



OSVĚDČENÍ o: 1)

COMMUNICATION concerning: 1)



UDĚLENÍ HOMOLOGACE
ROZŠÍŘENÍ HOMOLOGACE
ODMÍTNUTÍ HOMOLOGACE
ODEJMUTÍ HOMOLOGACE
UKONČENÍ VÝROBY

APPROVAL GRANTED
APPROVAL EXTENDED
APPROVAL REFUSED
APPROVAL WITHDRAWN
PRODUCTION DEFINITELY DISCONTINUED

~~typu vozidla/dílu/samostatného technického celku~~ 1) z hlediska Předpisu č. 10
of a ~~type of vehicle/component/separate technical unit~~ 1) with regard to Regulation
No. 10

Homologace č.:
Approval No.: **10R-04 1325**

Rozšíření č.: --
Extension No.:

1. Značka (obchodní název výrobce):
Make (trade name of manufacturer):
2. Typ a obchodní značení:
Type and general commercial description(s): **ELUC2S025A
LED Undercover 2Insert 25'**
3. Způsob označení typu, je-li uvedeno na vozidle/dílu/samostatném technickém celku 1):
Means of identification of type, if marked on the vehicle/component/separate technical unit 1):
**Typový štítek laserový tisk
Laser printed type label**
- 3.1. Umístění označení:
Location of that marking: **Trvanlivě připevněn na krytu výrobku
Durably fixed on housing of appliance**
4. Kategorie vozidla:
Category of vehicle: **Nepoužito
Not applicable**
5. Název a adresa výrobce:
Name and address of manufacturer: **Soundoff Signal
3900 Central Parkway, Hundsonville ,
MI , 49426 , USA**
6. Pro díly a samostatné technické celky umístění a způsob připevnění homologační značky:
In the case of components and separate technical units, location and method of affixing of approval mark: **Trvanlivě připevněn na krytu výrobku
Durably fixed on housing of appliance**



7. Adresa(-y) montážního závodu(-ů): **Soundoff Signal**
Address(es) of assembly plant(s): **3900 Central Parkway, Hundsonvillo ,
MI , 49426 , USA**
8. Případné doplňující informace: ----
Additional information (where applicable): ----
9. Homologační zkušebna: **Elektrotechnický zkušební ústav a.s.,**
Technical service responsible for carrying **Pod lísem 129 , 171 02 Praha 8 Trója,**
out the tests: **Česká republika.**
Electrotechnical Testing Institute
Pod lísem 129 , 171 02 Praha 8 Trója,
Czech Republic
10. Datum zkušebního protokolu: **26.02.2013**
Date of test report:
11. Číslo zkušebního protokolu: **205607-01/01**
No. of test report:
12. Případné poznámky: ----
Remarks (if any):
13. Místo: **Praha**
Place:
14. Datum: **14.03.2013**
Date:
15. Podpis: *v.ř. [Signature]*
Signature: **Dalibor Tatýrek**
16. Seznam informačních dokumentů uložených u schvalovacího orgánu, které lze na vyžádání obdržet je přiložen.
The index to the information package lodged with the approval authority, which may be obtained on request is attached.

17. Nehodící se škrtněte
Strike out what does not apply



Příloha k osvědčení o homologaci
Annex to the Communication concerning approval granted

Seznam podkladů:
List of documents:

1. Protokol o zkoušce č. 205607-01/01
Test report No.205607-01/01
2. Výkres
Drawing
3. Technický popis
Technical description





ELECTROTECHNICAL TESTING INSTITUTE
Pod Lisem 129
171 02 Praha 8 - Troja

No. of pages:21
No. of annexes/No. of an. pages:-/
Ref.:Nov

No. of the Test Report: 205607-01/01

Issued:26.02.2013



TEST REPORT

Name of product: LED Undercover 2 Insert 25'
Type of product: ELUC2S025A
For variants see next page.
Ratings: 12V DC
Serial number: ---
Manufacturer: SoundOff Signal
Central Parkway 3900, Hudsonville MI 49426, U.S.A
Production site: See manufacturer
EZÚ product coding system: 105001
Ordering firm: SoundOff Signal
Central Parkway 3900, Hudsonville MI 49426, U.S.A
Number of tested samples: 1
Samples submitted on: 11.02.2013
Location of testing: EZÚ
Tested from 11.02.2013 **through** 25.02.2013
Other data: Type representative ELUC2S025A was tested.
The product was tested according to: ECE R10.04:2011.

The test results contained in this report refer to the tested items only. The values presented in this report were measured with the accuracy specified in the testing regulations. All measuring instruments used are properly traceable.

This Report shall not be reproduced except as a whole.

