



GRAND-DUCHÉ DE LUXEMBOURG

Ministère du Développement durable  
et des Infrastructures  
Département des Transports

L-2938 Luxembourg

SOCIÉTÉ NATIONALE DE  
CERTIFICATION ET D'HOMOLOGATION

s.à r.l.

Registre de Commerce: B 27180

L-5201 Sandweiler



**Référence:** E13\*10R00\*10R04\*12845\*00

**Annexes:** - Rapport Technique  
- Fiche de Renseignements du constructeur

Sandweiler, le 14 janvier 2013

**Communication concernant:**<sup>(2)</sup>

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approval withdrawn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 definitively discontinued

**d'un type de sous-ensemble électrique/électronique<sup>(2)</sup> 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\*10R00\*10R04\*12845\*00

**Marque d'homologation:**

Approval mark:

 10R - 04 12845

**1. Fabricant (marque commerciale du constructeur):**

Make (trade name of manufacturer):

JULUEN ENTERPRISE CO., LTD.

**2. Type:**

Type:

M36

**Dénomination(s) commerciale(s) générale(s):**

General commercial description(s):

Warning Light

**Version(s)/Variante(s):**

Version(s)/Variant(s):

M37, TLED03, TLED04, TDSE4, TDXL6,  
SE3, SE4, XS4, XL6, XLED, XSLED04,  
SQ4, LE, M38, M39.

- 3. Moyens d'identification du type, s'ils sont marqués sur le véhicule / composant / entité technique<sup>(2)</sup>:**  
Means of identification of type, if marked on the vehicle / component / separate technical unit: See item 6.
- 3.1. Emplacement de ce marquage:**  
Location of that marking: See item 6.
- 4. Catégorie du véhicule:**  
Category of vehicle: Not applicable
- 5. Nom et adresse du constructeur:**  
Name and address of manufacturer: JULUEN ENTERPRISE CO., LTD.  
8F.-1, No. 502, Da-an Rd., Shulin City,  
Taipei County 238, Taiwan,  
R.O.C.
- 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: Printed label durable fixed on housing of ESA or engraved on housing of ESA
- 7. Adresse(s) de l' (des) usine(s) d'assemblage:**  
Address(es) of assembly plant(s): Yung Li Traffic Equipment Co., Ltd.  
No. 1-2, Lane 65, Sec. 2, Chia-Yuan Rd.,  
Shu-Lin, Taipei Hsien, Taiwan,  
R.O.C.
- 8. Informations supplémentaires (s'il y a lieu):**  
Additional informations (where applicable): See appendix
- 9. Autorité déléguée:**  
Assigned authority: *Société Nationale de Certification et d'Homologation  
L-5201 Sandweiler*
- Service technique responsable de l'exécution des essais:**  
Technical service responsible for carrying out the tests: *Société Nationale de Certification et d'Homologation  
11, rue de Luxembourg  
L-5230 Sandweiler*
- 10. Date du rapport d'essai:**  
Date of test report: 08.01.2013
- 11. Numéro du rapport d'essai:**  
Number of test report: 32206CU
- 12. Remarques (s'il y a lieu):**  
Remarks (if any): None

13. **Lieu:** Sandweiler  
Place:

14. **Date:** 14 janvier 2013  
Date:

15. **Signature:**  
Signature:

Pour le Département des Transports



**Marco FELTES**  
Inspecteur Principal 1<sup>er</sup> en rang

Pour la SNCH



**Claude LIESCH**  
Directeur



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:

## Appendice

Appendix

**au certificat d'homologation par type N° E13\*10R00\*10R04\*12845\*00**  
 to type-approval certificate N° E13\*10R00\*10R04\*12845\*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.

- |               |  |   |
|---------------|--|---|
| <b>1.</b>     | <b>Informations supplémentaires.</b><br>Additional information.  |   |
| <b>1.1.</b>   | <b>Tension nominale du système électrique [V]:</b><br>Electrical system rated voltage [V]:   | 12/24 V DC  |
|               | <b>Masse:</b><br>Ground:   | <del>Positive</del> /Negative <sup>(2)</sup>                                |
| <b>1.2.</b>   | <b>Ce SEEE peut être utilisé sur n'importe quel type de véhicule avec les restrictions suivantes:</b><br>This ESA can be used on any vehicle type with the following restrictions:   | Not applicable  |
| <b>1.2.1.</b> | <b>Conditions d'installation, s'il y a lieu:</b><br>Installation conditions, if any:   | Not applicable  |
| <b>1.3.</b>   | <b>Ce SEEE peut seulement être utilisé sur les types de véhicules suivants:</b><br>This ESA can be used only on the following vehicle types:   | Not applicable  |
| <b>1.3.1.</b> | <b>Conditions d'installation, s'il y a lieu:</b><br>Installation conditions, if any:   | Not applicable  |
| <b>1.4.</b>   | <b>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).</b><br>The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from annex 9). | Not applicable  |
| <b>1.5.</b>   | <b>Laboratoire accrédité au titre de la norme ISO 17025 et reconnu par l'autorité d'homologation chargée d'effectuer les essais:</b><br>Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests:  | SGS-TÜV SAARLAND FORSTER GmbH<br>Saarbrücker Strasse 1<br>D-66706 Perl-Sinz |
| <b>2.</b>     | <b>Commentaires:</b><br>Remarks:   | None  |

