

ECE TYPE-APPROVAL CERTIFICATE

Communication concerning the approval granted of an
electrical/electronic sub-assembly with
regard to Regulation No.10.



Approval No: ***E24 10R-041605***

Extension No: *N/A.*

Reason for extension:

N/A.

1. Make (trade name of manufacturer): ***911 Signal***
2. Type and general commercial description: ***X6
LED warning light***

Variants: ***X6, F3, F4, X4, X12, SKYLINE AIR***
3. Means of identification of type, if marked on the component: ***Type name optic printed***
- 3.1 Location of that marking: ***Optic printed on the housing***
4. Category of vehicle: ***See Appendix.***
5. Name and address of manufacturer ***Ningbo Yinzhou Self Photoelectron
Technology Co., Ltd
Qianzhou Village, Shounan Street, Yinzhou
District, Ningbo City, Zhejiang Province,
P.R. China, 315194***

6. In the case of components and separate technical units, location and method of affixing of the ECE approval mark: ***Incorporated on the housing of the unit***
7. Address(es) of assembly plant(s): ***Ningbo Yinzhou Self Photoelectron Technology Co., Ltd
Qianzhou Village, Shounan Street, Yinzhou District, Ningbo City, Zhejiang Province, P.R. China, 315194***
8. Additional information (where applicable): ***See appendix.***
9. Technical service responsible for carrying out the tests: ***TÜV SÜD Auto Service GmbH,
Westendstraße 199,
D-80686 München,
Germany.***
10. Date of test report: ***08.12.2014***
11. Number of test report: ***14-01091-CX-SHA-00***
12. Remarks (if any): ***See Appendix .***
13. Place: ***Dublin.***
14. Date: ***27th January 2015***
15. Signature:  
16. The index to the information package lodged with the approval authority, which may be obtained on request is attached.
- 16.1 Documentation: ***33 pages.***

Approval No: **E24 10R-041605**

Extension No: *N/A.*

Appendix

To type-approval communication concerning the type approval of an electrical/electronic sub-assembly under Regulation No.10.

1. Additional information
 - 1.1. Electrical system rated voltage: *12/24 volts*
 - 1.2. This ESA can be used on any vehicle type with the following restrictions: *See manufacturer's specifications.*
 - 1.2.1 Installation conditions, if any: *See manufacturer's specifications.*
 - 1.3. This ESA can only be used on the following vehicle types: *N/A.*
 - 1.3.1 Installation conditions, if any: *N/A.*
 - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: *Bulk current Injection (20 MHz – 400 MHz)
Free field method (400 MHz – 2GHz)*
 - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: *TÜV SÜD Auto Service GmbH.*
2. Remarks: *N/A.*

Appendix to type-approval communication concerning the type approval of a vehicle under Regulation No.10.

1. Additional information
2. Special devices for the purpose of Annex 4 to this Regulation: *N/A.*
3. Electrical system rated voltage: *N/A*
4. Type of bodywork: *N/A.*
5. List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document: *N/A.*
 - 5.1 Vehicle equipped with 24 GHz short-range radar equipment (yes/no): *N/A.*
6. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: *N/A.*
7. Remarks: *N/A.*

Index to the Information Package

Date of issue:	<i>27th January, 2015.</i>
Date of latest amendment:	<i>N/A</i>
Reason for extension/revision:	<i>N/A</i>
1. Additional conditions, and advisory notes on legal alternatives.	
2. Test report(s)	
- numbers(s):	<i>14-01091-CX-SHA-00</i>
- date of issue:	<i>08.12.2014</i>
- date of latest amendment:	<i>N/A</i>
3. Information document	
- number(s):	<i>X6</i>
- date of issue:	<i>02.12.2014</i>
- date of latest amendment:	<i>N/A</i>
Documentation:	<i>33 pages</i>

Appendix: Additional conditions, and advisory notes on legal alternatives

A: Additional conditions:

1. The retroreflector shall be marked as prescribed in the regulation.
2. Fitting instructions shall be supplied with each unit, giving details of any limitations in the use of the retroreflector.
3. The retroreflector should be fitted in accordance with the fitting instructions.
4. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
5. Each individual product from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
6. Changes in the product are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
7. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type of product no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
8. NSAI may at any time check the correct performance of the duties imposed by the grant of this Type Approval, and in order to do so, may make tests, or have tests made.
9. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to the NSAI.
10. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
11. When the manufacture or sale of the vehicle, system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B : Legal Options

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



Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

TECHNICAL REPORT

No.: 14-01091-CX-SHA-00

Test of a type of a **component**

with regard to Directive / Regulation (EC/EU) / ECE Regulation No. **10**
taking into consideration amendment No. **Series 04, Supplement 02**

Approval subject: **Electromagnetic Compatibility**

Approval status	
<input checked="" type="checkbox"/>	Granting of a type approval
<input type="checkbox"/>	Extension/correction to type approval no.: --

Test Report No.: 14-01091-CX-SHA-00

Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.

Type: X6

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1. General

1.1. Make : 911 SIGNAL

1.2. Type : X6

1.3. Variants : X6, F3, F4, X4, X12, SKYLINE AIR

1.4. Commercial description(s) : Refer to information document

1.5. Category of vehicle : N/A

1.6. Name and address of manufacturer : Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Qianzhou Village, Shounan Street, Yinzhou District, Ningbo City, Zhejiang Province, P.R.China, 315194

1.7. Name and address of representative : N/A

1.8. Information document

No. : X6

Date of issue : 2014-12-02

Last date of amendment : N/A

1.9. Technical description of the component : LED warning light

Test Report No.: 14-01091-CX-SHA-00
 Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
 Type: X6 Page 3 of 23

2. Test record : Refer to Annex 2

3. Enclosure(s)

- Annex 1 List of modification
- Annex 2 Test record
- Annex 2a Measurement diagrams of the radio interference 30 MHz - 1 GHz
- Annex 2b Conducted transients from ESAs to the vehicle power supply
- Annex 2c Immunity of ESA to conducted transient interferences
- Annex 2d Immunity of ESAs to electromagnetic radiation
- Annex 3 Information document

4. Statement of conformity

The information folder as mentioned under No. 1.8. and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document "Preparation of Test Reports".

The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

München, 2014-12-08



Joe Zhou
 Test Laboratory / DIN EN ISO 17025

Approval authority	Country	Registration-number	Actual scope list
Krafftahrt-Bundesamt (KBA)	Germany	KBA-P 00100-10	http://www.kba.de
Vehicle Certification Agency (VCA)	United Kingdom	VCA-TS-006	http://ec.europa.eu/enterprise/sectors/automotive/approval-authorities-technical-services/technical-services/index_en.htm
Approval Authority of the Netherlands (RDW)	The Netherlands	RDW-99050009 01	
National Standards Authority of Ireland (NSAI)	Ireland	Technical Service Number: 49	
Vehicle Safety Certification Center (VSCC)	TaX6an	DE04-06-1	http://www.vsc.org.tw/English/Default.aspx



Test Report No.: 14-01091-CX-SHA-00

Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.

Type: X6

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Annex 1

List of modification

Correction of : N/A

Modification of : N/A

Addition of : N/A

Deletion of : N/A



Test Report No.: 14-01091-CX-SHA-00

Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.

Type: X6

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Annex 2

Test record

1. Technical data of the test component

Representative ESA : LED warning light
Type: X6
There are 19 flash patterns (models), see Annex of ID for details.

Tested type/variant (if any) : After the preliminary scan for type X6, test data of Single model, ECE R65 Single mode and Steady 4 mode were chosen as the representative measured results to list in the report.

Test Report No.: 14-01091-CX-SHA-00

Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.