Compiled by: *V. Nováková*
V. Nováková

Approved by: *M. Vondra*
M. Vondra
Testing laboratory
technical manager



Test report according to Regulation ECE R10.04:2011

No.205607-01/01

Type: ELUC2S025A

Product description:

Product: LED Undercover 2 Insert 25'

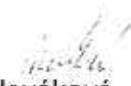
Type: ELUC2S025A

Variants: ELUC2S010A,ELUC2S010B, ELUC2S010D, ELUC2S010E, ELUC2S010F,
ELUC2S010G ELUC2S010H, ELUC2S010J, ELUC2S010K,
ELUC2S010M,ELUC2S010N, ELUC2S010P ELUC2S010R,
ELUC2S010W, ELUC2S025A, ELUC2S025B, ELUC2S025D, ELUC2S025E,
ELUC2S025F, ELUC2S025G, ELUC2S025J, ELUC2S025R, ELUC2S025W,
ELUC2SB10A, ELUC2SB10B, ELUC2SB10D, ELUC2SB10E, ELUC2SB10F,
ELUC2SB10J, ELUC2SB10R, ELUC2SB10W, ELUC2SC10A, ELUC2SC10B,
ELUC2SC10D, ELUC2SC10E, ELUC2SC10F, ELUC2SC10J, ELUC2SC10R,
ELUC2SC10W, ELUC2SW10A, ELUC2SW10B, ELUC2SW10D, ELUC2SW10E,
ELUC2SW10F, ELUC2SW10J, ELUC2SW10R, ELUC2SW10W

According to the declaration from the Applicant, the electrical circuit, layout, used components and internal wiring were identical for all models mentioned above, only with different colors of LED and lengths of cables.

Product installation must be carried out with the rules applicable in competent country.

Tested type: ELUC2S025A

Elaborate by:  Nováková

Date: 25.02.2013

Test report according to Regulation ECE R10.04:2011

No.205607-01/01

Type: ELUC2S025A

Clause		Result												
5.	Markings													
	Approval mark according to paragraph 5.	P												
6	Specifications in configurations other than "RESS charging mode coupled to the power grid"													
6.1.1.1	Vehicle was tested for radiated emissions and for immunity to radiated disturbances.	N												
6.1.1.2.	ESA(s) was tested for radiated and conducted emissions and for immunity to radiated and conducted disturbances.	P												
6.2	Broadband electromagnetic radiation from vehicles.													
6.2.1.	For the method - see annex 4													
6.2.2	Limit for broadband electromagnetic disturbances generated by the vehicle.													
6.2.2.1.	Distance between the antenna and vehicle 10.0 ± 0.2 m													
	<table border="1"> <thead> <tr> <th>Frequency band [MHz]</th> <th>Limit [dBμV/m]</th> <th></th> </tr> </thead> <tbody> <tr> <td>30-75</td> <td>32</td> <td>N</td> </tr> <tr> <td>75-400</td> <td>32-43 increase logarithmically</td> <td>N</td> </tr> <tr> <td>400-1000</td> <td>43</td> <td>N</td> </tr> </tbody> </table>	Frequency band [MHz]	Limit [dB μ V/m]		30-75	32	N	75-400	32-43 increase logarithmically	N	400-1000	43	N	
Frequency band [MHz]	Limit [dB μ V/m]													
30-75	32	N												
75-400	32-43 increase logarithmically	N												
400-1000	43	N												
6.2.2.2.	Distance between the antenna and vehicle 3.0 ± 0.05 m													
	<table border="1"> <thead> <tr> <th>Frequency band [MHz]</th> <th>Limit [dBμV/m]</th> <th></th> </tr> </thead> <tbody> <tr> <td>30-75</td> <td>42</td> <td>N</td> </tr> <tr> <td>75-400</td> <td>42-53 increase logarithmically</td> <td>N</td> </tr> <tr> <td>400-1000</td> <td>53</td> <td>N</td> </tr> </tbody> </table>	Frequency band [MHz]	Limit [dB μ V/m]		30-75	42	N	75-400	42-53 increase logarithmically	N	400-1000	53	N	
Frequency band [MHz]	Limit [dB μ V/m]													
30-75	42	N												
75-400	42-53 increase logarithmically	N												
400-1000	53	N												
6.2.2.3.	The measured values are below the limit	N												
6.3.	Narrow band electromagnetic disturbances generated by vehicles.													
6.3.1.	For the method - see annex 5													
6.3.2.	Limit for narrowband electromagnetic disturbances generated by the vehicle.													
6.3.2.1.	Distance between the antenna and vehicle 10.0 ± 0.2 m													
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Frequency band [MHz]	Limit [dB μ V/m]													
30-75	22	N												
75-400	22-33 increase logarithmically	N												
400-1000	33	N												

