



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

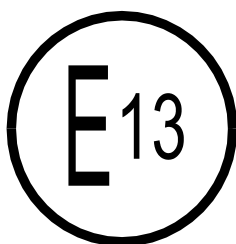


Référence: E13*10R00*10R05*14244*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Luxembourg, le 25 janvier 2017

Communication concernant:⁽²⁾
Communication concerning:



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approval withdrawn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

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

Numéro d'homologation par type:
Approval number:

E13*10R00*10R05*14244*00

Marque d'homologation:
Approval mark:

 10R - 05 14244

1. Fabricant: (marque commerciale du constructeur):

Make (trade name of manufacturer):

DTEK DETAY TEKNOLOJI VE OTOMOTIV
SANAYI TICARET LIMITED SİRKETİ

2. Type:
Type:

MOBILEYE

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

Car Charger Dual USB 4.2A

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

YJ-DS2014

3.	Moyens d'identification du type, s'ils sont marqués sur le véhicule / composant / entité technique⁽²⁾: Means of identification of type, if marked on the vehicle / component / separate technical unit:	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:	DTEK DETAY TEKNOLOJI VE OTOMOTIV SANAYI TICARET LIMITED SIRKETI BUYUK ISTANBUL OTOGARI, YENI DOGU CARSISI NO. A158 BAYRAMPASA, ISTANBUL, TURKEY
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:	Self adhesive label on the housing
7.	Adresse(s) de l' (des) usine(s) d'assemblage: Address(es) of assembly plant(s):	Dong Guan Yu Jie Electronics Co., Ltd. A2 No. 6 Maiyuan Road, Xin'an District, Chang'an Town, Dongguan City, Guangdong Province, P.R. China
8.	Informations supplémentaires (s'il y a lieu): Additional informations (where applicable):	See appendix
9.	Autorité déléguée: Assigned authority:	<i>Société Nationale de Certification et d'Homologation L-5201 Sandweiler</i>
	Service technique responsable de l'exécution des essais: Technical service responsible for carrying out the tests:	ATE EL s.à r.l. 14, op Huefdreisch L-6871 Wecker
10.	Date du rapport d'essai: Date of test report:	20.12.2016
11.	Numéro du rapport d'essai: Number of test report:	65DDA0001A
12.	Remarques (s'il y a lieu): Remarks (if any):	See appendix

13. **Lieu:** Luxembourg
Place:

14. **Date:** 25 janvier 2017
Date:

15. **Signature:**
Signature:

**Pour le Ministre du Développement durable
et des Infrastructures**

Pour la SNCH



Marco FELTES
Inspecteur Principal 1^{er} en rang



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:

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

Appendice

Appendix

au certificat d'homologation par type N° E13*10R00*10R05*14244*00
to type-approval certificate N° E13*10R00*10R05*14244*00
concernant l'homologation par type d'un sous ensemble électrique/électronique selon le Règlement N° 10.
concerning the type-approval of an electrical/electronic sub-assembly under Regulation N° 10.

- | | | |
|---------------|--|---|
| 1. | Informations supplémentaires.
Additional information. | |
| 1.1. | Tension nominale du système électrique [V]:
Electrical system rated voltage [V]: | 12V DC |
| | Masse:
Ground: | Negative / Positive ⁽²⁾ |
| 1.2. | Ce SEEE peut être utilisé sur n'importe quel type de véhicule avec les restrictions suivantes:
This ESA can be used on any vehicle type with the following restrictions: | None |
| 1.2.1. | Conditions d'installation, s'il y a lieu:
Installation conditions, if any: | None |
| 1.3. | CE SEEE peut seulement être utilisé sur les types de véhicules suivants:
This ESA can be used only on the following vehicle types: | Not applicable |
| 1.3.1. | Conditions d'installation, s'il y a lieu:
Installation conditions, if any: | Not applicable |
| 1.4. | La (les) méthode(s) spécifique(s) d'essais utilisée(s) et les bandes de fréquences couvertes pour déterminer l'immunité étai(ent): (indiquez s'il vous plaît à partir de l'annexe 9 la méthode précise utilisée).
The specific test method(s) used and the frequency ranges covered to determine immunity were: (Please specify precise method used from annex 9). | Not applicable |
| 1.5. | Laboratoire accrédité au titre de la norme ISO 17025 et reconnu par l'autorité d'homologation chargé d'effectuer les essais:
Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: | Not applicable |
| 2. | Commentaires:
Remarks: | None |



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L-5201 Sandweiler



Référence: E13*10R00*10R05*14244*00

Annexes: - Rapport Technique
- Fiche de Renseignements du constructeur

Luxembourg, le 25 janvier 2017

Index du dossier d'homologation

Index to type-approval report

Numéro d'homologation:

Approval number:

E13*10R00*10R05*14244*00

Révision:

Revision:

00

Marque de fabrique ou de commerce:

Trade name or mark:

DTEK DETAY TEKNOLOJI VE OTOMOTIV
SANAYI TICARET LIMITED SIRKETI

Type:

Type:

MOBILEYE

1. Procès-verbal d'essai:

Test report:

N° 65DDA0001A

- Technical report:

Page 1 & 2

- Index:

Annex I1 – Page 1

- Test report:

Annex T – Page 1 to 8

- General information:

Annex GI1 – Page 1 & 2

2. Dossier du constructeur:

Report of the manufacturer:

N° MOBILEYE-00-R10

- Manufacturer's information document:

Page 1 to 11

3. Autres documents annexés:

Other documents annexed:

Not applicable

4. Date de délivrance de l'homologation initiale:

Date of issue of initial type approval:

25.01.2017

5. Date de la dernière délivrance de pages révisées:

Date of last issue of revised pages:

Not applicable

6. Date de la dernière délivrance d'une homologation révisée:

Date of last extension:

Not applicable



Allied Technology Experts-
Enterprise of Luxembourg

Technical Report No. 65DDA0001A
Type: MOBILEYE

Tests and inspection concerning

ELECTROMAGNETIC COMPATIBILITY

according to the ECE Regulation No. 10 including all amendments
up to Series 05, Supplement 1 of 08.10.2016

Manufacturer: DTEK DETAY TEKNOLOJI VE OTOMOTIV SANAYI TICARET LIMITED SIRKETI
BUYUK ISTANBUL OTOGARI,
YENI DOGU CARSISI,
NO. A158 BAYRAMPASA,
ISTANBUL, TURKEY

Type: MOBILEYE

Type of Approval:	Type Approval No.:	Manufacturer:
ECE	E13*10R00*10R05*....*00	DTEK DETAY TEKNOLOJI VE OTOMOTIV SANAYI TICARET LIMITED SIRKETI

Conclusion: The tests and checks carried out have shown the compliance of the type described in this report and the attached annexes with the Regulation mentioned above.

Shanghai, 20.12.2016

p.o. Mengting Xu
Ingénieur Inspecteur

Index: see Annex I1

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1 Tests and inspection results

Refer to Annex T

2 Type and variants

The tests and inspections carried out and described in this technical report have been selected in order to include the following variants and versions of the type and its equipments, as far as these are relevant for the topic of this report, into the judgement:

As stated in Annex MID (Manufacturer's Information Document):	Item
-Variant(s)	2.

3 Remark

3.1 General

None.



