L2,L3,L4,L5	5
inductance	TMPC0402HP-2R2MG-Z02-2.2uH	L6,L24,L25,L26,L30	5
inductance	6.8uH 6x6X3 (MPC0603H-6R8MG-D)	L7	1
inductance	SMD 0603 +/-5% 33nH	L18,L19	2
inductance	SMD 0402 +/-5% 33nH	L20,L21	2
inductance	TMPC1004-5R6MG-5.6uH	L27	1
inductance	TMPC0605H-5R6MG-D-5.6uH	L28	1
inductance	TMPC1005H-330MG-D-33uH	L29	1
connector	2.5(L)x.1.7(W)x1.1(H)	P1,P2,P3,P4,P5,P6,P7, P9,P10,P12,P14,P16	12
IC	SGM2588GYN5G/TR 5V 1A 电流保护 SOT23-5 (Sgmicro)	U1	1
IC	RK809-2/QFN68 PMIC (Rockchip)	U2	1
IC	SY8089AAAC/SOT23-5 (Silergy)	U5,U24,U35	3
IC	SY8089A1AAC/SOT-23-5 DC/DC 2A (Silergy)		
IC	TH63LVD827/TFBGA72	U7	1
IC	RT9078-18GJ5/TSOT-23-5	U8,U33	2
IC	RT8577AGQW/WQFN-20L	U9	1

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IC	VS9988 88PIN TQFN	U10	1
IC	TPF141N	U11	1
IC	TP2912-FB, CVBS, AHD	U12	1
IC	RT9058-33GX/SOT-89-3	U13	1
IC	TJA1051T/3 SO8 (NXP)	U14,U16	2
IC	TLE9350XSJ PG-DSO-8 (infineon)		
IC	STM32F412RET6/LQFP64 (ST)	U17	1
IC	TJA1043T SO14 (NXP)	U18	1
IC	TLE9252VSK		
IC	MAX3430ESA/SO8	U19	1
IC	MAX3232ESE+/SOP16	U20	1
IC	SY6897ATLC(Silergy)	U21,U23	2
IC	DL357/QFN68(DCOD)	U22	1
IC	SY8088IAAC, SOT-23-5, 5.5V1A DCDC	U25,U26	2
IC	SY8303AAIC/TSOT23-8 DC/DC 40V3A (Silergy)	U27	1
IC	RV1126/BGA409 (Rockchip)	U29	1
IC	MT41K256M16TW-107 AAT:P 1.35V/1.5V,4G DDR3, -40°C-105°C	U30,U31	2
IC	FSEIASLD-32G 1.8V BGA153 32GB EMMC	U32	1
crystal oscillator	SMAN 27MHz-15ppm-CL15PF 32*25 3.3V AKER	VCO1	1
crystal oscillator	SSP-T7-F(7PF,20PPM) 32.768K	Y1,Y2	2
crystal oscillator	12MHZ 20PM CL12PF 32*25-- 7V12006001	Y3	1
crystal oscillator	27MHz-20ppm-CL20PF 25*20	Y4	1
crystal oscillator	24MHz-10ppm-CL8PF 2016, CXAF- 024000-AF08B60, AEC-Q200	Y5	1