Type: X6

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2. Test conditions

2.1. Instrument : In accordance to the standard above

2.2. Ambient condition : In accordance to the standard above

2.3. Carrying out of the test

2.3.1. Broadband electromagnetic interference generated by ESA

2.3.1.1. Method of measurement : Measured by the method described in annex 7 of ECE-Regulation No. 10.
respectively
Measured by the method described in annex VII of Directive 2009/19/EC.

2.3.1.2. Results : The measured values, expressed in dB μ V/m, are below the reference limits. The test was passed.

2.3.2. Narrowband electromagnetic interference generated by ESA

2.3.2.1. Method of measurement : Measured by the method described in annex 8 of ECE-Regulation No. 10.
respectively
Measured by the method described in annex VII of Directive 2009/19/EC.

2.3.2.2. Results : The measured values, expressed in dB μ V/m, are below the reference limits. The test was passed.

Test Report No.: 14-01091-CX-SHA-00

Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.

Type: X6

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2.3.3. Immunity of ESA to electromagnetic radiation

2.3.3.1. Method of measurement : Measured by bulk current injection (20 MHz - 400 MHz) and in the anechoic chamber (400 MHz – 2 GHz) as described in annex 9 of ECE-Regulation No. 10 respectively annex IX of Directive 2009/19/EC.

2.3.3.2. Performance criteria : No degradation of function by testing with 60 mA (bulk current injection) and 30 V/m (anechoic chamber).

2.3.3.3. Results : The ESA has not exhibited any malfunction. The claimed functional state was fulfilled during the test. The test was passed.

2.3.4. Immunity of ESA to conducted transient interferences

2.3.4.1. Method of measurement : Measured as described in annex 10 of ECE-Regulation No. 10.
respectively
Measured as described in annex X of Directive 2009/19/EC.

2.3.4.2. Results : The ESA has not exhibited any unacceptable malfunction. The claimed functional state was fulfilled during the test. The test was passed.

2.3.5. Conducted transient interferences generated by ESA

2.3.5.1. Method of measurement : Measured as described in annex 10 of ECE-Regulation No. 10.
respectively
Measured as described in annex X of Directive 2009/19/EC.

2.3.5.2. Results : The measured values are below the reference limits.
The test was passed.

3. Test result

The results of the tests are attached in the diagrams of the enclosure.

4. Place and date of test

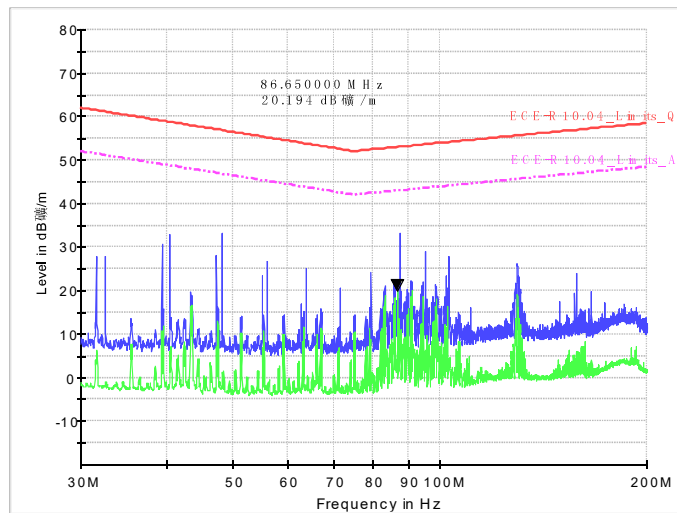
Place : Shenzhen Academy of Metrology & Quality Inspection
Date : 2014-10-21 to 2014-12-02

Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

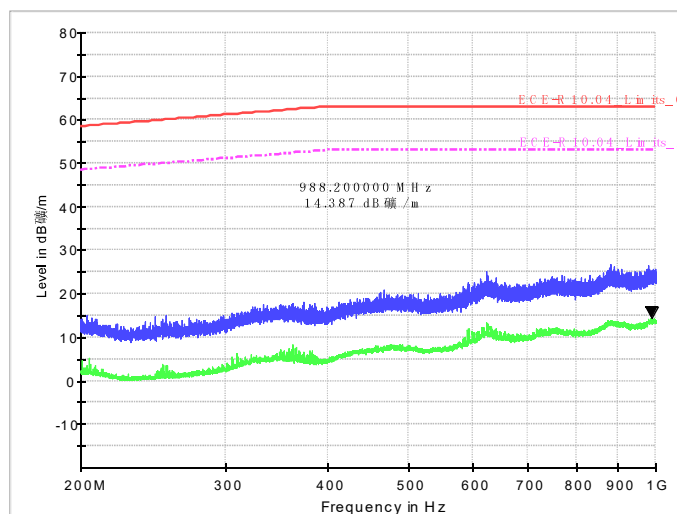
Annex 2a Measurement diagrams of the radio interference 30 MHz - 1 GHz

Model: X6
Date of test: 2014-10-21
Test Mode: 12V DC input, Single mode
Antenna Polarization: Horizontal
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

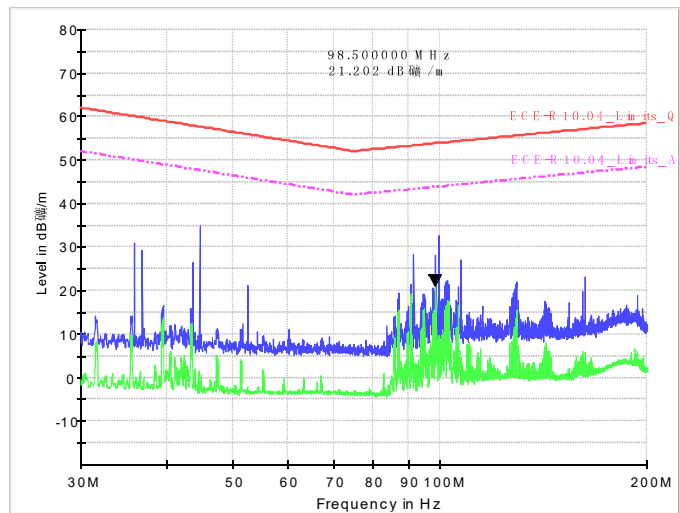


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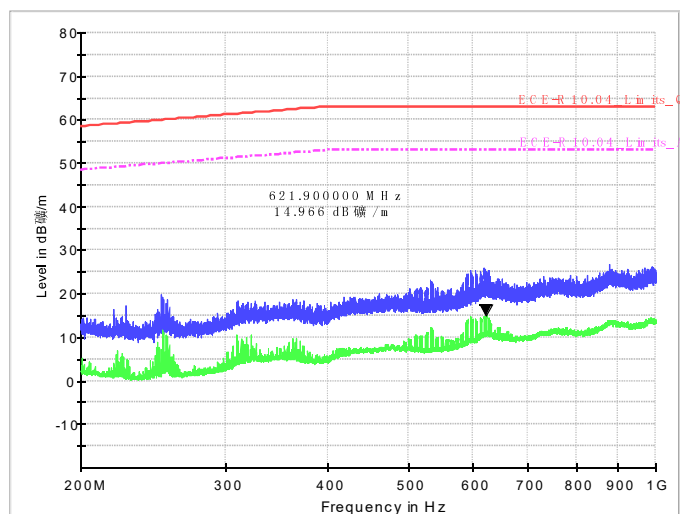
Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 12V DC input, Single mode
Antenna Polarization: Vertical
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