Allied Technology Experts-
Enterprise of Luxembourg

Annex I1 Page 1

Technical Report No. 65DDA0001A
Type: MOBILEYE

Compilation of Dossier No.: 65DDA0001

Extension 00

Technical Report no.: 65DDA0001A

page 1 and 2

Composition of Annex:

I1:	Index	page 1
T:	General Test Report	page 1 to 8
GI1:	General Information	page 1 to 2
MID:	Manufacturer's Information Document	page 1 to 11
	Index of the appendices to the Manufacturer's Information Document:	see Annex MID,page 1



General Test Report

The data in this section refer only to the items submitted to testing or inspection.

0 Abstract

0.1 Type MOBILEYE

1 Dates and resources

1.1 Date of receipt of test item 17.11.2016

1.2 Date of test 17.11.2016

1.3 Place of test CQC Intime(Suzhou)Testing Technology Co., Ltd.
Suzhou, Jiangsu, China

1.4 Testing site and testing equipment:

All measuring and test equipment used to carry out the inspections are in accordance with ISO 17025 and the regulatory act(s) applied.

1.5 Resources

1.5.1 Configuration other than "REESS charging mode coupled to the power grid"

1.5.1.1 Broadband and narrowband emissions:

1.5.1.1.1 Broadband emissions

The requirements of item 3 of Annex 7 of the Regulation have been fulfilled.
The test have been conducted in measurements performed in a semi anechoic chamber.

1.5.1.1.2 Narrowband emissions

The requirements of item 3 of Annex 8 of the Regulation have been fulfilled.
The test have been conducted in measurements performed in a semi anechoic chamber.

1.5.1.2 The immunity of ESAs to electromagnetic radiation

According to item 6.10.3. of the Regulation, the ESAs with no immunity related functions need not be tested for immunity to radiated disturbances.

1.5.1.3 The immunity to transient disturbances conducted along supply lines

The requirements of item 2 of Annex 10 of the Regulation have been fulfilled.
This test method shall ensure the immunity of ESAs to conducted transients on the vehicle power supply.



General Test Report

1.5.1.4 The emission of conducted disturbances

The requirements of item 3 of Annex 10 of the Regulation have been fulfilled.
This test method shall ensure limit conducted transients from ESAs to the vehicle power supply.

1.5.2 Configuration "REESS charging mode coupled to the power grid"

1.5.2.1 Broadband emissions

Not applicable. Other ESA's than involved in "REESS charging mode coupled to the power grid"

1.5.2.2 The immunity of ESAs to electromagnetic radiation

Not applicable. Other ESA's than involved in "REESS charging mode coupled to the power grid"

1.5.2.3 Emission of harmonics on AC power lines from an ESA

Not applicable. Other ESA's than involved in "REESS charging mode coupled to the power grid"

1.5.2.4 Emission of voltage changes, voltage fluctuations and flicker on AC power lines from an ESA

Not applicable. Other ESA's than involved in "REESS charging mode coupled to the power grid"

1.5.2.5 Emission of radiofrequency conducted disturbances on AC or DC power lines from an ESA

Not applicable. Other ESA's than involved in "REESS charging mode coupled to the power grid"

1.5.2.6 Emission of radiofrequency conducted disturbances on network and telecommunication access from an ESA

Not applicable. Other ESA's than involved in "REESS charging mode coupled to the power grid"

1.5.2.7 Immunity of an ESA to electrical fast transient/burst disturbances conducted along AC and DC power lines

Not applicable. Other ESA's than involved in "REESS charging mode coupled to the power grid"

1.5.2.8 Immunity of ESA to surge conducted along AC and DC power lines

Not applicable. Other ESA's than involved in "REESS charging mode coupled to the power grid"

2 Test object

The tests were conducted with a test ESA which is representative of the ESA type to be approved.



General Test Report

2.1 Description

The ESA is a Car Charger Dual USB 4.2A.

The ESA can be used with 12V voltage.

ESA configuration: Other ESA's than involved in "REESS charging mode coupled to the power grid"

ID: MOBILEYE

2.2 Equipment

Optional equipment installed on the ESA: none

3 Tests and inspections

3.1 Measurement of radiated broadband electromagnetic emissions from ESA

The test is performed on 12V voltage system.

Antenna position: According to item 6.5.2.1 of the Regulation

Bandwidth: 120 kHz

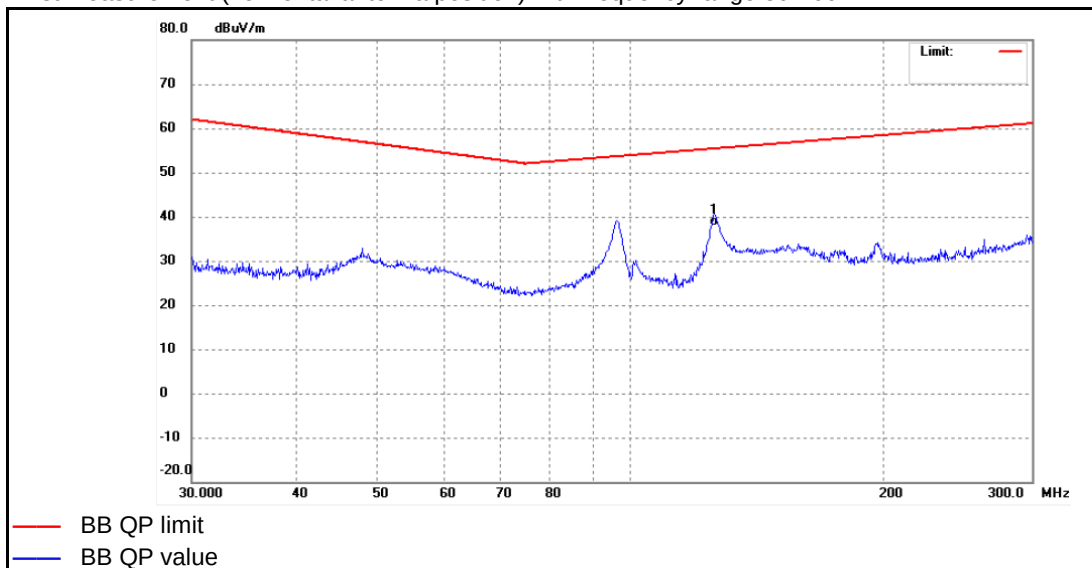
Frequency range: 30 to 1000 MHz

Detector: Quasi Peak (CISPR 12)

ESA condition: According to item 2 of Annex 7 of the Regulation

3.1.1 Test results:

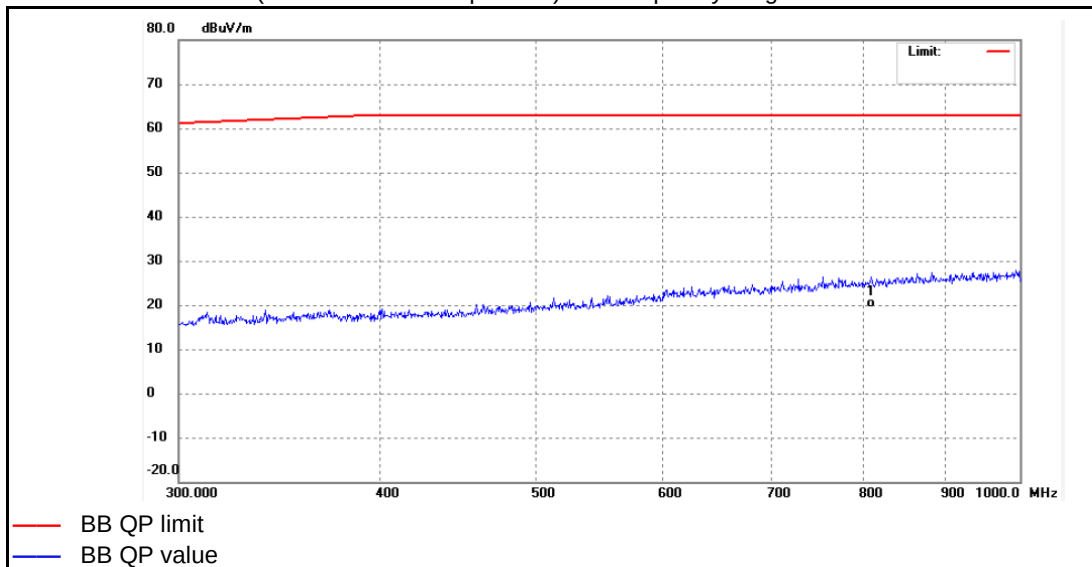
First measurement (horizontal antenna position) with frequency range 30-200 MHz