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6.3.2.2.	Distance between the antenna and vehicle 3.0 ± 0.05 m		
	Frequency band [MHz]	Limit [dB μ V/m]	
	30-75	32	N
	75-400	32-43 increase logarithmically	N
	400-1000	43	N
6.3.2.3.	The measured values are below the limit		N
6.3.2.4.	Measurement according to annex 5, paragraph 1.3 the value < 20 dB μ V/m in frequency band - 76-108 MHz measured with an average detektor - the vehicle passed the limits without further testing.		N
6.4	Immunity of vehicles to electromagnetic radiation.		
6.4.1.	For the method - see annex 6		
6.4.2.1.	Field strength was 30V/m rms in over 90 % of the range 20 to 2000MHz and min.of 25 V/m rms over the whole range 20 to 2000MHz.		N
6.4.2.2.	The vehicle was complying with immunity requirements during the tests there was no degradation of 'immunity-related functions.		N
6.5.	Broadband electromagnetic disturbances generated by ESAs.		
6.5.1.	For the method - see annex 7		
6.5.2.	Limit for broadband electromagnetic disturbances generated by the ESAs.		
6.5.2.1.	Frequency band [MHz]	Limit [dB μ V/m]	
	30-75	62-52 decrease logarithmically	P
	75-400	52-63 increase logarithmically	P
	400-1000	63	P
6.5.2.2.	The measured values are below the limit		P
6.6.	Narrowband electromagnetic disturbances generated by ESAs.		
6.6.1.	For the method - see annex 8		
6.6.2.	Limit for narrowband electromagnetic disturbances generated by ESAs.		
6.6.2.1.	frequency band [MHz]	Limit [dB μ V/m]	
	30-75	52-42 decrease logarithmically	P
	75-400	42-53 increase logarithmically	P
	400-1000	53	P
6.6.2.2.	The measured values are below the limit		P

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6.7.	Immunity of ESAs to electromagnetic radiation.		
6.7.1.	For the method - see annex 9		
6.7.2.1.	Reference levels was (90% in 20-2000MHz freq. band)		N
	60 V/m for the 150 mm stripline testing method		
	15V/m for the 800 mm stripline testing method		N
	75 V/m for the TEM cell testing method		N
	60 mA for the bulk current injection		P
	30 V/m for the free field test method		P
	Reference level was (in whole 20-2000MHz freq. band)		N
	50 V/m for the 150 mm stripline testing method		
	12,5V/m for the 800 mm stripline testing method		N
	62,5 V/m for the TEM cell testing method		N
	50 mA for the bulk current injection		P
	25 V/m for the free field test method		P
6.7.2.2.	The vehicle was complying with immunity requirements during the tests, there was no degradation of 'immunity-related functions' generated by ESAs		P
6.8.	Immunity to transient disturbances conducted along supply lines		
6.8.1.	Method of testing by the method(s) according to ISO 7637-1, -2		
	For the results see next pages.		P
6.9.	Emission of conducted disturbances		P
6.9.1.	The emission of ESA was tested by the method(s) according to ISO 7637-1, -2		
	Polarity of pulse amplitude	Maximum allowed pulse amplitude for vehicles with 12 V systems	
	Positive	+ 75	P
	Negative	- 100	P
	Polarity of pulse amplitude	Maximum allowed pulse amplitude for vehicles with 24 V systems	
	Positive	+ 150	N
	Negative	- 450	N
	6.10	EXCEPTIONS	
6.10.1.	Vehicle or electrical/electronic system or ESA does not include an electronic oscillator with an operating frequency greater than 9 kHz, it in compliance with paragraph 6.3.2 or 6.6.2 f and with Annexes 5 and 8.		N
6.10.2.	Vehicle does not have electrical/electronic systems with immunity-related functions' so, need not to be tested for immunity to radiated disturbances and shall be deemed to comply with paragraph 6.4 and with Annex 6 of this Directive.		N

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Type: ELUC2S025A

6.10.3.	ESAs with no immunity-related functions need not to be tested for immunity to radiated disturbances and shall be deemed to comply with paragraph 6.7 and with Annex 9 to this Directive.	N
6.10.4.	Electrostatic discharge No type approval test for electrostatic discharge is necessary	N
6.10.5.	ESAs that are not switched, contain no switches or do not include inductive loads need not be to be tested for conducted emission and shall be deemed to comply with paragraph 6.9 of this Annex.	N
6.10.6.	The loss of function of receivers during the immunity test, when the test signal is within the receiver bandwidth (RF exclusion band) passed the criteria.	N
6.10.7.	RF transmitters were tested in the transmit mode. Tested according to this article.	N
7.	<i>Additional specifications in the configuration "RESS charging mode coupled to the power grid"</i>	N

Result: P- Pass F- Fail N -not applicable

Note: Type representative ELUC2S025A was tested.

Total evaluation: Tested sample **LED Undercover 2 Insert 25'** type **ELUC2S025A** fulfilled all requirements of ECE R10.04:2011.