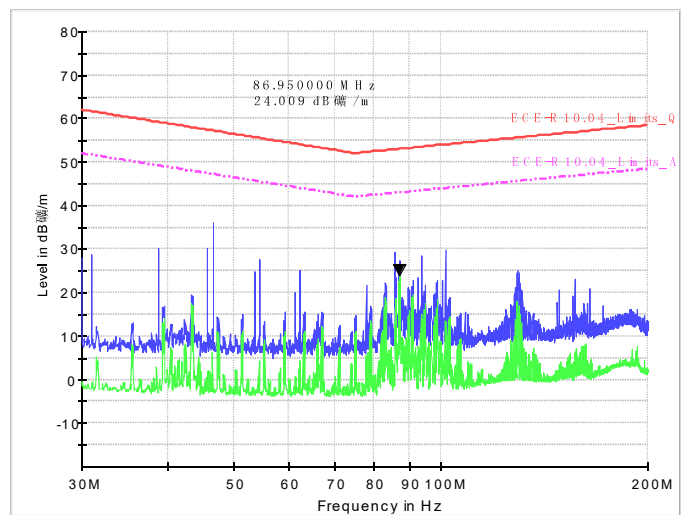


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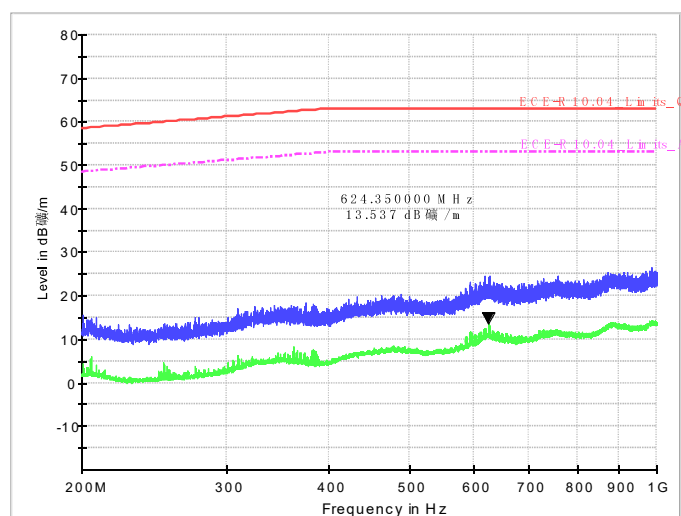
Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 24V DC input, Single mode
Antenna Polarization: Horizontal
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

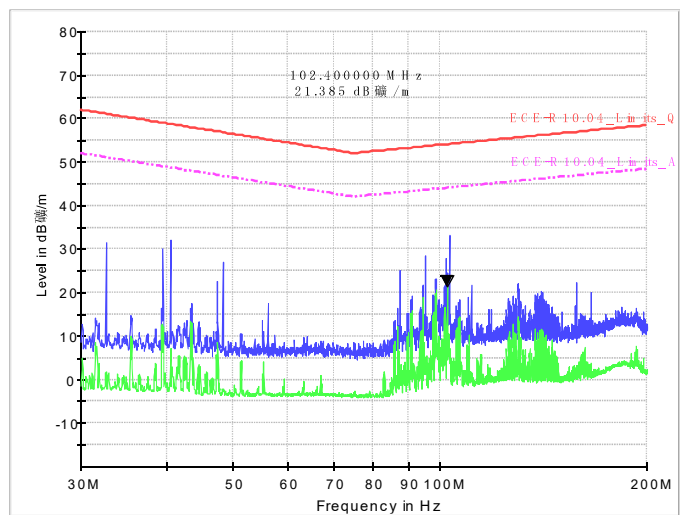


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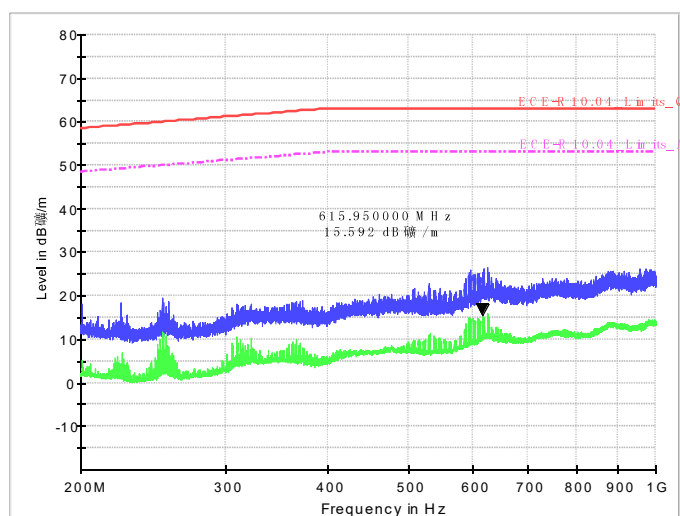
Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 24V DC input, Single mode
Antenna Polarization: Vertical
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

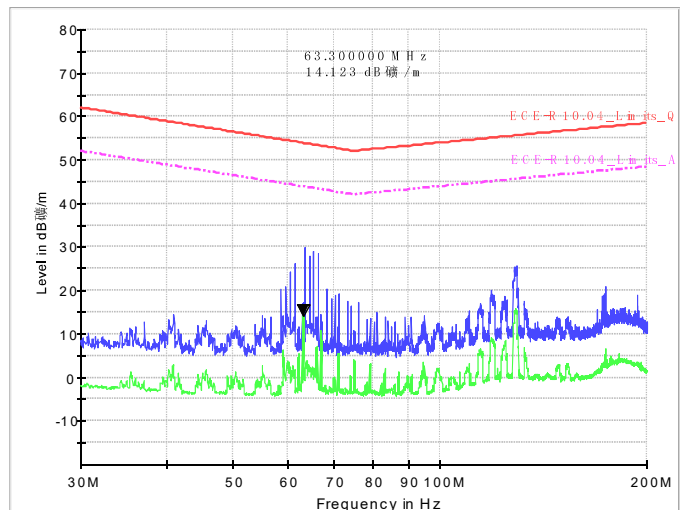


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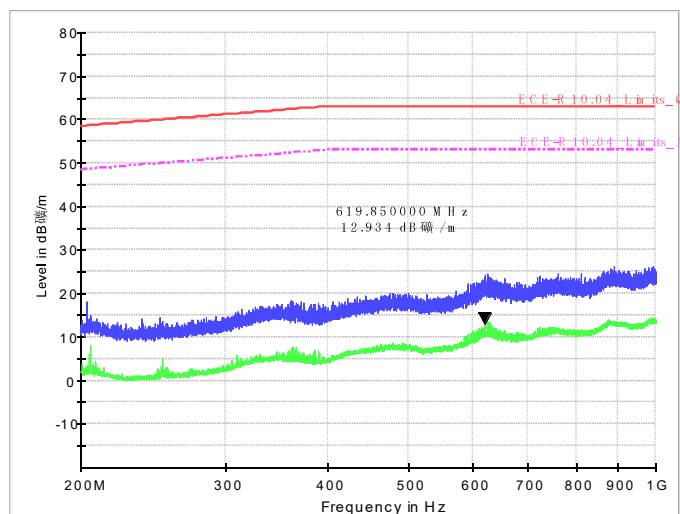
Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 12V DC input, ECE R65 Single mode
Antenna Polarization: Horizontal
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