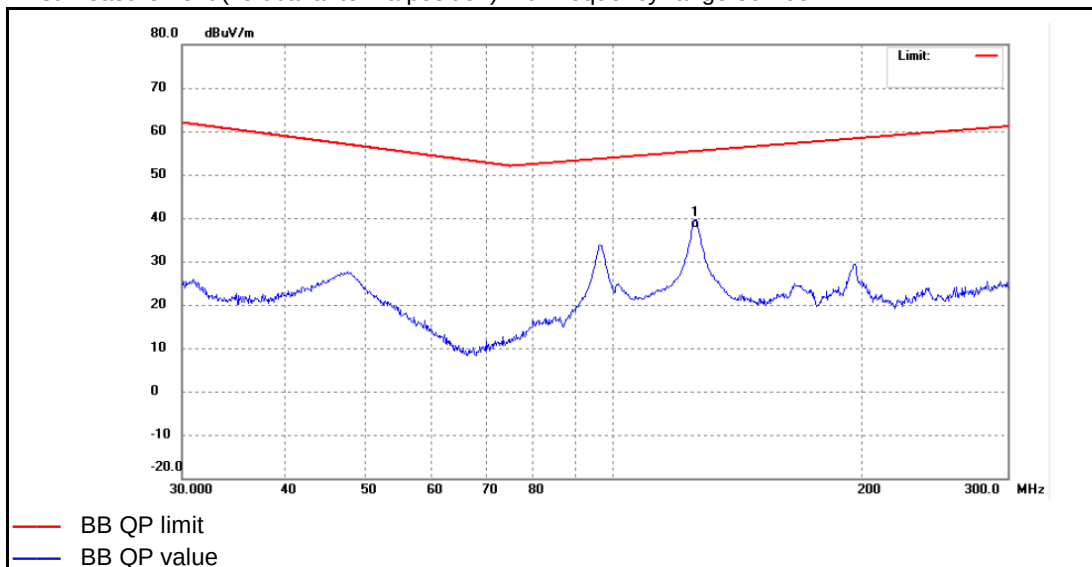


General Test Report

Second measurement (horizontal antenna position) with frequency range 200-1000 MHz



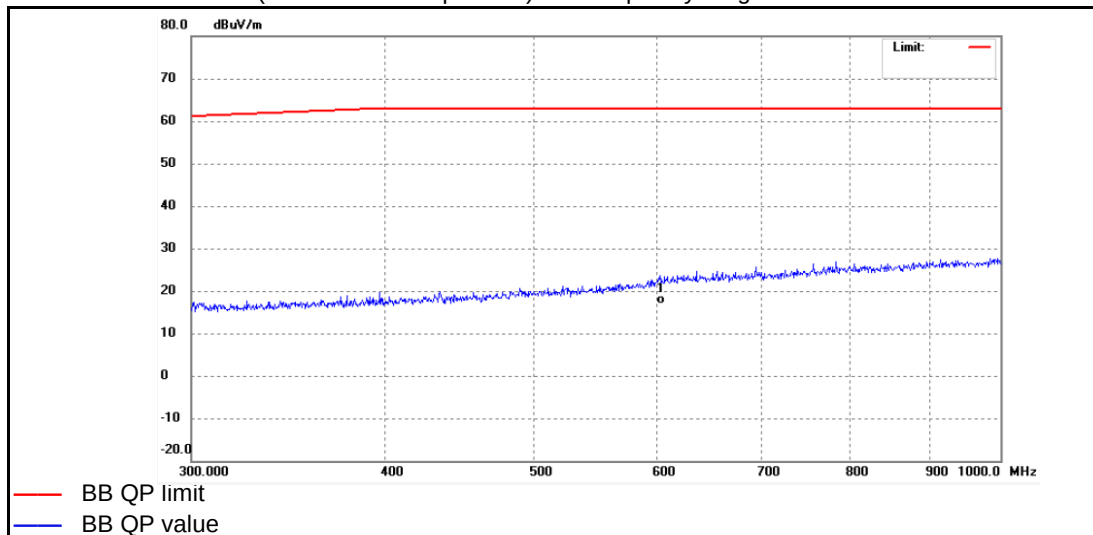
First measurement (vertical antenna position) with frequency range 30-200 MHz





General Test Report

Second measurement (vertical antenna position) with frequency range 200-1000 MHz



The requirements of item 6.5.2.2 of the Regulation are fulfilled.

3.2 Measurement of radiated narrowband electromagnetic emissions from ESA

The test is performed on 12V voltage system.