<sup>2</sup> **Biffer la mention inutile**  
Strike out what does not apply



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L-5201 Sandweiler

**Référence:** E13\*10R00\*10R04\*12845\*00

**Annexes:** - Rapport Technique  
- Fiche de Renseignements du constructeur

Sandweiler, le 14 janvier 2013

## Index du dossier d'homologation

Index to type-approval report

	<b>Numéro d'homologation:</b> Approval number:	E13*10R00*10R04*12845*00
	<b>Révision:</b> Revision:	00
	<b>Marque de fabrication ou de commerce:</b> Trade name or mark:	<i>JULUEN ENTERPRISE CO., LTD.</i>
	<b>Type:</b> Type:	<i>M36</i>
<b>1.</b>	<b>Procès-verbal d'essai:</b> Test report:	N° 32206CU
	- Compilation:	Page 1;
	- Information sheet:	Attachment 1 - Page 2 & 3;
	- Test report:	Attachment 2 - Page 4 to 15.
<b>2.</b>	<b>Dossier du constructeur:</b> Report of the manufacturer:	Attachment 3
	- Content:	Refer to 1 <sup>st</sup> page in information document
<b>3.</b>	<b>Autres documents annexés:</b> Other documents annexed:	Not applicable
<b>4.</b>	<b>Date de délivrance de l'homologation initiale:</b> Date of issue of initial type-approval:	14.01.2013
<b>5.</b>	<b>Date de la dernière délivrance de pages révisées:</b> Date of last issue of revised pages:	Not applicable
<b>6.</b>	<b>Date de la dernière délivrance d'une homologation révisée:</b> Date of last extension:	Not applicable

## **Kompilation Nr.: 32206CU**

**Kompilation**

**page 1**

### **Composition of the Attachments**

**Attachment 1**

**Information sheet**

**page 2 to 3**

**Attachment 2**

**Test Report No.: 32206CU**

**page 4 to 15**

**Attachment 3**

**Report of the manufacturer**

**external documents**

-Information Documents,  
-Photo of ESA,



## Attachment 1

Technical information about the ESA type according to ECE Reg. No. 10R00, 04 series of amendments from 28.10.2011, corrigendum 1 to the 04 series of amendments of 28.10.2011 and supplement 1 to 04 series of amendments from 26.07.2012

### SECTION I

- |      |   |   |
|------|---|---|
| 1.   | Make (trade name of manufacturer):  | JULUEN ENTERPRISE CO., LTD.   |
| 2.   | Type/<br>Brand name:<br>General commercial description(s):  | M36<br>n.a.<br>Warning Light  |
|      | <i>Version(s)/Variant(s):</i>   | <i>M37, TLED03, TLED04, TDSE4, TDXL6, SE3, SE4, XS4, XL6, XLED, XSLED04, SQ4, LE, M38, M39</i>                        |
|      | <i>Brand name:</i>  | <i>n.a.</i>   |
| 3.   | Means of identification of type, if marked on the <del>vehicle</del> / component / <del>separate technical unit</del> : | Printed label, fixed durable on housing of ESA or engraved on housing of ESA  |
| 3.1. | Location of that marking:   | Printed label, fixed durable on housing of ESA or engraved on housing of ESA  |
| 4.   | Category of vehicle:  | n.a.  |
| 5.   | Name and address of manufacturer:   | JULUEN ENTERPRISE CO., LTD.<br>8F.- 1, NO. 502, DA-AN RD., SHULIN CITY, TAIPEI COUNTY 238, TAIWAN (R.O.C.)            |
| 5.1  | Representant  | n. a.   |
| 6.   | In the case of components and separate technical units, location and method of affixing of the EC approval-mark:        | Printed label fixed durable on housing of ESA or engraved on housing of ESA   |
| 7.   | Address(es) of assembly plant(s)  | Yung Li Traffic Equipment Co., Ltd.<br>No. 1-2, Lane 65, Sec. 2, Chia-Yuan Rd., Shu-Lin, Taipei Hsien, Taiwan, R.O.C. |
| 8.   | Additional information (where applicable):  | see appendix  |
| 9.   | Assigned authority:   | Société Nationale de Certification et d'Homologation<br>L-5230 Sandweiler   |
|      | Technical service responsible for conducting approval tests   | Société Nationale de Certification et d'Homologation<br>11, rue de Luxembourg<br>L-5230 Sandweiler                    |
| 10.  | Date of test report:  | 08.01.2013  |
| 11.  | Number of test report   | 32206CU   |
| 12.  | Remarks (if any):   | n.a.  |

## Appendix

- |               |   |  |
|---------------|---|--|
| <b>1.</b>     | Additional informations:  | not applicable   |
| <b>1.1.</b>   | Electrical system rated voltage [V]:  | 12 / 24VDC   |
|               | Ground:   | Negative   |
| <b>1.2.</b>   | This ESA can be used on any vehicle type with the following restrictions:                     | not applicable   |
| <b>1.2.1.</b> | Installation conditions, if any:  | not applicable   |
| <b>1.3.</b>   | This ESA can be used only on the following vehicle types:                                     | not applicable   |
| <b>1.3.1.</b> | Installation conditions, if any:  | not applicable   |
| <b>1.4.</b>   | The specific test method(s) used and the frequency ranges covered to determine immunity were: | not applicable   |
| <b>1.5.</b>   | Approved/accredited laboratory responsible for carrying out the test:                         | SGS-TÜV Saarland Forster GmbH<br>Saarbrücker Strasse 1<br>66706 Perl- Sinz |
| <b>2.</b>     | Remarks:  | not applicable   |



## Attachment 2

### Test report #.: 32206CU

**Tests on electronic parts in vehicles (electromagnetic compatibility)  
per ECE Regulation No. 10R00, 04 series of amendments from 28.10.2011,  
corrigendum 1 to 04 series of amendments of 28.10.2011 and supplement  
1 to 04 series of amendments of 26.07.2012**

#### **0. General declaration:**

- 0.1. Model name:** Warning Light
- 0.2. Type/ Brand name(s):** M36
- Version's/ Brand name(s):** M37, TLED03, TLED04, TDSE4, TDXL6, SE3,  
SE4, XS4, XL6, XLED, XSLED04, SQ4, LE,  
M38, M39
- 0.3. Type identification, place of type plate:**  
Type plate with print or engraved to identify;  
Type plate is permanent fixed or engraved on housing of product.
- 0.4. Name and address of manufacturer:** JULUEN ENTERPRISE CO., LTD.  
8F.-1, NO. 502, DA-AN RD., SHULIN CITY,  
TAIPEI COUNTY 238, TAIWAN (R.O.C.)
- 0.5. Number of description map:** 001  
**date and change:** 08.01.2013