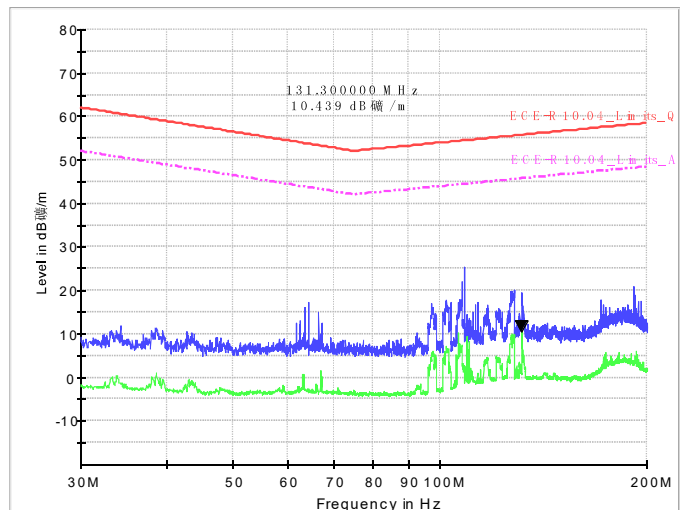


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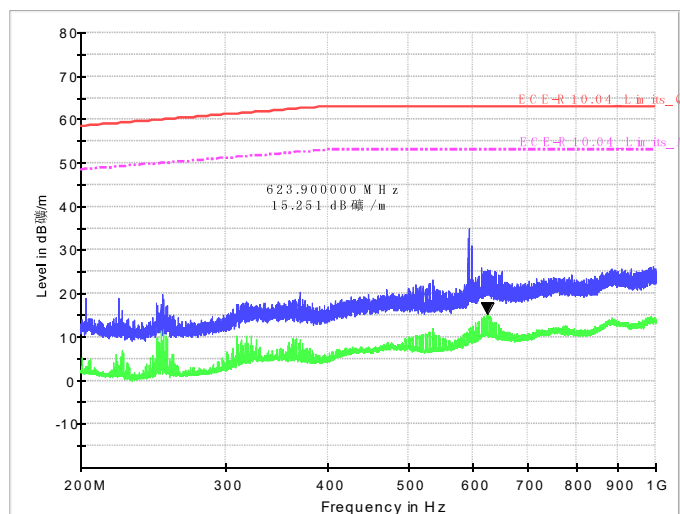
Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 12V DC input, ECE R65 Single mode
Antenna Polarization: Vertical
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223



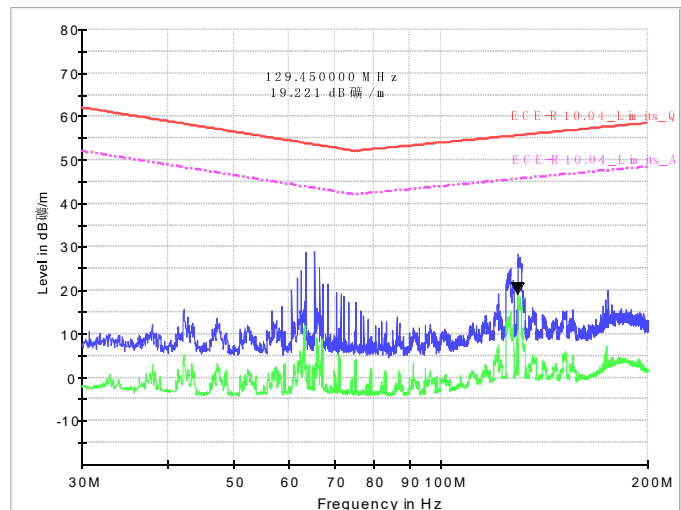
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Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

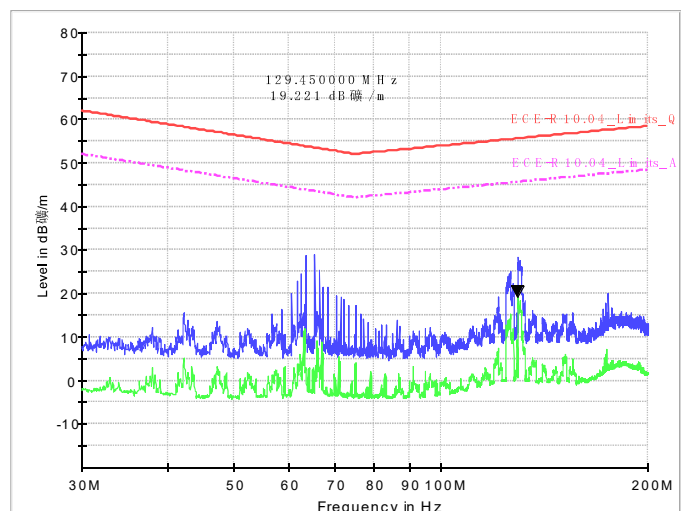
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Model: X6
Date of test: 2014-10-21
Test Mode: 24V DC input, ECE R65 Single mode
Antenna Polarization: Horizontal
Test Result: Pass

ECE-R 10.04_30MHz-200MHz_HK116



ECE-R 10.04_30MHz-200MHz_HK116



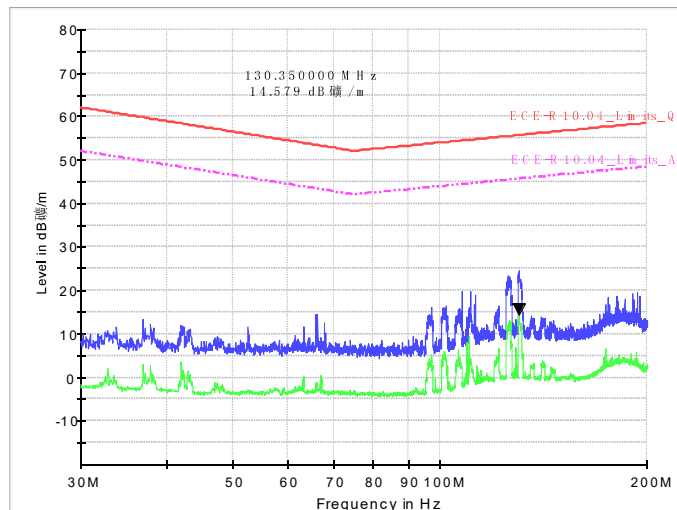
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Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

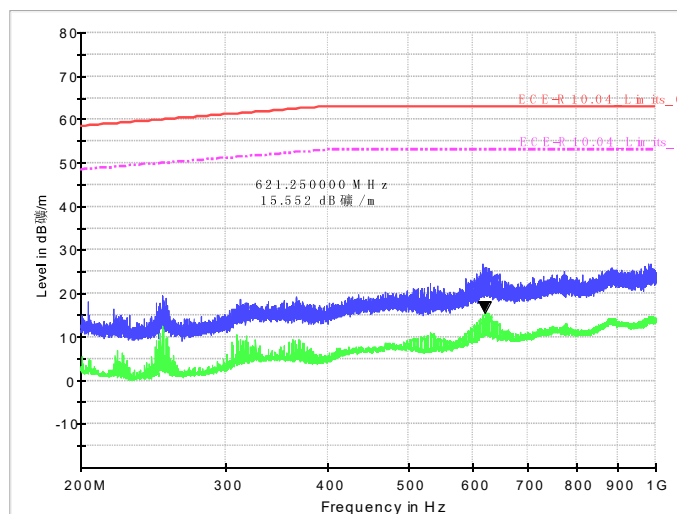
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Model: X6
Date of test: 2014-10-21
Test Mode: 24V DC input, ECE R65 Single mode
Antenna Polarization: Vertical
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