Antenna position: According to item 6.6.2.1 of the Regulation

Bandwidth: 120 kHz

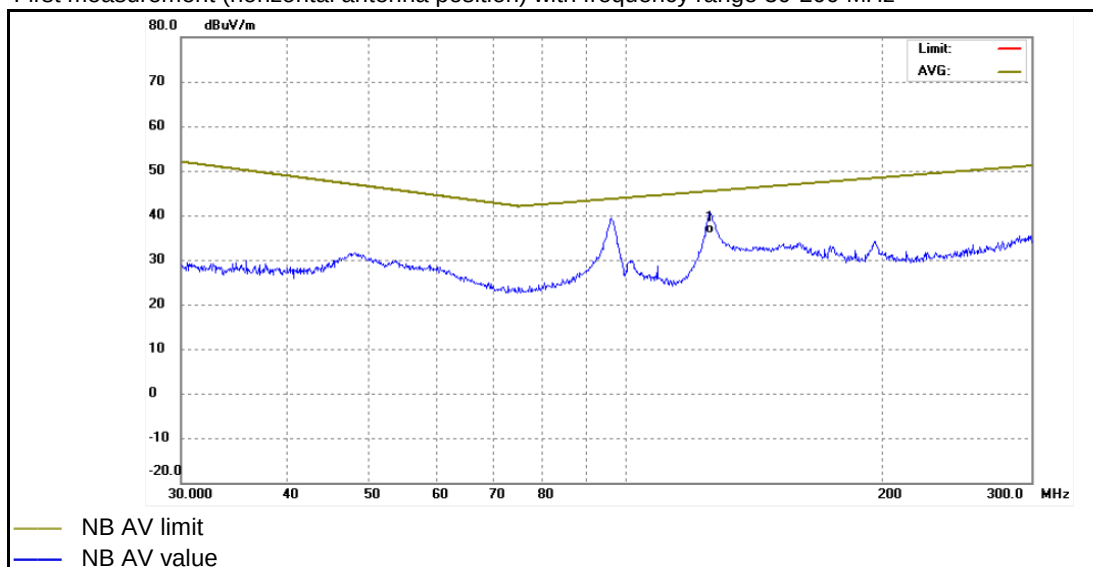
Frequency range: 30 to 1000 MHz

Detector: Average detector

ESA condition: According to item 2 of Annex 8 of the Regulation

3.2.1 Test results

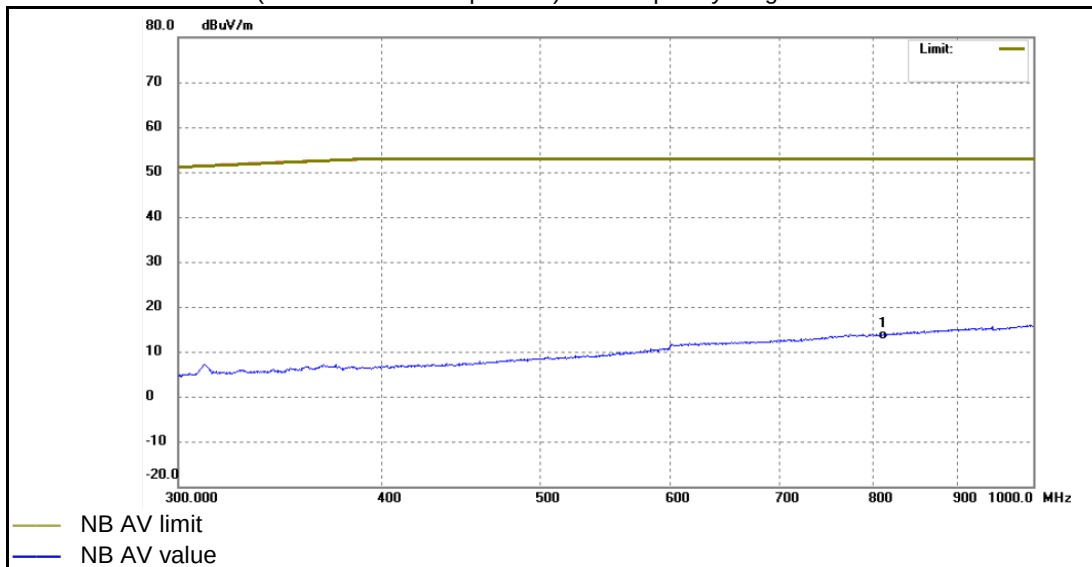
First measurement (horizontal antenna position) with frequency range 30-200 MHz



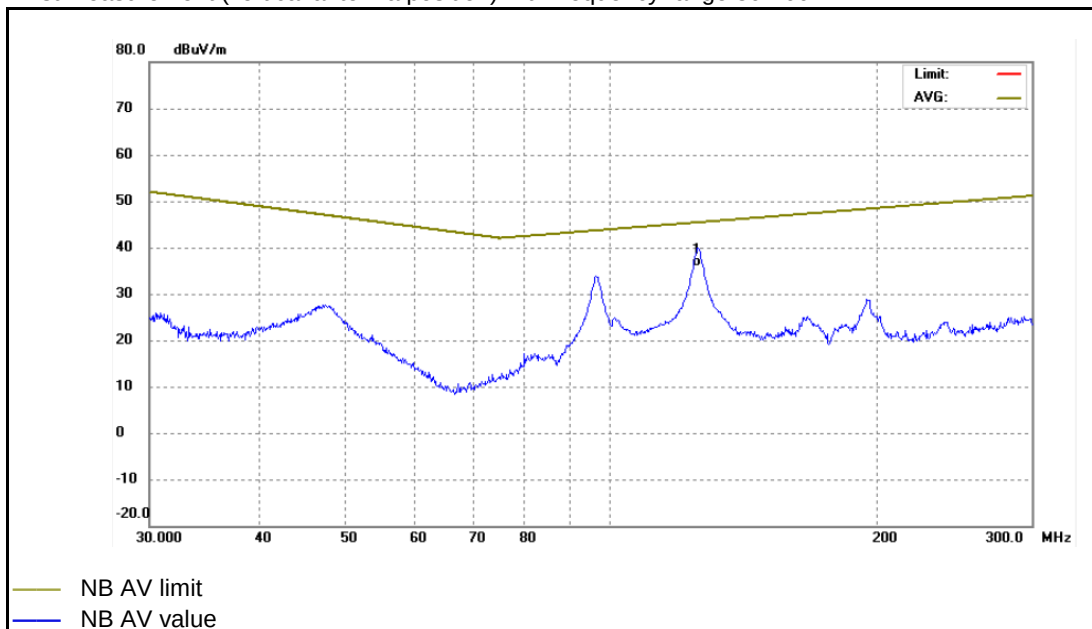


General Test Report

Second measurement (horizontal antenna position) with frequency range 200-1000 MHz

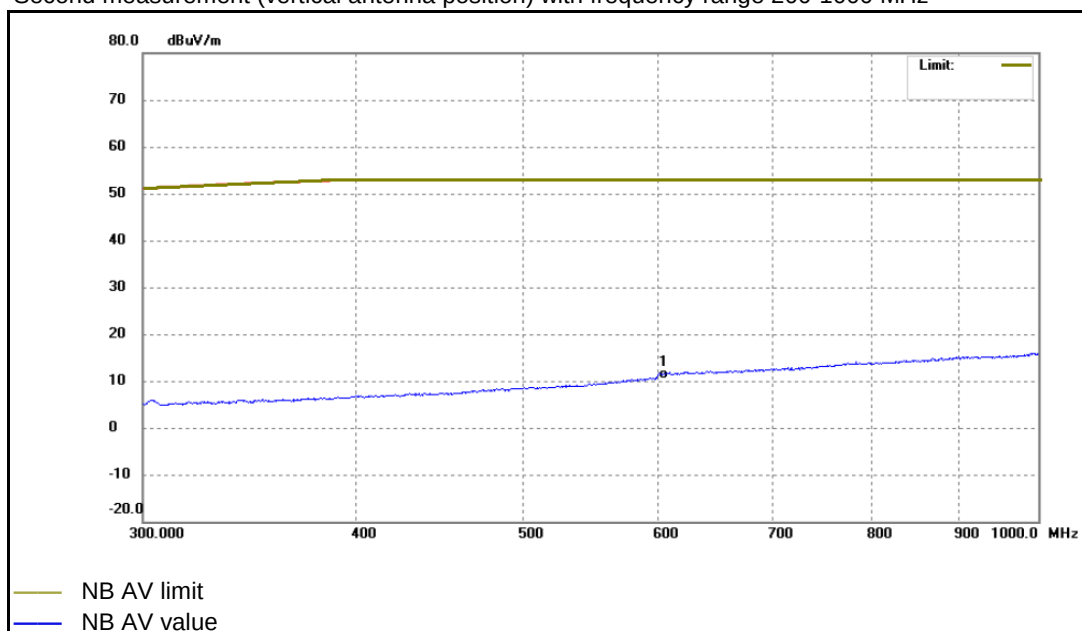


First measurement (vertical antenna position) with frequency range 30-200 MHz



General Test Report

Second measurement (vertical antenna position) with frequency range 200-1000 MHz



The requirements of item 6.6.2.2 of the Regulation are fulfilled.

3.3 Measurement of the immunity to transient disturbances conducted along 12/24V supply lines

The test is performed on 12V voltage system.