Measured by: M.Vondra 

Date: 25.02.2013

cl. 6.5, 6.6 Measurement of interfering radiation in the 30-1000 MHz Band

Product: LED Undercover 2 Insert 25'
Type : ELUC2S025A

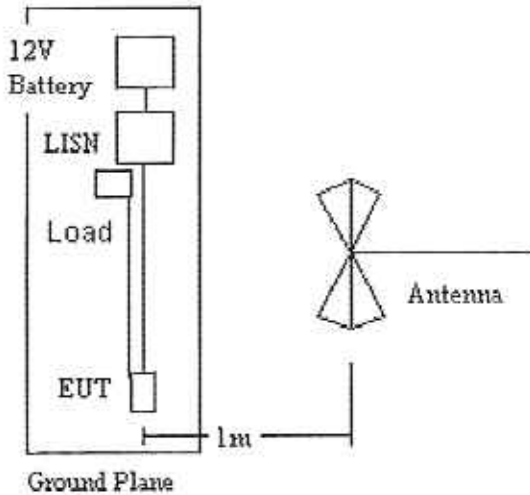
Conditions during measurement: Clause 6.5 and 6.6 of ECE R10.04
Test mode: in operation

Measurement uncertainty: 4 dB
Temperature: 22°C **Rel. Humidity:** 45%

Detector: Peak for pre-scan (120 kHz resolution bandwidth)
Quasi-Peak for broadband emissions(120 kHz resolution bandwidth)
Average for narrowband emissions (9kHz resolution bandwidth)

Mounting jig, power supply, load: ---

Measuring arrangement: ECE R10.04 annex 7, 8.



Note: ---

Test Result: Pass

Measured by: V. Nováková

Date: 11.02.2013

Measured at: EZÚ

Test report according to Regulation ECE R10.04:2011

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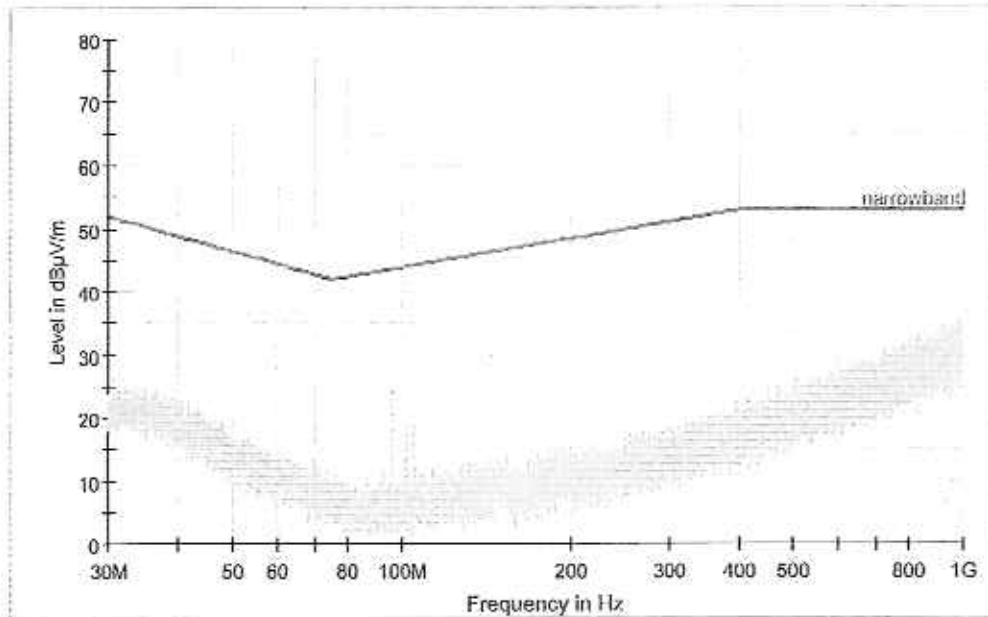
Type: ELUC2S025A

Product: LED Undercover 2 Insert 25'