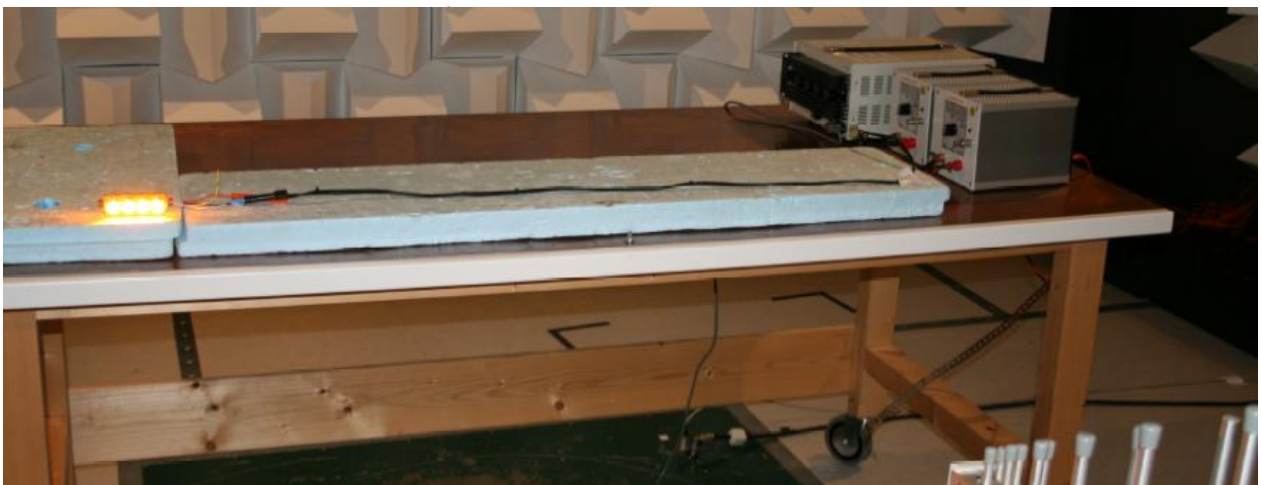
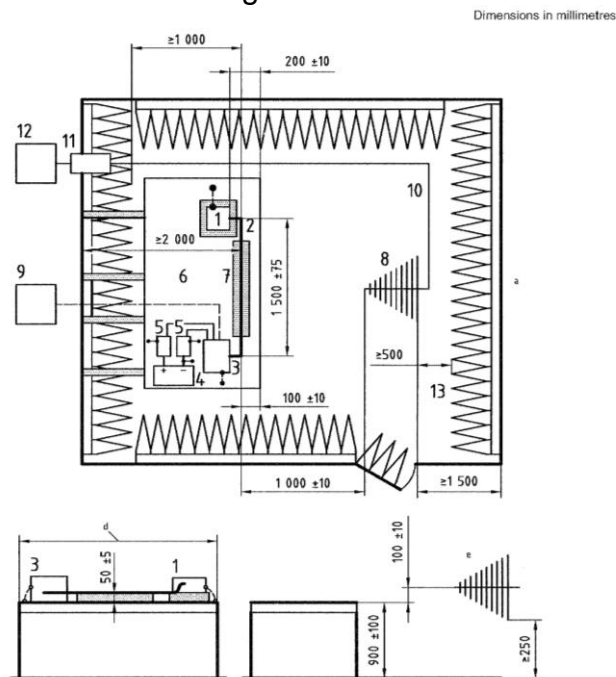
#### **1. Details to equipment under test:**

- 1.1. Representative EUT:** tested model M36
- 1.2. Description of EUT:** Warning Light

## 2. Test protocol:

### 2.1. Measurements radiated broadband electromagnetic emissions (annex 7)

- 2.1.1. Details to test:** Power supply of E.U.T. with car battery and were measured and observed with digital voltmeter METEX, type M2750. Power supply voltage comes over L.I.S.N. ( $5\mu\text{H}/50\Omega$ ) and were connected with original cable from E. U. T.. Ground plane were connected to earth ground system. E. U. T. were isolated with 50mm isolation from ground plane. Ground plane is a copper plate with dimension of 3x1.5m (L x W). Operation mode were with original cables during tests, works in light mode with worst case parameter in horizontal and vertical polarisation. Test was performed according CISPR 25 sec. ed. 2002 and corrigendum 2004.



**2.1.2 Test results:** passed, broadband emissions

**2.2. Measurements radiated narrowband electromagnetic emissions (annex 8)**

**2.2.2 Details to tests:** see pt.2.1.1

**2.2.3 Test results:** passed, narrowband emissions

SGS-TÜV Saarland Forster GmbH

02.01.2013

## Test Report

### EUT Information

EUT Name:	Warning Light
Type:	M36
Manufacturer:	Juluen Enterprise Co., Ltd.
S/N.:	---
HW.-Rev.	---
SW.-Rev.	---
Operating cond.:	Light-Mode
Operator:	Stefan Tumsek, B. Eng.
Test spec.:	Veh Dir.
Test Side:	SAC1
Supply:	DC12V
Polarisation:	Vertical/Horizontal
Project No.:	32206_02012013_WarningLight
Comment:	---

### EMI Auto Test Template: Automotive Components

Hardware Setup:	Automotive Components
Measurement Type:	Open-Area-Test-Site
Frequency Range:	30 MHz - 1 GHz
Graphics Level Range:	0 dBµV/m - 80 dBµV/m