Method of testing: ISO 7637-2

Test pulse number: 1, 2a, 2b, 3a/3b,4

Immunity test level: III

ESA condition: According to item 4 of ISO 7637-2

3.3.1 Test results

12V system

Test pulse number	Test voltage	Number of pulses/duration	Required functional status	Functional status during test
1	-75V	5000 pulses	D	C
2a	+37V	5000pulses	D	A
2b	+10V	10 pulses	D	C
3a	-112V	1 h	D	A
3b	+75V	1 h	D	A
4	-6V	1 pulse	D	B

The requirements of item 6.9.1 of the Regulation are fulfilled.



General Test Report

3.4 Measurement of Emission of transient conducted disturbances generated by ESAs on 12/24V supply lines

The test is performed on 12V voltage system.

Method of testing: ISO 7637-2

ESA condition: According to item 4 of ISO 7637-2

3.4.1 Test results

12V system

Polarity of pulse amplitude	Maximum allowed pulse amplitude for vehicle with 12 V system	Result
Positive	+75V	Pass
Negative	-100V	Pass

The requirements of item 6.7.1 of the Regulation are fulfilled.



General Information

[]	Numbering according to annex 3B of the type-approval certificate following Regulation No.10 Communication concerning the type-approval / extension of type-approval	
	EC type-approval mark to be affixed on ESA :	E13 10R 05
[1.]	Make (trade name of manufacturer)	DTEK DETAY TEKNOLOJI VE OTOMOTIV SANAYI TICARET LIMITED SIRKETI
[2.]	Type and general commercial description: Type: Variant(s): Commercial description(s):	MOBILEYE YJ-DS2014 Car Charger Dual USB 4.2A
[3.]	Means of identification of type, if marked on the vehicle/ component/ separate technical unit:	See item 6
[3.1.]	Location of that marking:	See item 6
[4.]	Category of vehicle:	Not applicable
[5.]	Name and address of manufacturer:	DTEK DETAY TEKNOLOJI VE OTOMOTIV SANAYI TICARET LIMITED SIRKETI BUYUK ISTANBUL OTOGARI, YENI DOGU CARSISI, NO. A158 BAYRAMPASA, ISTANBUL, TURKEY
[6.]	In the case of components and separate technical units, location and method of affixing of the approval mark:	Self adhesive label on the housing
[7.]	Address(es) of the production plant(s):	Dong Guan Yu Jie Electronics Co., Ltd A2 No. 6 Maiyuan Road, Xin' an District, Chang' an Town, Dongguan City, Guangdong Province, P.R. China
[8.]	Additional information: (where applicable)	See appendix
[9.]	Technical service responsible for carrying out the tests:	ATE EL s.à r.l. 14, op Huefdreich L-6871 Wecker
[10.]	Date of test report:	20.12.2016
[11.]	Number of test report:	65DDA0001A



General Information

[12.] Remarks: (if any): See appendix

[13.]

[14.]

[15.]

[16.]

[17.] Reasons for extension: Not applicable

Appendix to type-approval communication form No. 65DDA0001A concerning the type-approval of an electrical/ electronic sub-assembly under Regulation No. 10

[1.] Additional information:

[1.1.] Electrical system rated voltage: 12V DC, negative ground

[1.2.] This ESA can be used on any vehicle type with the following restrictions: None

[1.2.1.] Installation conditions, if any: None

[1.3.] This ESA can only be used on the following vehicle types: Not applicable.

[1.3.1.] Installation conditions, if any: Not applicable.

[1.4.] The specific test method(s) used and the frequency ranges covered to determine immunity were: (please specify precise method used from Annex 9) Not applicable.

[1.5.] Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: Not applicable.

[2.] Remarks: None

<i>Type:</i> MOBILEYE	DTEK DETAY TEKNOLOJİ VE OTOMOTİV SANAYİ TİCARET LİMİTED ŞİRKETİ	Date : NOV.2016 Ext. : 00
UNIFORM PROVISIONS CONCERNING THE EC TYPE-APPROVAL OF AN ELECTRIC/ELECTRONIC SUBASSEMBLY WITH RESPECT TO ELECTROMAGNETIC COMPATIBILITY		
REGULATION No. 10.05		
(Information Document No. MOBILEYE-00-R10)		

INDEX OF DOCUMENTATION

<i>Page</i>	<i>Concept</i>	<i>Date</i>
2	GENERAL	NOV. 2016
3	LOCATION OF THE ECE APPROVAL MARK	NOV. 2016
4	SCHEMATIC OF THE DEVICE	NOV. 2016
5-10	PCB	NOV. 2016
11	LIST OF MAIN COMPONENT CONSTITUTING THE ESA	NOV. 2016

APPLICATION HISTORY

Extension No.	Extension Reasons	APPLICATION DATE
00	Not applicable(Base Approval)	NOV. 2016

Type: : MOBILEYE	DTEK DETAY TEKNOLOJI VE OTOMOTIV SANAYI TICARET LIMITED SIRKETI	Date : NOV.2016
		Ext. : 00

GENERAL

1. Make (trade name of manufacturer): **DTEK DETAY TEKNOLOJI VE OTOMOTIV
SANAYI TICARET LIMITED SIRKETI**
2. Type: **MOBILEYE**
Variants: **YJ-DS2014**
Commercial description(s): **Car Charger Dual USB 4.2A**
Function: **The ESA is a Car Charger Dual USB 4.2A**
3. Means of identification of type, if marked on the component/separate technical unit (a):
 - 3.1. Location of that marking:

Self adhesive label on the housing, see drawing of the ESA.
4. Name and address of manufacturer:

**DTEK DETAY TEKNOLOJI VE OTOMOTIV SANAYI TICARET LIMITED SIRKETI
BUYUK ISTANBUL OTOGARI, YENI DOGU CARSISI, NO. A158 BAYRAMPASA,
ISTANBUL, TURKEY**
Name and address of authorised representative, if any: **Not Applicable**
5. In the case of components and separate technical units, location and method of affixing of the EC approval mark:

Self adhesive label on the housing, see drawing of the ESA.
6. Address(es) of assembly plant(s):

**Dong Guan Yu Jie Electronics Co., Ltd
A2 No. 6 Maiyuan Road, Xin' an District, Chang' an Town, Dongguan City,
Guangdong Province, P.R. China**
7. This ESA shall be approved as a component/STU²⁾: **Component**
8. Any restrictions of use and conditions for fitting: **Not Applicable**
9. Electrical system rated voltage: V, positive/negative²⁾ ground
12V DC, negative ground
10. Charger: **Not Applicable**
11. Charging current: **Not Applicable**
12. Maximal nominal current (in each mode if necessary): **Not Applicable**
13. Nominal charging voltage: **Not Applicable**
14. Basic ESA interface functions: **Not Applicable**
15. Minimum R_{sce} value: **Not Applicable**

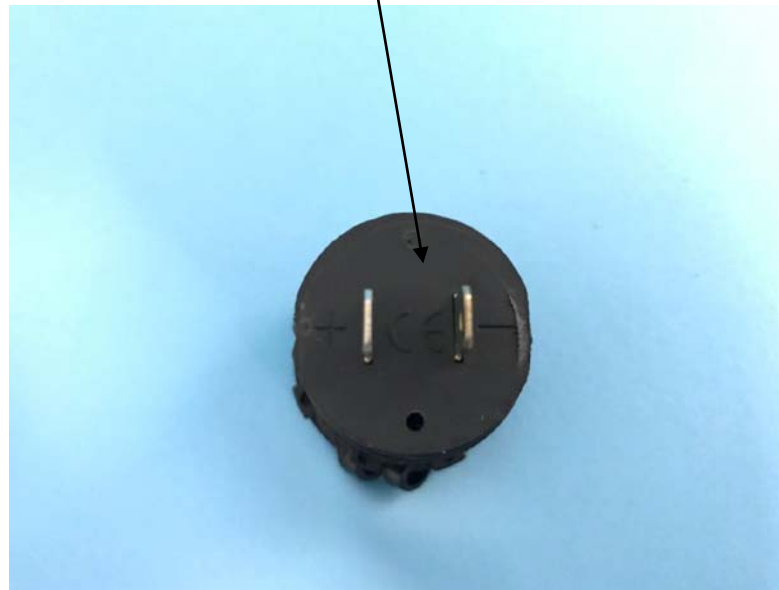
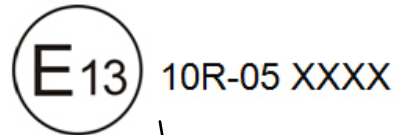
Type: : **MOBILEYE**