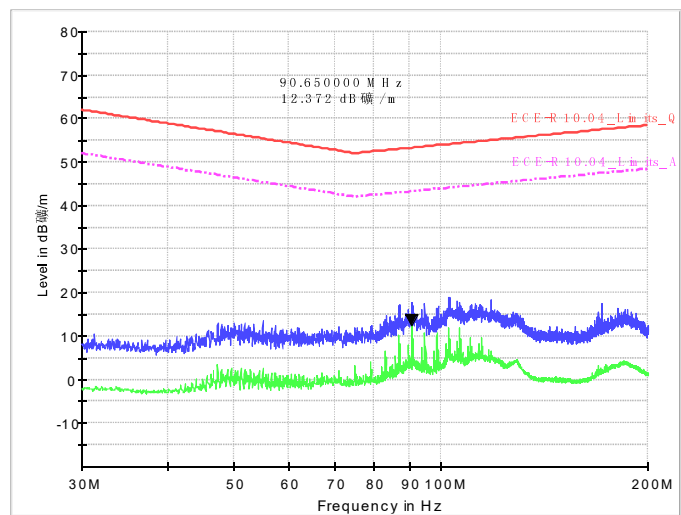


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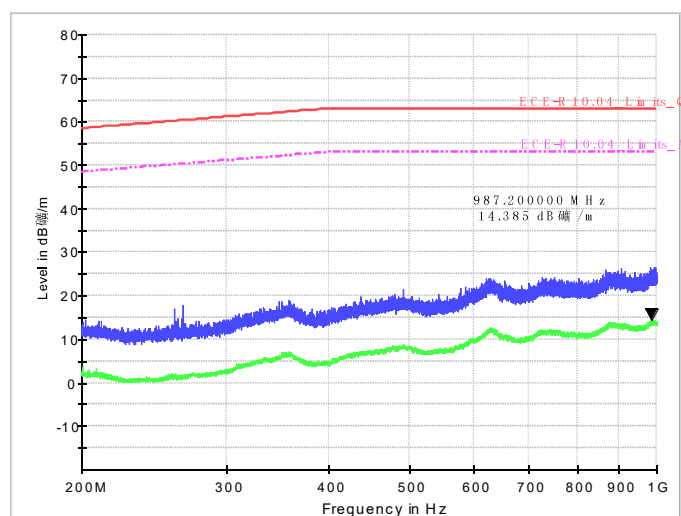
Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 12V DC input, Steady 4 mode
Antenna Polarization: Horizontal
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

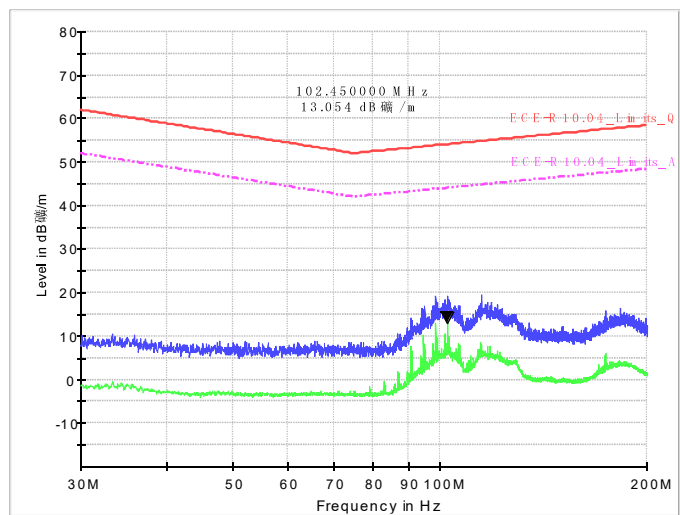


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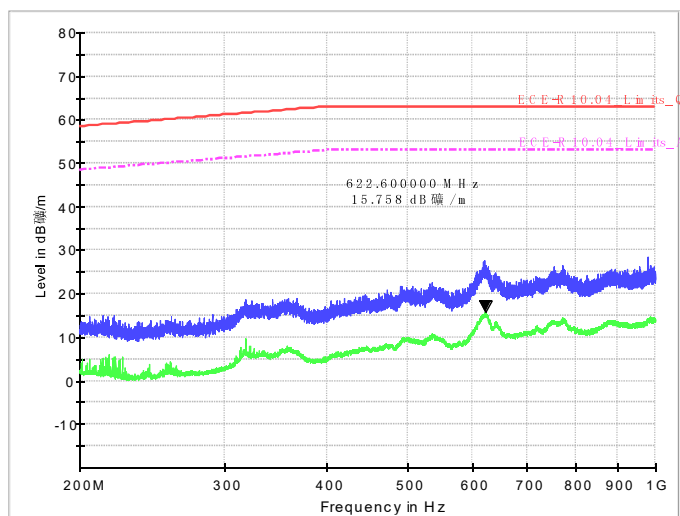
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Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 12V DC input, Steady 4 mode
Antenna Polarization: Vertical
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

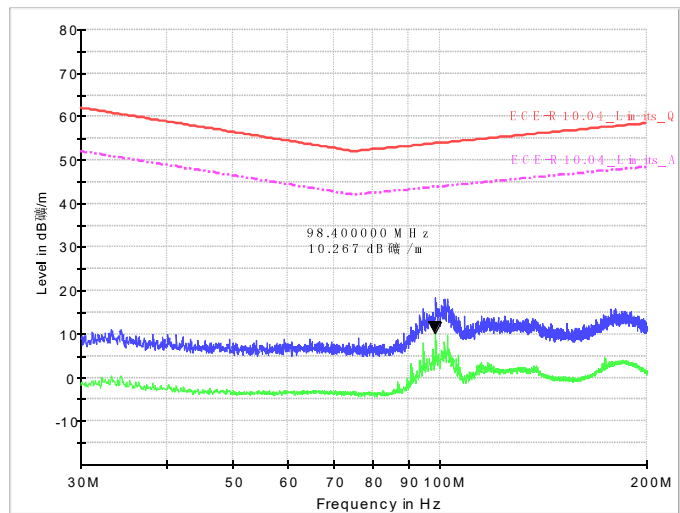


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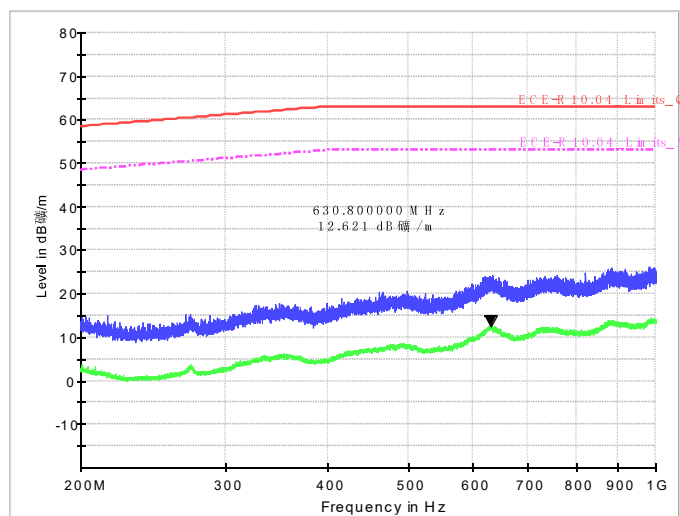
Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 24V DC input, Steady 4 mode
Antenna Polarization: Horizontal
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223