Preview Measurements:	
Scan Test Template:	Automotive Field Strength Prescan

Data Reduction:	
Limit Line #1:	Automotive Components BB QP
Limit Line #2:	Automotive Components NB AV
Peak Search:	6 dB , Maximum Results: 30
Subrange Maxima:	30 Subranges , Maxima per Subrange: 1
Acceptance Offset:	-20 dB
Maximum Number of Results:	30
After Data Reduction:	Interactive data reduction

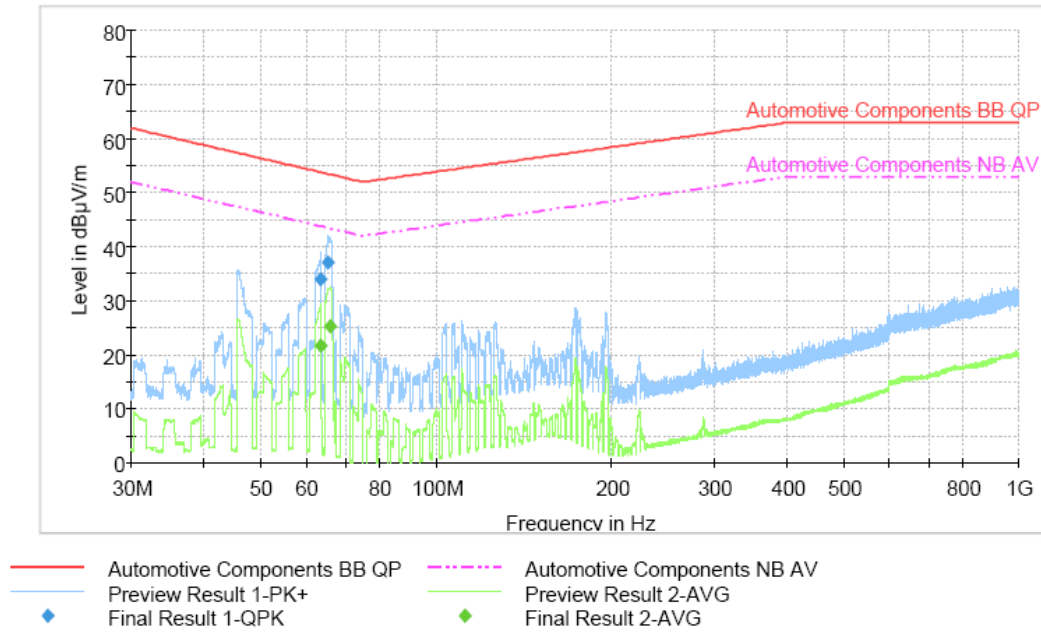
Final Measurements:	
Template for Single Meas.:	Automotive Field Strength Final

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 1 GHz	40 kHz	QPK; AVG	120 kHz	1 s	20 dB

Receiver:	[ESU 26]
-----------	----------

Report Settings:	
Report Template:	AutomotiveTest Report
Create Electronic Report:	PDF
Document Name:	Automotive Components Test Report

Automotive Components



**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
63.480000	34.0	H	11.2	19.9	53.8	
65.400000	37.2	V	10.9	16.3	53.5	

**Final Result 2**

Frequency (MHz)	Average (dBµV/m)	Polarization	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
63.520000	21.6	H	11.2	22.2	43.8	
65.880000	25.3	V	10.8	18.1	43.4	

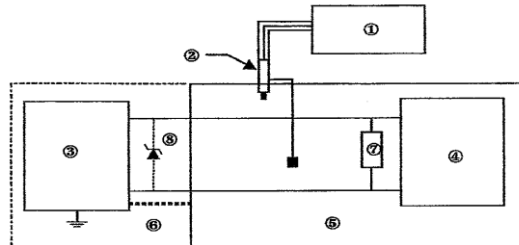
### 2.3. Tests to immunity against radiated electromagnetic fields (annex 9)

2.3.1. **Test methods:** n. a., no immunity-related functions acc. pt.6.10.3.

### 2.4. Tests to immunity against transients disturbances (annex 10)

2.4.1. **Test methods:** tests were performed acc.ISO 7637-2 2<sup>nd</sup> edition 2004 and amendment 1 2008 as described in Annex 10 with required test levels given in table 1.

2.4.1.1. **Details to test:** E.S.A were connected to car battery and observed with CCD camera during operations and tests.



- 1 DSO, Tektronix, TDS 3052
- 2 Probe TDS
- 3 Car Tester, Spitzenberger & Spieß, PAS
- 4 E.S.A
- 5 Ground Plane
- 6 Ground connection



**Company:** SGS-TÜV Saarland Forster GmbH  
**Operator:** S. E. Weber

**Manufacturer:** JULUEN ENTERPRISE CO., LTD.  
**Modelno.:** M36  
**Operating mode:** light mode  
**Date of test:** 02.01.2013

**Nominal voltage:** 24.00 Volt  
**Test voltage:** 27.00 Volt  
**Shunt resistor Rs:** no shunt  
**Executed test:**  
**Test description:** Level III

Pulse	Us/Vs	Ri	Test parameters	Pulses / Time	Delay	Figure
ISO 7637-2 (2008) AMD1 - Pulse 1	-450.0 V	50.00 Ohm	tr = 3.0us, td = 1.0ms, t1 = 1.0s, t2 = 200.0ms	5000 P.	0.0 s	
ISO 7637-2 (2008) AMD1 - Pulse 2A	37.0 V	2.00 Ohm	td = 50.0us, t1 = 500.0ms	5000 P.	0.0 s	
ISO 7637-2 (2008) AMD1 - Pulse 2B	20.0 V	0.00 Ohm	td = 1.0s	10 P.	10.0 s	
ISO 7637-2 (2008) AMD1 - Pulse 3A	-150.0 V	50.00 Ohm	t1 = 100.0us, t4 = 10.0ms, t5 = 90.0ms	60.0 min	0.0 s	