Type : ELUC2S025A

HORIZONTAL

ECE10N



Note: Narrowband, in operation, 13,5V DC

Test result: Pass

Measured by: V. Novakova

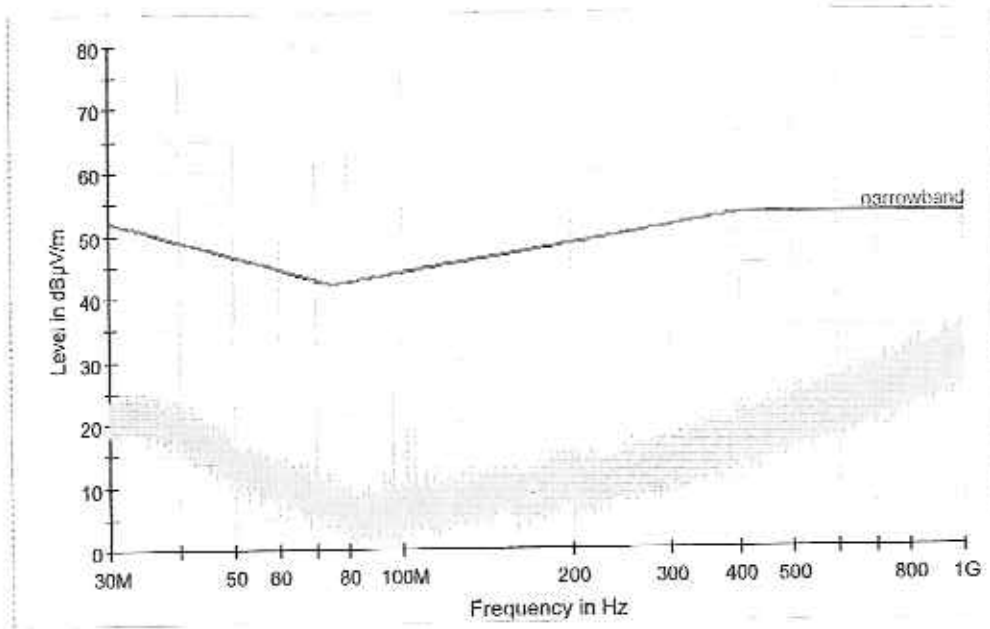
Date: 11.02.2013

Measured at: EZÚ

Product: LED Undercover 2 Insert 25'
Type: ELUC2S025A

VERTICAL

ECE10N



Note: Narrowband, in operation, 13,5V DC

Test result: Pass

Measured by: V. Novakova

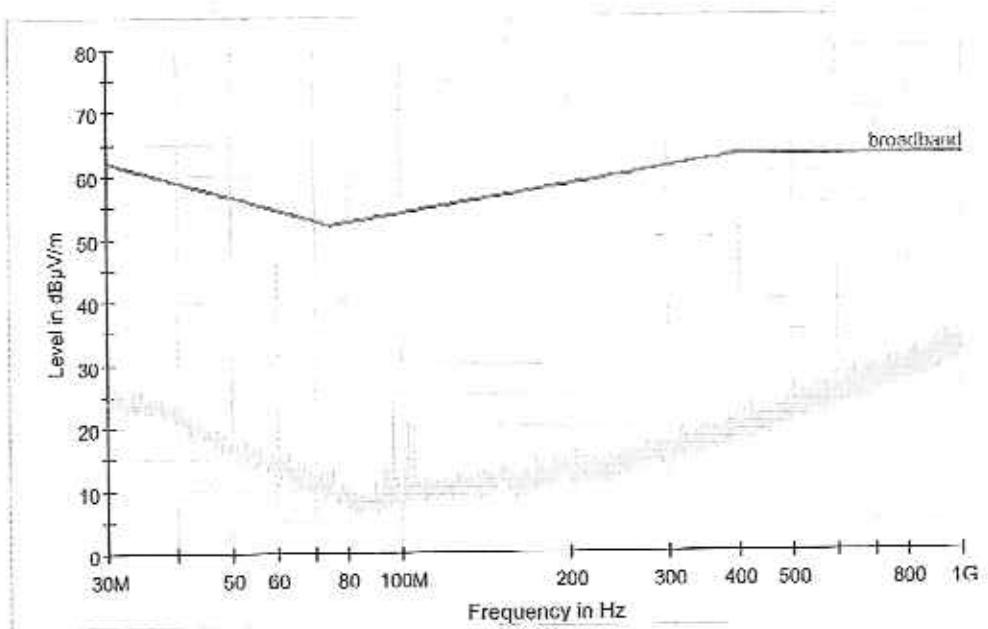
Date: 11.02.2013

Measured at: EZÜ

Product: LED Undercover 2 Insert 25'
Type: ELUC2S025A

VERTICAL

ECE10B



Note: Broadband, in operation, 13,5V DC

Test result: Pass

Measured by: *Novakova*
V. Novakova

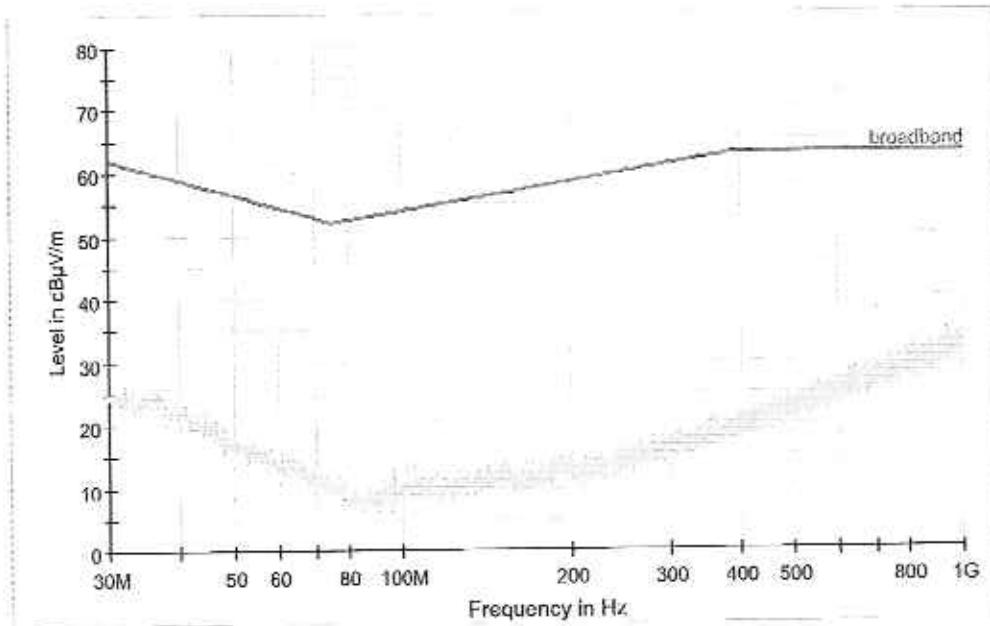
Date: 11.02.2013

Measured at: EZU

Product: LED Undercover 2 Insert 25'
Type: ELUC2S025A

HORIZONTAL

ECE10B



Note: Broadband, in operation, 13,5V DC

Test result: Pass

Measured by: V. Novakova

Date: 11.02.2013

Measured at: EZÚ

Test report according to Regulation ECE R10.04:2011

No.205607-01/01

Type: ELUC2S025A

6.7. Immunity of ESAs to electromagnetic radiation.