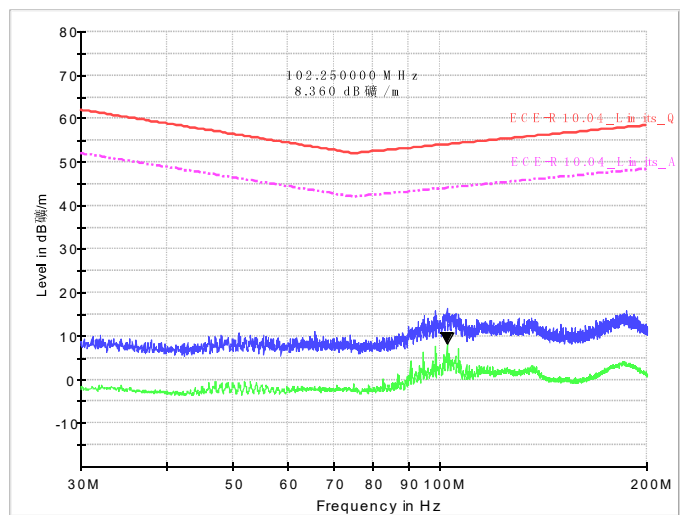


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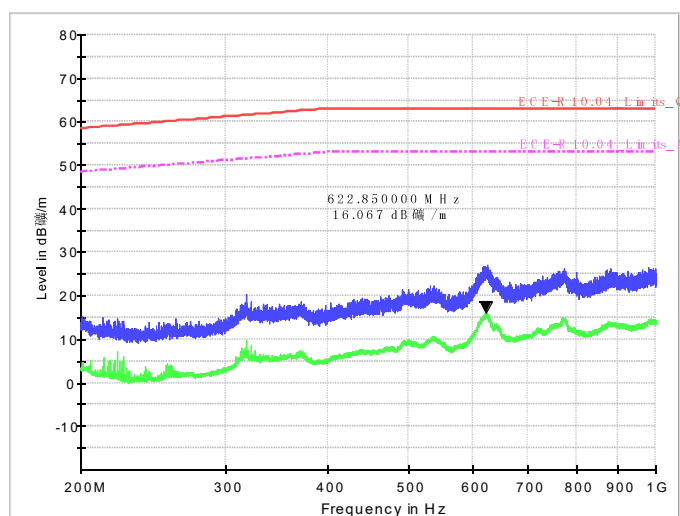
Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

Model: X6
Date of test: 2014-10-21
Test Mode: 24V DC input, Steady 4 mode
Antenna Polarization: Vertical
Test Result: Pass

ECE-R10.04_30MHz-200MHz_HK116



ECE-R10.04_200MHz-1000MHz_HL223



Remark: There is no significant broadband or narrowband emission was detected during test.

Test Report No.: 14-01091-CX-SHA-00
Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Type: X6

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Annex 2b Conducted transients from ESAs to the vehicle power supply

Model: X6

Date of test: 2014-10-21

Test Mode: 12V/24V DC input, Switch On and Switch Off

Test Result: Pass

Measurement result: 12V DC input

Polarity of pulse amplitude	Maximum allowed value for vehicles with 12V systems	Measured Pulse amplitude True value
Positive	+ 75	+ 19.5
Negative	- 100	- 46.5

Measurement result: 24V DC input

Polarity of pulse amplitude	Maximum allowed value for vehicles with 12V systems	Measured Pulse amplitude True value
Positive	+ 150	+ 23.4
Negative	- 450	- 58.8

Annex 2c Immunity of ESA to conducted transient interferences

Model: X6

Date of test: 2014-10-21

Test Mode: 12V/24V DC input, Single/ECE R65 Single/Steady 4 mode

Test Result: Pass

Measurement result: 12V DC input

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse repetition time	Required minimum functional status (clause 2.5)	Status of function true value
1	-75V	5000 pulses	0.5 s	C	C
2a	+37V	5000 pulses	0.2 s	B	A
2b	+10V	10 pulses	0.5 s	C	C
3a	-112V	1 h	90 ms	A	A
3b	+75V	1 h	90 ms	A	A
4	-6V	1 pulse	/	C	B

Measurement result: 24V DC input

Test pulse	Test level	Number of pulse / test time	Burst cycle / pulse repetition time	Required minimum functional status (clause 2.5)	Status of function true value
1	-450V	5000 pulses	0.5 s	D	C
2a	+37V	5000 pulses	0.2 s	D	A
2b	+20V	10 pulses	0.5 s	D	C
3a	-150V	1 h	90 ms	D	A
3b	+150V	1 h	90 ms	D	A
4	-12V	1 pulse	/	D	A

Remark:

Functional status "B": the DUT flashed during test, but can return to normal working mode automatically after test.

Functional status "C": the DUT shut down during test, but can return to normal working mode automatically after test.

Test Report No.: 14-01091-CX-SHA-00

Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.

Type: X6

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Annex 2d Immunity of ESAs to electromagnetic radiation – BCI

Model: X6

Date of test: 2014-12-02

Test Mode: 12V/24V DC input, Single/ECE R65 Single/Steady 4 mode

Test Result: Pass

Measurement result: Power Level: 60mA

1Kz sinusoidal signal with 80% AM modulation

Frequency range (MHz)	Functional status required	Functional status reached
>20 to ≤ 80	A	A
>80 to ≤ 200	A	A
>200 to ≤ 400	A	A

Test Report No.: 14-01091-CX-SHA-00

Manufacturer: Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.

Type: X6

Page 23 of 23

Annex 2d Immunity of ESAs to electromagnetic radiation – Absorber chamber test

Model: X6

Date of test: 2014-12-02

Test Mode: 12V/24V DC input, Single/ECE R65 Single/Steady 4 mode

Test Result: Pass

Measurement result: Power Level: 30V/m

400MHz-800MHz 1Kz sinusoidal signal with 80% AM modulation

800MHz-2000MHz 1Kz sinusoidal signal with PM modulation,
 $t_{on}=577$ us, period 4600 us

Frequency range (MHz)	Functional status required	Functional status reached
>400 to ≤ 800	A	A
>800 to ≤ 1000	A	A
>1000 to ≤ 2000	A	A

APPLICATION FOR APPROVAL PURSUANT TO: ECE R10.04
Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Information folder No.: X6

Issuing date: 2014-12-02

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Component Layout and PCB Layout	7
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APPLICATION FOR APPROVAL PURSUANT TO: ECE R10.04
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Information folder No.: X6

Issuing date: 2014-12-02

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

0. Allgemeines
General

0.1 (1) Fabrikmarke (Firmenname des Herstellers):
Make (trade name of manufacturer):

911 SIGNAL

0.2 (2) Typ:
Type:

X6
Variants: X6, F3, F4, X4, X12, SKYLINE AIR

0.2.1 (2) Handelsnamen:
General commercial descriptions:
LED warning light

0.3 Merkmale zur Typidentifizierung, sofern am Bauteil/an der selbständigen technischen Einheit vorhanden:
Means of identification of type: by numbers and characters, if marked on the component/ separate technical unit:

Type name optic printed

0.3.1 Anbringungsstelle dieser Merkmale:
Location of these markings:

Optic printed on the housing

0.5 (3) Name und Anschrift des Herstellers:
Name and address of manufacturer:

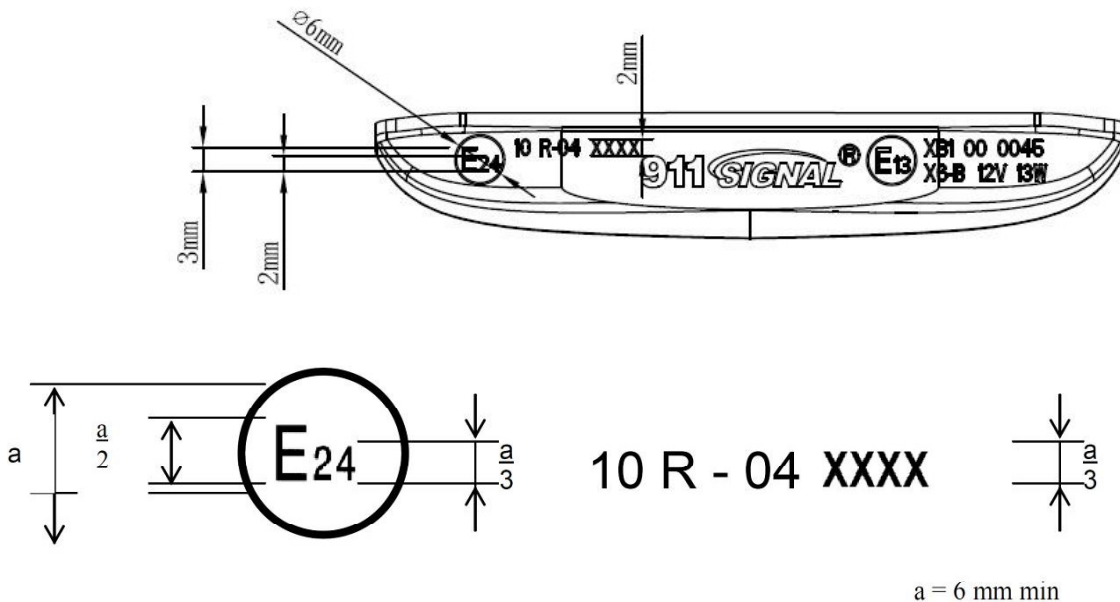
Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Qianzhou Village, Shouan Street, Yinzhou District, Ningbo City, Zhejiang Province, P.R.China,
315194