Spitzenberger & Spies  
 Viechtach

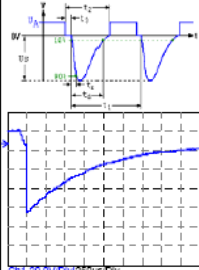
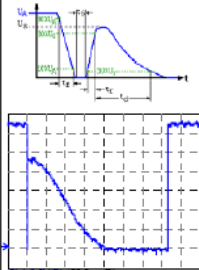
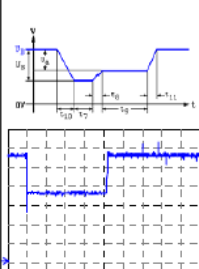
Pulse	Us/Vs	Ri	Test parameters	Pulses / Time	Delay	Figure
ISO 7637-2 (2008) AMD1 - Pulse 3B	150.0 V	50.00 Ohm	t1 = 100.0us, t4 = 10.0ms, t5 = 90.0ms	60.0 min	0.0 s	
ISO 7637-2 (2008) AMD1 - Pulse 4	-12.0 V	0.00 Ohm	Ua = -8.0V, t7 = 75.0ms, t8 = 30.0ms, t9 = 10.0s, t10 = 10.0ms, t11 = 75.0ms	1 P.	10.0 s	

Comment: ---

**Company:** SGS-TÜV Saarland Forster GmbH  
**Operator:** S. E. Weber

**Manufacturer:** JULUEN ENTERPRISE CO., LTD.  
**Modelno.:** M36  
**Operating mode:** light mode  
**Date of test:** 02.01.2013

**Nominal voltage:** 12.00 Volt  
**Test voltage:** 13.50 Volt  
**Shunt resistor Rs:** no shunt  
**Executed test:**  
**Test description:** Level III

Pulse	Us/Vs	Ri	Test parameters	Pulses / Time	Delay	Figure
ISO 7637-2 (2008) AMD1 - Pulse 1	-75.0 V	10.00 Ohm	$t_r = 1.0\mu s$ , $t_d = 2.0ms$ , $t_1 = 1.0s$ , $t_2 = 200.0ms$	5000 P.	0.0 s	
ISO 7637-2 (2008) AMD1 - Pulse 2B	10.0 V	0.00 Ohm	$t_d = 200.0ms$	10 P.	10.0 s	
ISO 7637-2 (2008) AMD1 - Pulse 4	-6.0 V	0.00 Ohm	$U_a = -4.0V$ , $t_7 = 30.0ms$ , $t_8 = 30.0ms$ , $t_9 = 10.0s$ , $t_{10} = 5.0ms$ , $t_{11} = 50.0ms$	1 P.	10.0 s	

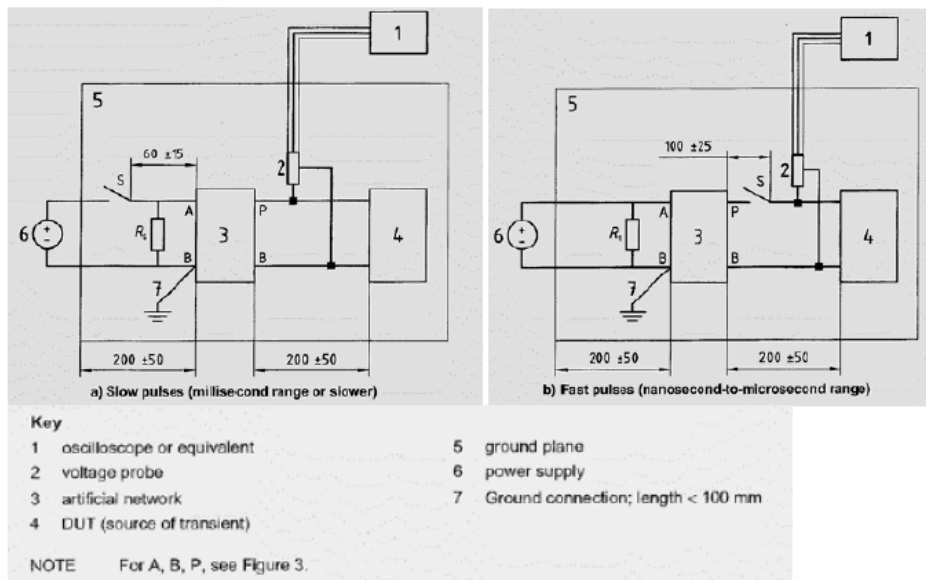


**2.4.1.2 Tests result:** no degradation of any performance were registered during tests.

### 2.3. Tests to emissions of conducted disturbances (annex 10)

**2.5.1. Test methods:** tests were performed acc.ISO 7637-2 2<sup>nd</sup> edition 2004 and amendment 1 2008 as described in Annex 10 with required test levels given in table 2.

**2.5.1.1. Details to test:** E.S.A were connected to car battery and observed with CCD camera during operations and tests.



**2.5.1.2 Tests result:** passed conducted disturbances

Company: SGS-TÜV Saarland Forster GmbH  
 Operator: S.Turnsek

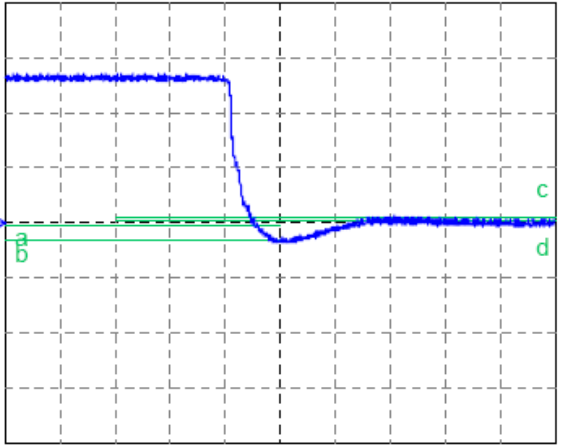
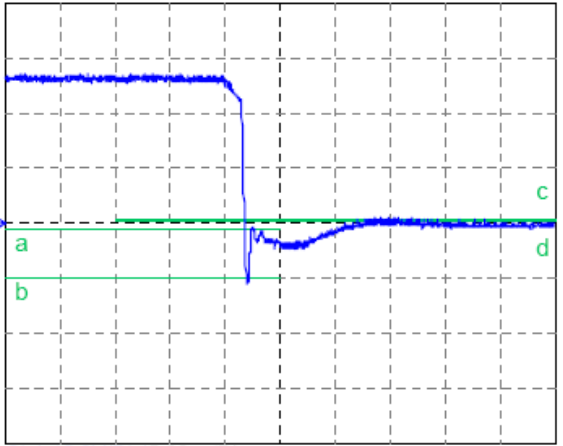
Manufacturer: JULUEN ENTERPRISE CO., LTD.  
 Modelno.: M36  
 Operating mode: light mode  
 Date of test: 02.01.2013