**DTEK DETAY TEKNOLOJİ VE OTOMOTİV
SANAYİ TİCARET LİMİTED SİRKETİ**

Date : NOV.2016
Ext. : 00

DRAWINGS OF THE ESA

LOCATION OF THE ECE APPROVAL MARK



6

5

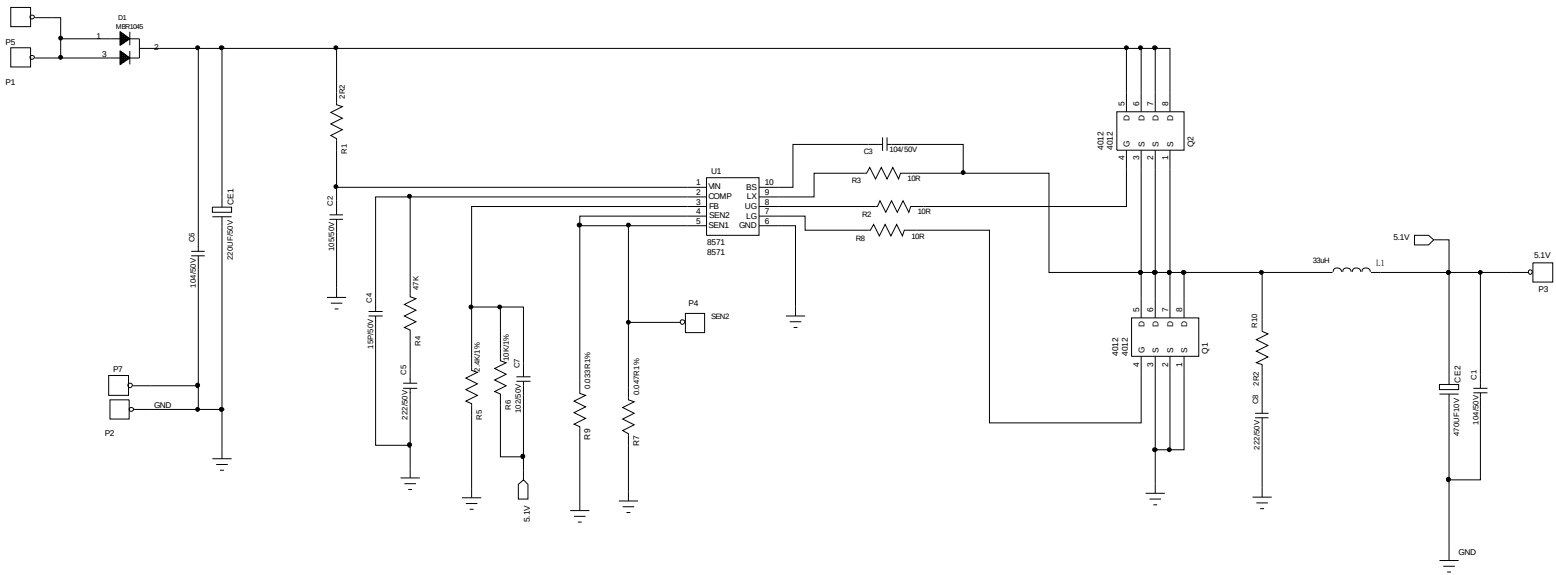
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2