APPLICATION FOR APPROVAL PURSUANT TO: ECE R10.04
Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Information folder No.: X6

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- 0.7 (4) **Bei Bauteilen und selbständigen technischen Einheit, Lage und Anbringungsart des EG/ECE-Genehmigungszeichens:**
In the case of components and separate technical units, location and method of affixing of the EC/ECE approval mark:
 Eingetragen auf dem Gehäuse der Einheit
 Incorporated on the housing of the unit
- 0.8 (5) **Anschrift(en) der Fertigungsstätte(n):**
Address(es) of assembly plant(s):
 Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
 Qianzhou Village, Shouan Street, Yinzhou District, Ningbo City, Zhejiang Province, P.R.China, 315194
1. (6) **Diese EUB wird als Bauteil/STE genehmigt**
This ESA shall be approved as a component/STU
2. (7) **Mögliche Beschränkungen für die Benutzung und Bedingungen für die Anbringung:**
Any restrictions of use and conditions for fitting:
 entfällt
 not applicable
3. **Nennspannung des elektrischen Systems:**
Electrical system rated voltage:
 12V/24V, Masse der Batterie negativ an der Karosserie
 12V/24V, battery negative on the body

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.).



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X6



X6

DRW.

Assembly Drawing

APPLICATION FOR APPROVAL PURSUANT TO: ECE R10.04
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Information folder No.: X6

Issuing date: 2014-12-02

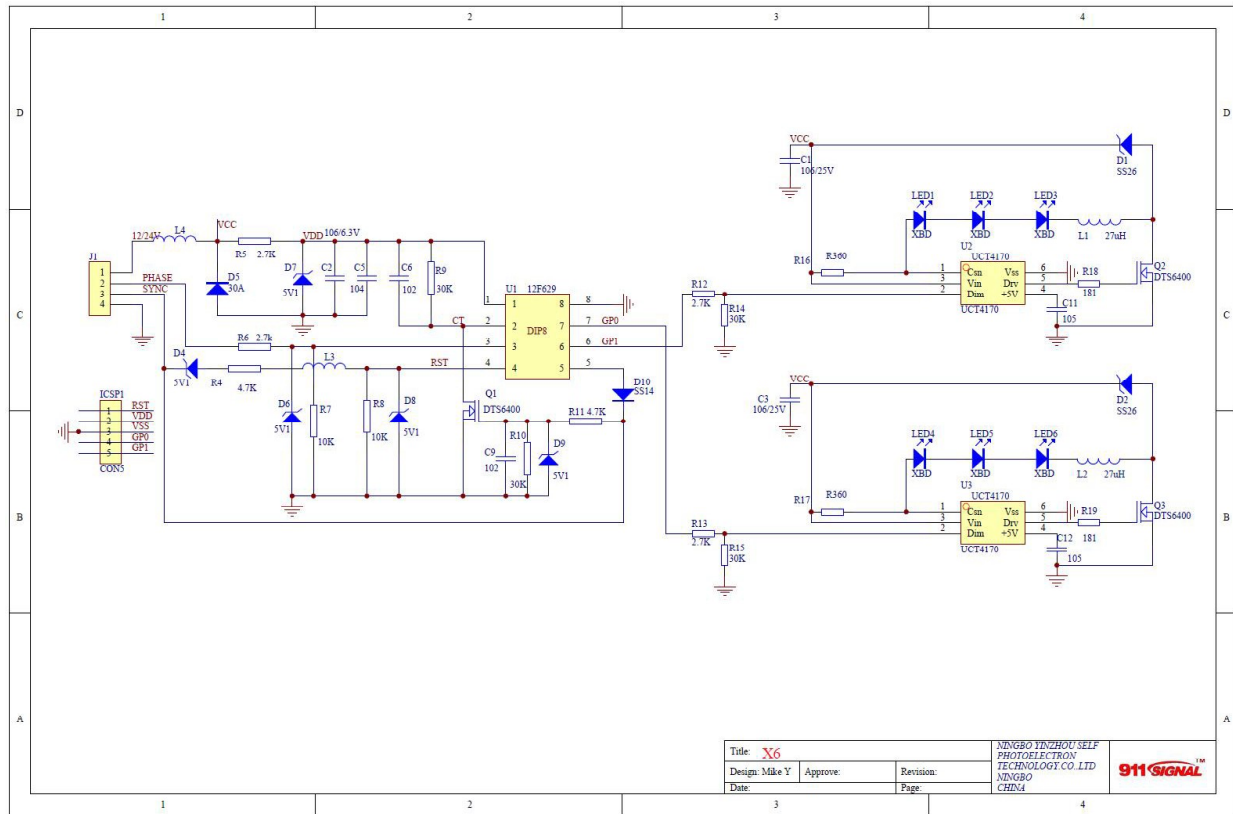
Number	Part number	Quantity
1	Lamp-chimney/X6P1/PMMA	1
2	Lens/X6P2/PMMA	1
3	Lamp panel/X6B1/PCB	1
4	Silicon gel sheeting/X6S1/SI	1
5	Heat faster/X6M1/ADC-12	1
6	Gas-permeable membrane/10.5*5.5*0.2 /Pure white film	1
7	KA/M2.5*8/5±0.2/stainless steel	2
8	Heat fixed block/X6M2/ADC-12	1
9	T screw/M3*5/Φ5 ± 0. 2/Crossing the black	2

Materials				X6	911SIGNAL TECHNOLOGY INC.		
versions	V1.0						
Mark	Signature	Zoning	Signature				
Design		Standardization		Phase marker	Weight	Ratio	X6
Audit		Technology		1			
Approval				Total Zhang	Section	Photo	explosive view

DRW. **Constructed Profile**

APPLICATION FOR APPROVAL PURSUANT TO: ECE R10.04
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Information folder No.: X6