Nominal voltage: 24.00 Volt  
 Test voltage: 27.00 Volt  
 Shunt resistor Rs: no shunt  
 Executed test: Voltage transient emission test  
 Test description: 10 transients, 3 sec switch off, 10 sec delay time between repetitions  
 Limits: 24V System, +150V/-450V

**Fast transients:**

Transient	Amplitudes	Transient times	Figure
2 of 10 Max. pos. amplitude	Us1 = -1.2V Us2 = 0.7V	tr = 16.9us, td = 0.00us, tf = 0.00us, tr = 0.22us, td = 0.00us, tf = 0.00us, a = 0.39V, b = 3.52V, c = 5.27V, d = 0.59V	<p>Ch1-10.0V/Div 5.00us/Div</p>
3 of 10 Max. neg. amplitude	Us1 = -1.3V Us2 = 0.6V	tr = 17.4us, td = 0.00us, tf = 0.00us, tr = 0.02us, td = 0.00us, tf = 0.00us, a = 0.39V, b = 3.52V, c = 5.27V, d = 0.59V	<p>Ch1-10.0V/Div 5.00us/Div</p>

Slow transients:

Transient	Amplitudes	Transient times	Figure
6 of 10 Max. pos. amplitude	Us1 = -29.9V Us2 = -24.8V	tr = 1.6us, td = 8.38us, tf = 6.80us, tr = 3.30us, td = 0.00us, tf = 0.00us, a = -0.39V, b = -3.52V, c = 1.05V, d = 0.12V	 <p>Ch1-10.0V/Div 5.00us/Div</p>
1 of 10 Max. neg. amplitude	Us1 = -37.3V Us2 = -25.2V	tr = 0.2us, td = 0.64us, tf = 0.32us, tr = 1.62us, td = 0.00us, tf = 0.00us, a = -1.13V, b = -10.19V, c = 0.702V, d = 0.08V	 <p>Ch1-10.0V/Div 5.00us/Div</p>

Positive voltage transients:  $U_{max}=+0,7V$   
 Negative voltage transients:  $U_{max}= -37,3V$

- 2.6 Date of tests:** 02.01.2013
- 2.7 Place of tests:** SGS-TÜV Saarland Forster GmbH  
Saarbrücker Str. 1  
66706 Perl- Sinz
- 2.8 Remarks:** all versions as stated in the test report are covered with test object(s) respectively. No further tests were necessary. Tested model was M36.

### **3. Annex**

- 3.1.** not applicable  
**3.2.** not applicable

### **4. Final statement**

The description map and in that described type comply with above standards. Test lab is recognized from recognition body of Federal Office for Vehicles, Germany under the registration number: KBA-P 00029-98. Parts of this report are not allowed to reproduced or published without written permission from test lab.  
This report covers complete sheet 4-15.

Perl , 08.01.2013  
( Place ) ( date )

Karl-Heinz Forster  
(Head of test lab) (signature)



( stamp of test lab )

# JULUEN ENTERPRISE CO., LTD

8F. -1, No.502, Da- An Rd., Shulin City, Taipei County 238, Taiwan, (R.O.C.)

## Authorization

This is to confirm that we authorize

**SGS-TÜV Saarland Forster GmbH**  
**Saarbrücker Strasse 1**  
**66706 Perl**  
**Germany**

for

product name : Warning Light  
type /models : M36  
directive : ECE Regulation No.10R04  
alternative type/ models : M37 、 TLED03 、 TLED04 、 TDSE4 、 TDXL6 、 SE3 、  
SE4 、 XS4 、 XL6 、 XLED 、 XSLED04 、 SQ4 、 LE 、  
M38 、 M39

for approvals in behalf of

applicant name : JULUEN ENTERPRISE CO., LTD

address : 8F-1, No.502, Da An Rd., Shulin City, Taipei County,  
238 ,Taiwan, (R.O.C.)

Place,date

Signature and stamp

TAIWAN,02012013

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# JULUEN ENTERPRISE CO., LTD.

8F-1, No.502 Da An Rd., Shulin City, Taipei County 238, Taiwan, (R.O.C.)

## Declaration

We

company name : JULUEN ENTERPRISE CO., LTD

address : 8F-1, No.502, Da- An Rd., Shulin City,  
Taipei County 238, Taiwan, (R.O.C.)

declare that products models:

M36, M37, TLED03, TLED04, TDSE4, TDXL6, SE3, SE4, XS4, XL6,  
XLED, XSLED04, SQ4, LE, M38, M39

used identical circuit (baugleich) as tested model M36. All constructions are exactly same, except the design of enclosure difference.

TAIWAN, 02012013

---

Country, date



---

signature

# Report of the manufacturer

Report/Application No.: 32206CU, M36

Make (trade name of manufacturer): Juluen Enterprise Co., Ltd.