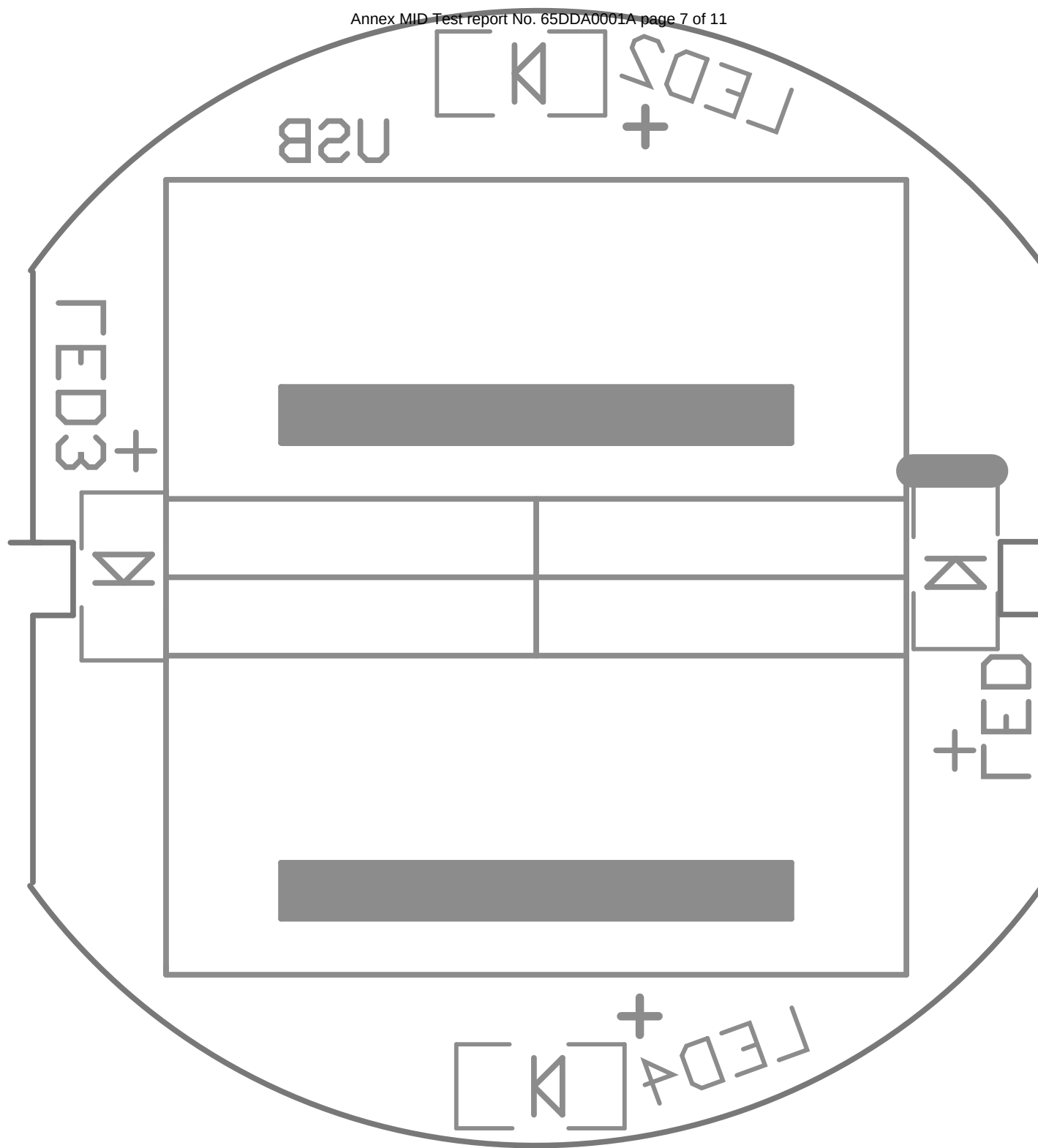
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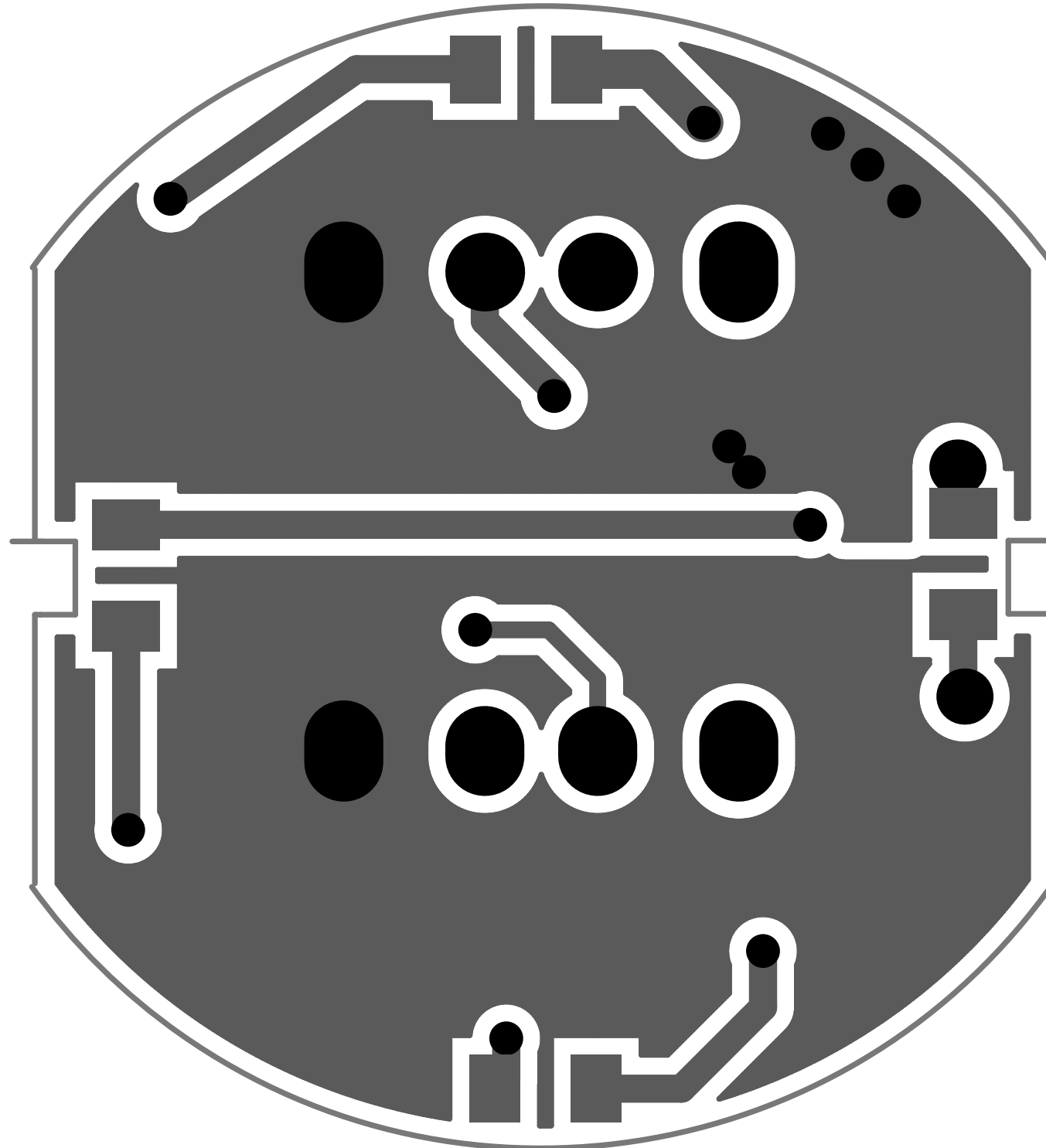
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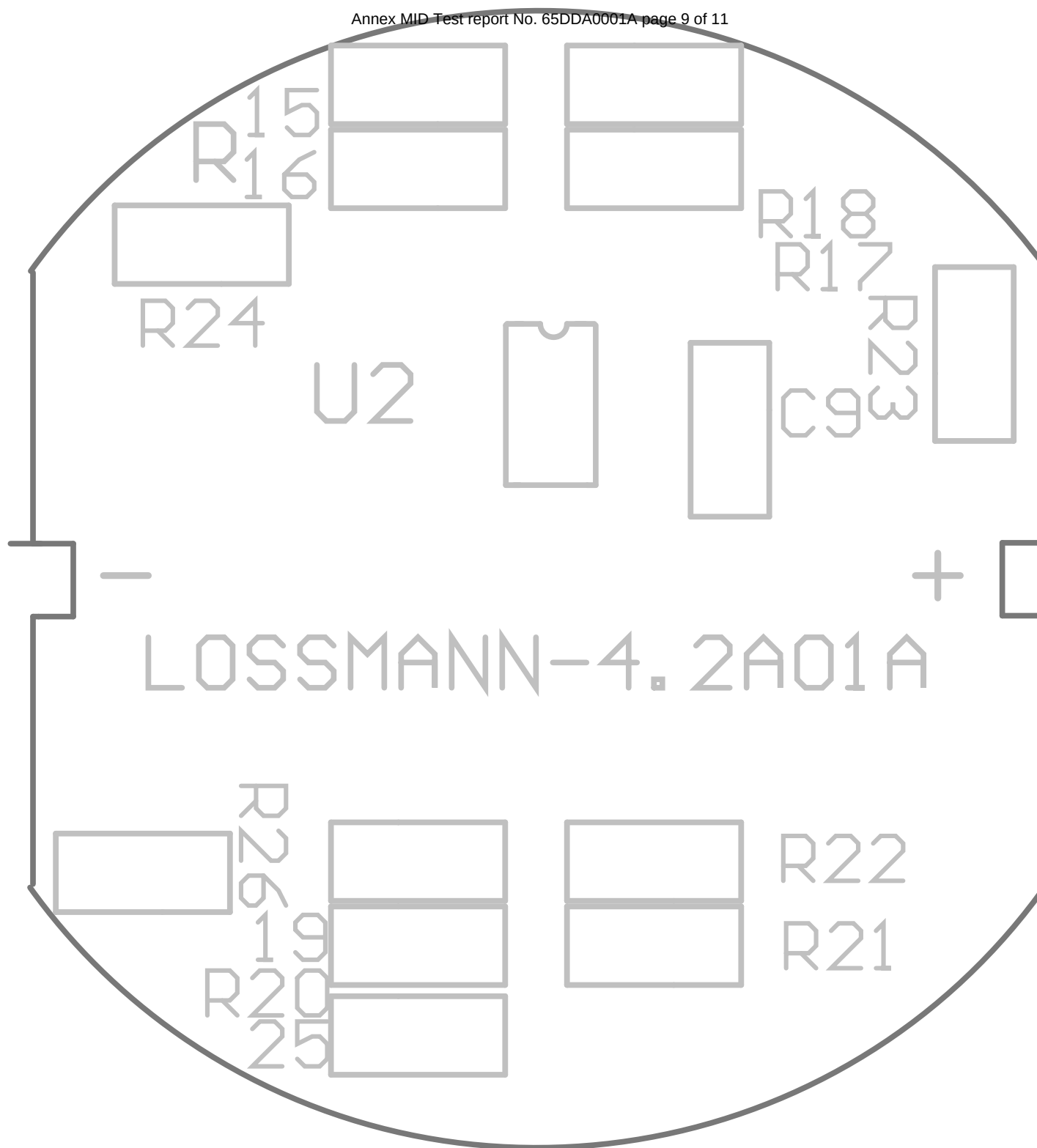