Product: LED Undercover 2 Insert 25'

Type: ELUC2S025A

FREE FIELD TEST

TEST SPECIFICATION

Basic Standard	ISO 11452-2:2004
Frequency Range	80~2000MHz
Immunity Level	30V/m
Modulation	(a) AM (amplitude modulation), with 1 kHz modulation and 80 per cent modulation depth in the 80 - 800 MHz frequency range; (b) PM (pulse modulation), t on 577 μ s, period 4,600 μ s in the 800 - 2,000 MHz frequency range.

Test results

Frequency Range	Performance under test	Result
400~2000MHz	A	PASS

BULK CURRENT INJECTION (BCI)

TEST SPECIFICATION

Basic Standard	ISO 11452-4:2005
Frequency Range	20 ~ 400MHz
Immunity Level	60mA
Modulation	1kHz Sine Wave, 80%, AM Modulation

Test results

Frequency Range	Performance under test	Result
20~400MHz	A	PASS

Note: ---

Test result: Pass

Measured by: M.Vondra

Date: 22.02.2013

Measured at: EZÚ

cl.6.8 Immunity test of ESA representative of according to ISO 7637-1, -2.

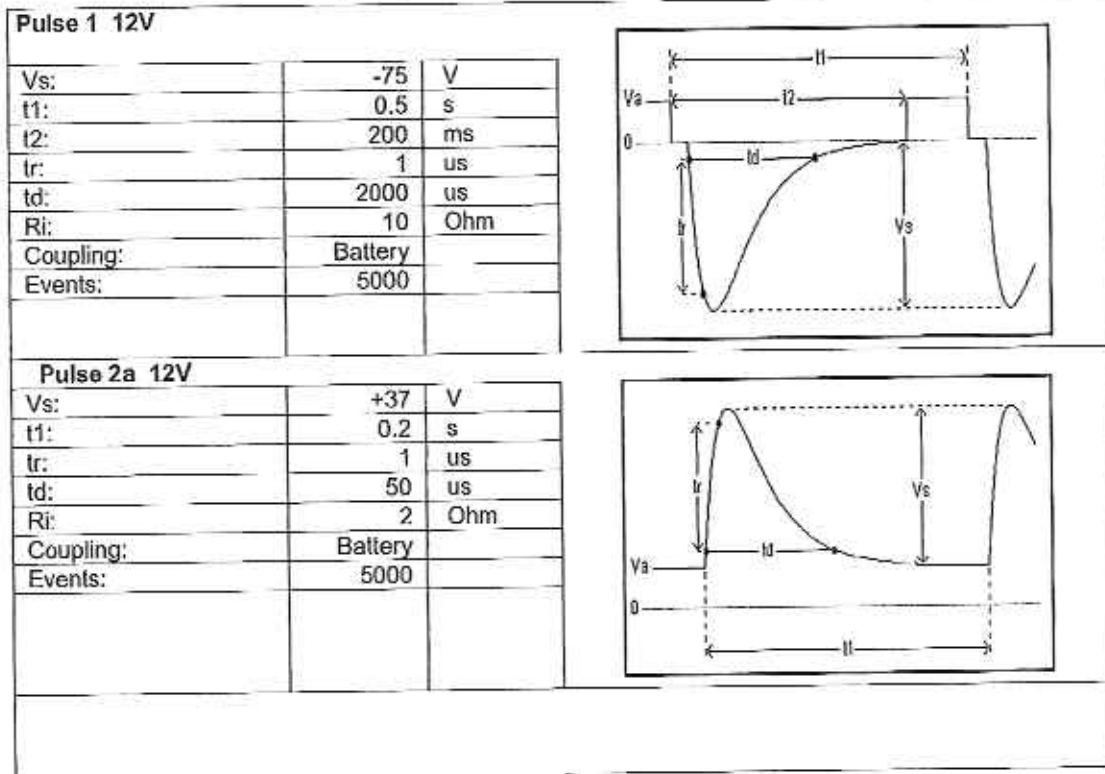
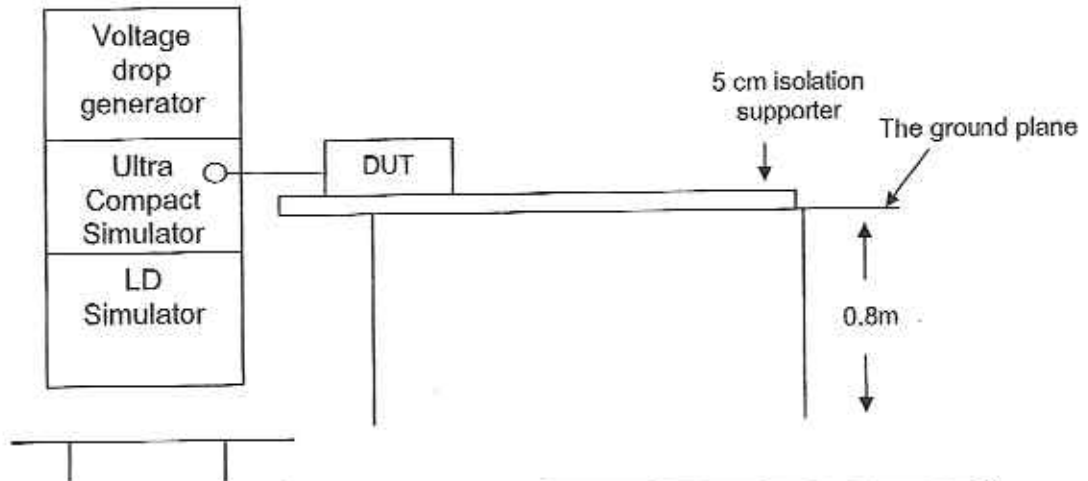
Product: LED Undercover 2 Insert 25'