Type M36

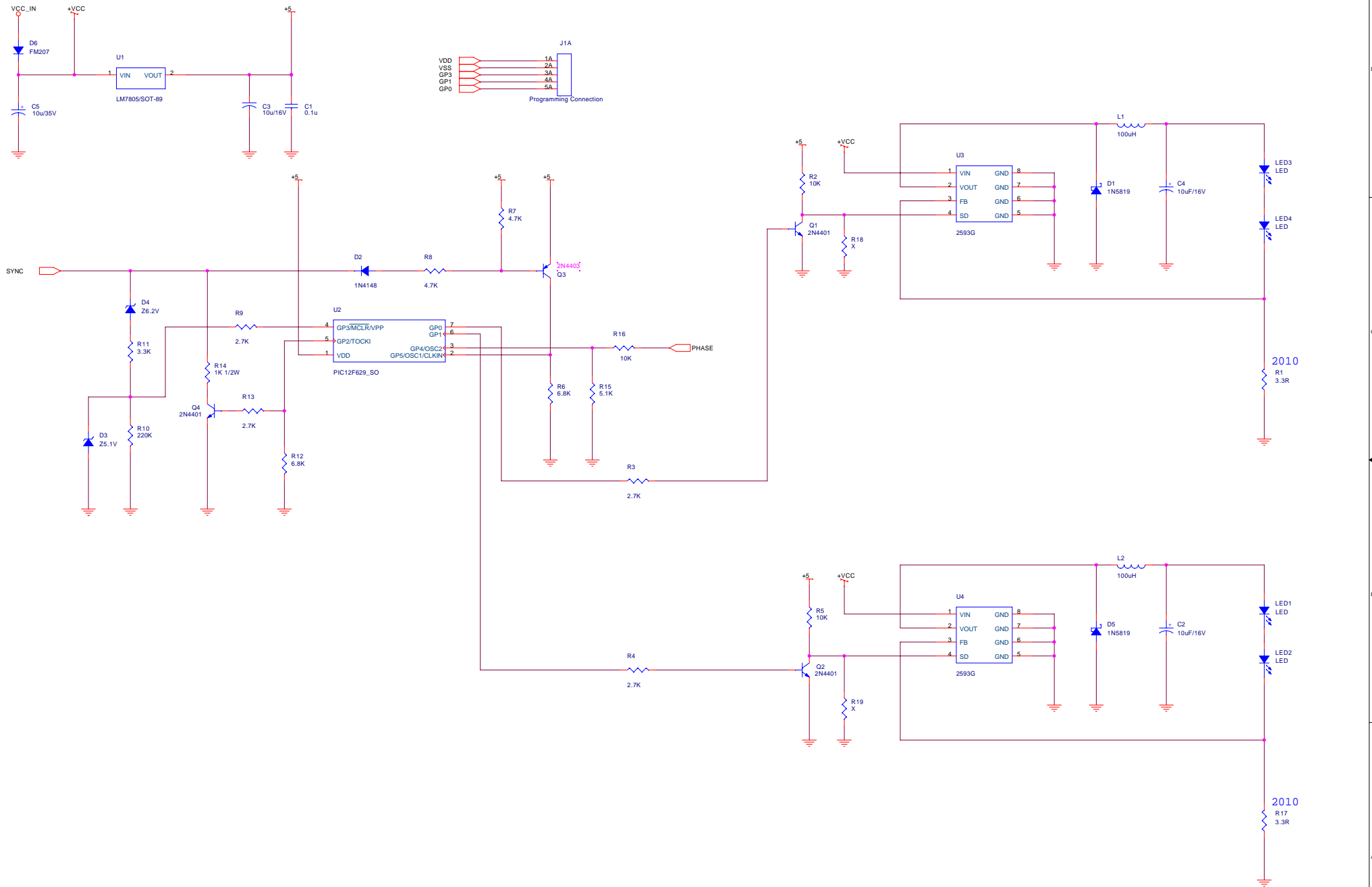
General commercial description(s): Warning Light

Version(s)/Variant(s): M37, TLED03, TLED04, TDSE4, TDXL6, SE3, SE4, XS4, XL6, XLED, XSLED04, SQ4, LE, M38, M39

Name and address of manufacturer: JULUEN ENTERPRISE CO., LTD.  
8F.- 1, NO. 502, DA-AN RD., SHULIN CITY,  
TAIPEI COUNTY 238, TAIWAN (R.O.C.)