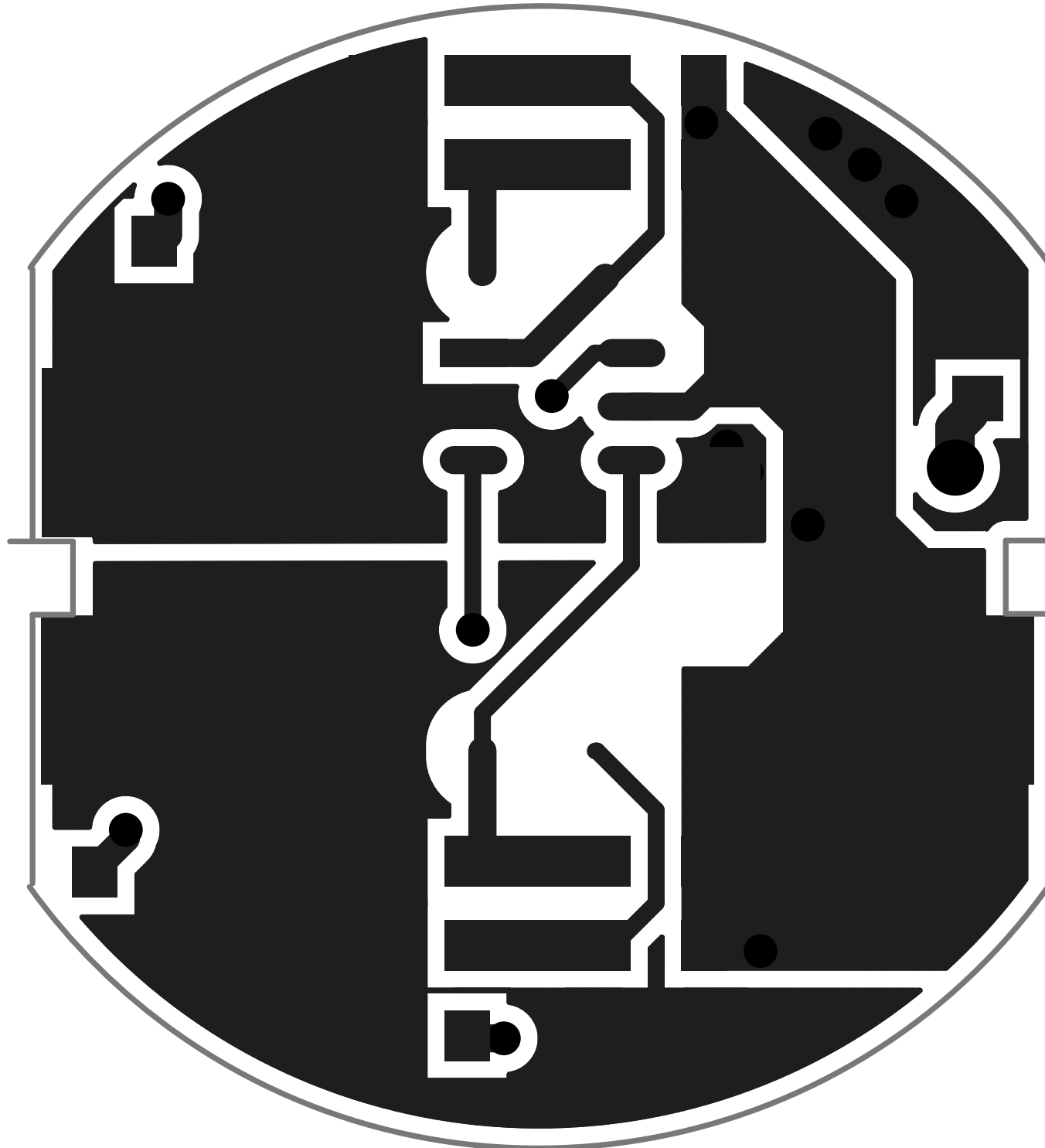
COMPANY:			
TITLE:			
CODE:	SIZE:	DRAWING NO.	REV.
A2			
SCALE:			SHEET: 1

DRAWN:	DATED:
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:









BOM						
Index	Producer	Name	Value	Decal	QTY	location
1		IC	CXW8517	SOP-8	1	U1
2		MOS	4012	SOP-8	2	Q1,2
3	YEGEO/UNIOHM	CHIP-R	RC 2.2ΩJ 5% 1/10W	0603	1	R1
4		CHIP-R	RC 4.7ΩJ 5%	0603	1	R10
5		CHIP-R	RC 10ΩJ 5%	0603	3	R2,3,8
6		CHIP-R	RC 47KΩJ 5%	0603	1	R4
7		CHIP-R	RC 2.4KΩF 1%	0603	1	R5
8		CHIP-R	RC 10KΩF 1%	0603	1	R6
9		CHIP-R	RC 0.033ΩF 1%	1206	1	R7
10		CHIP-R	RC 1206 0.047ΩF 1%	1206	1	R9
11	SAMSUNG	Wafer capacitance	MCC 151K/50V 10%	0603	1	C4
12		Wafer capacitance	MCC 102K/50V 10%	0603	1	C7
13		Wafer capacitance	MCC 222K/50V 10%	0603	1	C5
14		Wafer capacitance	MCC 472K/50V 10%	0603	1	C8
15		Wafer capacitance	MCC 104K/50V 10%	0603	3	C1,3,6
16		Wafer capacitance	MCC 105K/50V 10%	0603	1	C2
17		SMD diode	MBR1045 10A/45V	TO-227	1	D1
18	BERYL	Electrolytic capacitor	470uF/10V	6.3*12	1	CE2
19	BERYL	Electrolytic capacitor	220uF/50V	8*12	1	CE1
20	Iron silicon aluminum copper	The circular inductor	33UH±1UH ϕ0.7	ϕ 0.7	1	L1
21		Insert terminal	Electroplating white		1	positive pole
22		Insert terminal	Plating yellow		1	negative pole
23	Blue and white oil spray tin	PCB	LOSSMANN-4.2AE	24.7*19.9*1.2MM	1	
24		CHIP-R	RC 1KΩJ 5%	0603	1	R23
25		CHIP-R	RC 43KΩJ 5%	0603	2	R17,22
26		CHIP-R	RC 51KΩJ 5%	0603	4	R15,16,19,20
27		CHIP-R	RC 75KΩJ 5%	0603	2	R18,21
28		Wafer capacitance	MCC 104K/50V 10%	0603	1	C9
29		The circular inductor	LED R/O/B/G/W	0603	1	LED1,2,3,4
		USB	双口USB	H=10.5MM	1	USB
30	Blue and white oil spray tin	PCB	LOSSMANN-4.2A01A	20.3*18*1.0MM	1	