Type : ELUC2S025A

Conditions during measurement: Clause 6.8 of ECE R10.04, & ISO 7637-1,-2

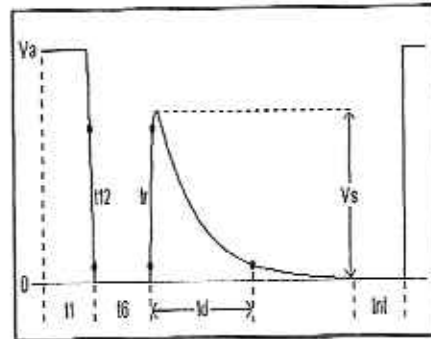
Test mode: in operation

TEST SETUP



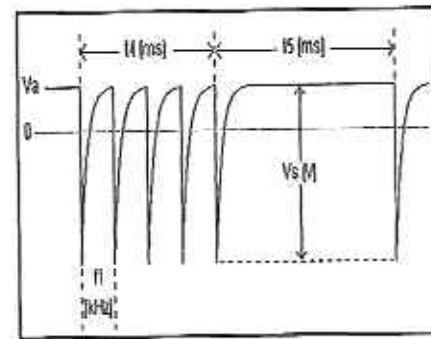
Pulse 2b 12V

Vs:	10.0	V
t1:	1.0	s
t6:	1	ms
td:	200	ms
Int:	1.0	s
Ri:	0.05	Ohm
t12:	1	ms
tr:	1	ms
Events:	10	



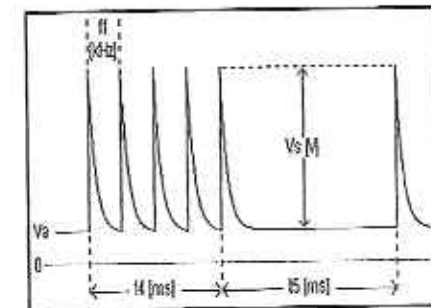
Pulse 3a 12V

Vs:	-112	V
f1:	10	kHz
t4:	10	ms
t5:	90	ms
tr:	5	ns
td:	100	ns
Ri:	50	Ohm
Coupling:	Battery	
Test duration:	1	h



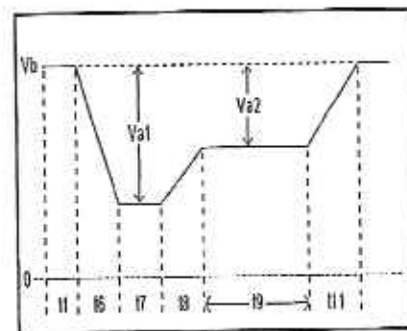
Pulse 3b 12V

Vs:	+75	V
f1:	10	kHz
t4:	10	ms
t5:	90	ms
tr:	5	ns
td:	100	ns
Ri:	50	Ohm
Coupling:	Battery	
Test duration:	1	h



Pulse 4 12V

Va1:	-6.0	V
Va2:	-2.5	V
t1:	1.0	s
t6:	5	ms
t7:	15	ms
t8:	50	ms
t9:	0.5	s
t11:	5	ms
Events:	1	



Test report according to Regulation ECE R10.04:2011

No.205607-01/01

Type: ELUC2S025A

Test Results:

Test Pulse Number	Immunity Test Level for 12V (min. voltage)	Performance Criterion required	Performance under test
1	III (-75)	C	B
2 a	III (+37)	B	A
2 b	III (+10)	C	B
3 a	III (-112)	A	A
3 b	III (+75)	A	A
4	III (-6)	B	B

A: No Loss of Function.