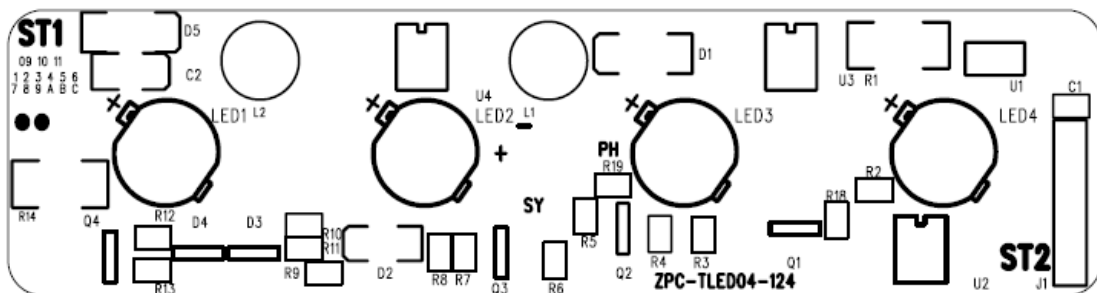
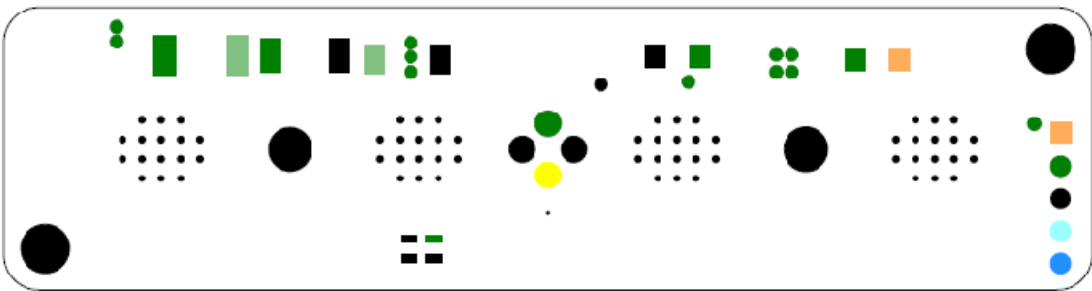
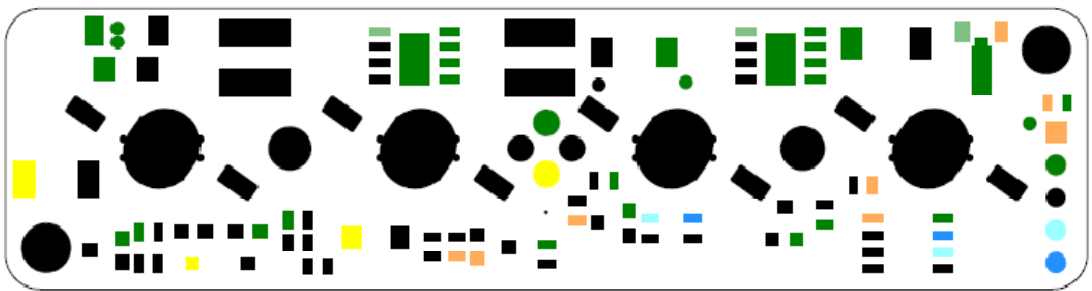
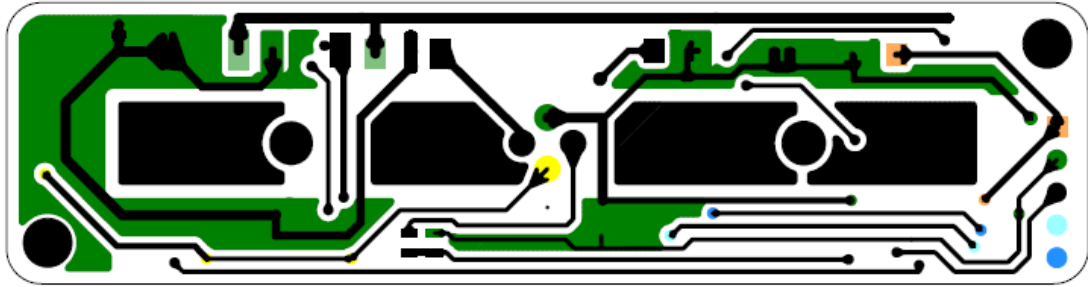
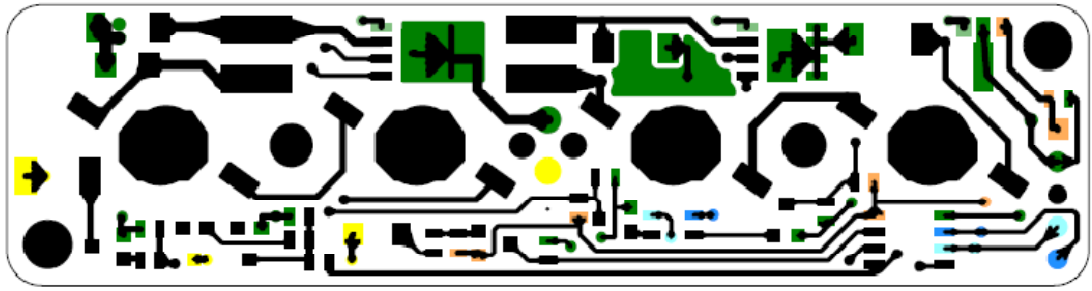
## Contents

Technical Documents	Description	Sheet
Schematic	ORS-B36-D3	1
Layout	PCB-M36-D3	1
BOM	BOMOFYPCB	1
Photo E.u.T.	Photo	1



<b>JULUEN Enterprise Co.,Ltd.</b>			
Title			
M36-D3			
Size	Document Number		Rev
C	ORD-M36-D3		1.0
Date	Thursday, September 20, 2012	Sheet	1 of 1
Approval	Date	Designer	Date
JAMES	2012/09/20	TONY	2012/09/20





ITEM	DESCRIPTION	PACKAGE
PCB	ZPC-TLED04-124	FR-4 /1mm
R1	3.3R	2010
R2	10K	0603
R3	2.7K	0603
R4	2.7K	0603
R5	10K	0603
R6	6.8K	0603
R7	4.7K	0603
R8	4.7K	0603
R9	2.7K	0603
R10	220K	0603
R11	3.3K	0603
R12	6.8K	0603
R13	2.7K	0603
R14	1K	MEMF1/2WS
R15	5.1K	0603
R16	10K	0603
R17	3.3R	2010
R18	X	X
R19	X	X
D1	1N5819	1812
D2	1N4148	1206
D3	Z5.1V	SOT-23
D4	Z6.2V	SOT-23
D5	1N5819	1812
D6	FM207	DO-214AC(SMA)
C1	0.1U	0603
C2	10uF/16V	A-size
C3	10uF/16V	A-size
C4	10uF/16V	A-size
C5	10uF/35V	C-size
L1	100uH	5.8*4.5
L2	100uH	5.8*4.5
Q1	ZTRBTC2411N3	SOT-23
Q2	ZTRBTC2411N3	SOT-23
Q3	ZTRBTA1036N3	SOT-23
Q4	ZTRBTC2411N3	SOT-23
U1	GM78L05-A	SOT-89
U2	PIC12F629	SO-8
U3	2593P	SO-8
U4	2593P	SO-8
+	R-WIRE	20AWG
-	B-WIRE	20AWG
SYNC	Y-WIRE	20AWG
PAHSE	W-WIRE	20AWG