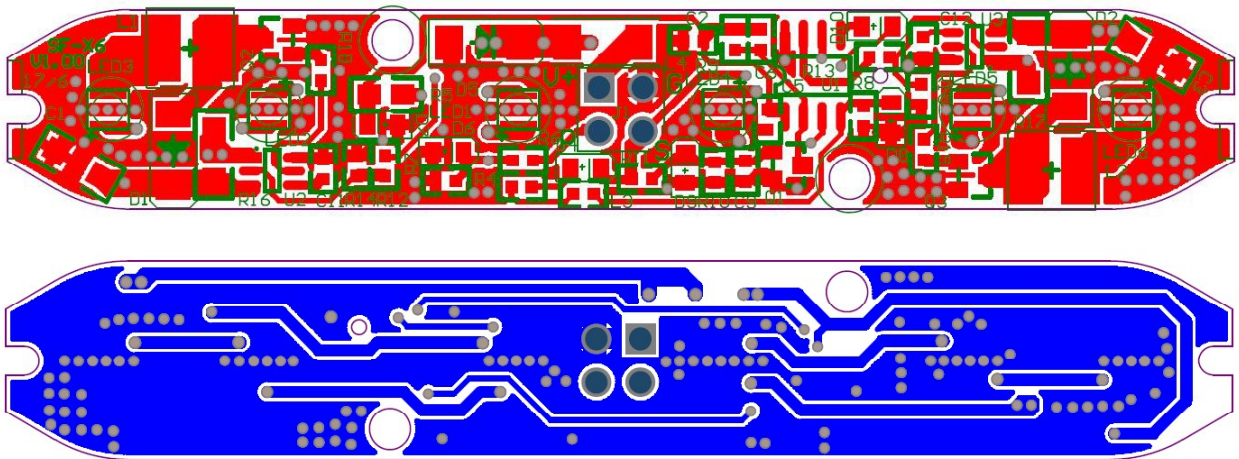
Issuing date: 2014-12-02



DRW. **Circuit Diagram**

APPLICATION FOR APPROVAL PURSUANT TO: ECE R10.04
Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Information folder No.: X6

Issuing date: 2014-12-02



DRW.

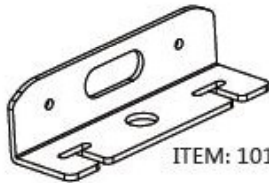
PCB Layout and Component Layout

APPLICATION FOR APPROVAL PURSUANT TO: ECE R10.04
Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Information folder No.: X6

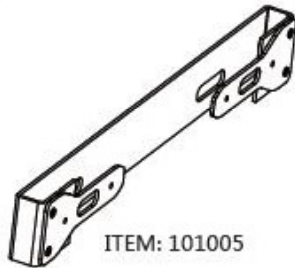
Issuing date: 2014-12-02

No	Description and Specification	Item	Unit	Quantity
1	Multi -Layer Ceramic Capacitor/106/25V/1206/±10%	C1 C3	PCS	2
2	The patch monolithic capacitors/106/6.3V/0603/±20%	C2	PCS	1
3	The patch monolithic capacitors/104/50V/0603/±20%	C5	PCS	1
4	The patch monolithic capacitors/102/50V/0603/±20%	C6 C9	PCS	2
5	The patch monolithic capacitors/105/50V/0603/±20%	C11 C12	PCS	2
6	SMD schottky diode/SS26/SMA/DO-214AC	D1 D2 D3	PCS	3
7	The patch zener diode/MM3Z5V1/SOD323	D4 D6 D7 D8 D9	PCS	5
8	Patch transient suppression diodes/P4SMA30CA/SMA	D5	PCS	1
9	SMD schottky diode/SS14/SOD323	D10	PCS	1
10	The patch field effect tube/DTS6400/SOT-23	Q1 Q2 Q3	PCS	3
11	chip inductor/27uH/CD52	L1 L2 L4	PCS	3
12	chip resistor/472/0603/±5% 1/10W	R4 R11	PCS	2
13	chip resistor/272/0805/±5% 1/8W	R5	PCS	1
14	chip resistor/272/0603/±5% 1/10W	R6 R12 R13	PCS	3
15	chip resistor/103/0603/±5% 1/10W	R7 R8	PCS	2
16	chip resistor/303/0603/±5% 1/10W	R9 R10 R14 R15	PCS	4
17	chip resistor/R360/1206/±5% 1/4W	R16 R17	PCS	2
18	chip resistor/180R/0603/±5% 1/10W	R18 R19	PCS	2
19	Patch microcontroller/PIC12F629/SO-8	U1	PCS	1
20	Paster IC/UCT4170/SOT23-6	U2 U3	PCS	2
21	Print the mainboard/SF-X6-V1.00/Black white		PCS	1
22	pasterLED /Cree XLamp XB-D/3W	LED1--LED6	PCS	6
24	Magnetic bead	L3	PCS	1
25	Magnet ring	RC 13*23*7	PCS	1
			Bill of Material	

> **BRACKET**



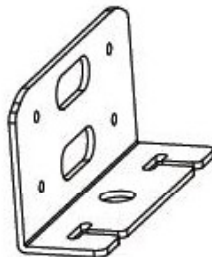
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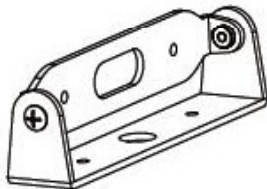
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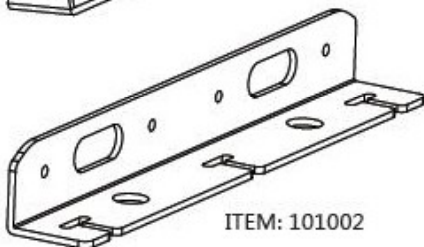
ITEM: 101004



ITEM: 101003



ITEM: 101006



ITEM: 101002

911 SIGNAL[®]

X6 LED Lighthouse
Security Partner
ITEM: 021101

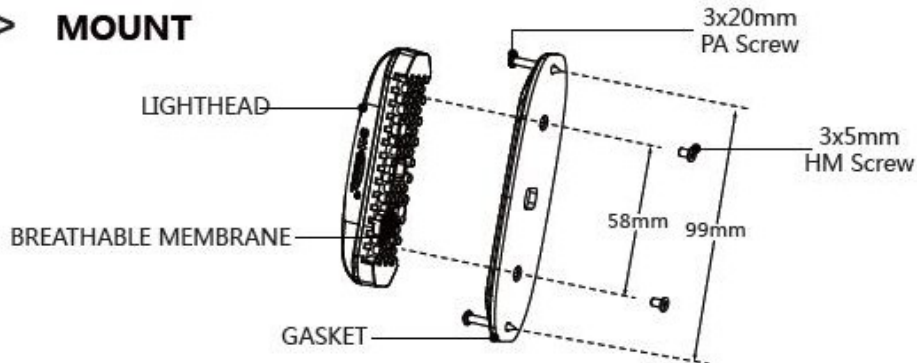


NO. 20140630

APPLICATION FOR APPROVAL PURSUANT TO: ECE R10.04
Ningbo Yinzhou Self Photoelectron Technology Co., Ltd.
Information folder No.: X6

Issuing date: 2014-12-02

> MOUNT

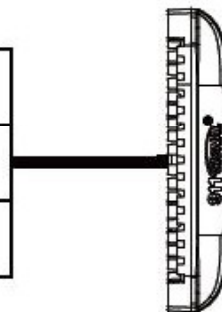


> 19 Flash Patterns

- | | |
|--------------------------|---------------------------|
| 1. Random (Default) | 11. Single (All) |
| 2. Single (Split) | 12. Double (All) |
| 3. Double (Split) | 13. Quad (All) |
| 4. Quad (Split) | 14. Quint (All) |
| 5. Quint (Split) | 15. Ultra (All) |
| 6. Ultra (Split) | 16. Single - Quad (All) |
| 7. Single - Quad (Split) | 17. Single - H/L (All) |
| 8. Single - H/L (Split) | 18. Steady 2 (California) |
| 9. Ece R65 Single (All) | 19. Steady 4 (All) |
| 10. Ece R65 Double (All) | |

> WIRING

- Wire: **RED** ————
 For Power supply to + 12-24DC
- Wire: **BLACK** ————
 For Ground
- Wire: **YELLOW** ————
 For Synchronization & Flash Patterns
- Wire: **WHITE** ————
 For Simultaneous or Alternating Flash



Note: Flash patterns will be reseted when yellow-wire connects to Red-wire more than 3 seconds.