B: EUT is blinking and stopped working for a short time.
It recovered automatically after test.

Note: ---

Test result: Pass

Measured by: M. Vondra

Date: 19.02.2013

Measured at: EZÚ

cl.6.9 Emission of conducted disturbances

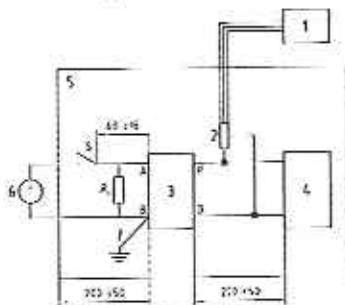
Product: LED Undercover 2 Insert 25'
Type : ELUC2S025A

Test mode: in operation

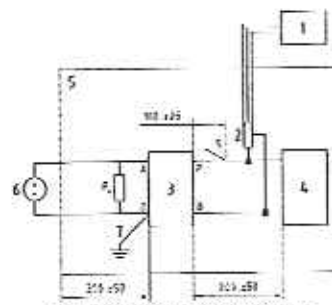
Table 2: Maximum allowed pulse amplitude

Polarity of pulse amplitude	Maximum allowed pulse amplitude for	
	vehicles with 12 V systems	vehicles with 24 V systems
Positive	+ 75	+ 150
Negative	- 100	- 450

Test Setups:



a) Slow pulses (in the second range or slower)



b) Fast pulses (should be read in microsecond range)

Key

- 1 oscilloscope or equivalent
- 2 voltage probe
- 3 artificial network
- 4 DUT (source of transient)

- 5 ground plane
- 6 power supply
- 7 Ground connection; length = 100 mm

12V systems:			
Polarity of pulse amplitude	Maximum allowed pulse amplitude(V)	Type of pulse	Observation result (V)
Positive	+75	Slow	10
		Fast	12
Negative	-100	Slow	-13
		Fast	-11

Test result: Pass

Measured by: M.Vondra

Date: 25.02.2013

Measured at: EZÚ

Test report according to Regulation ECE R10.04:2011

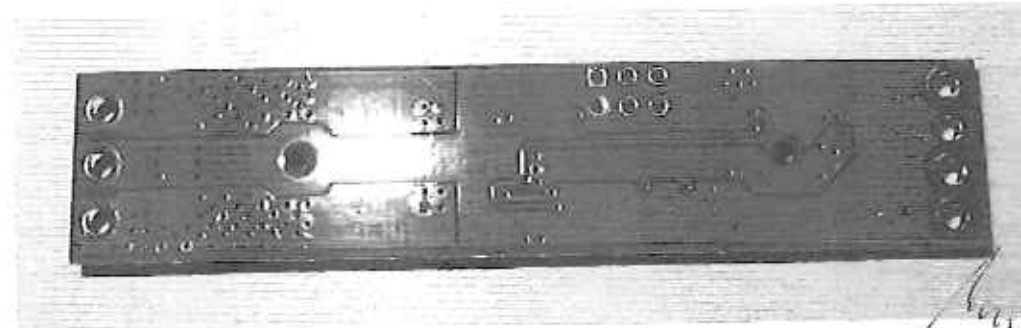
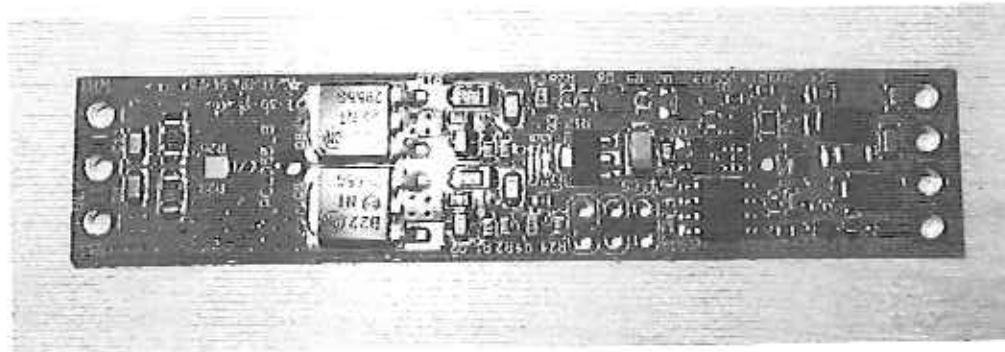
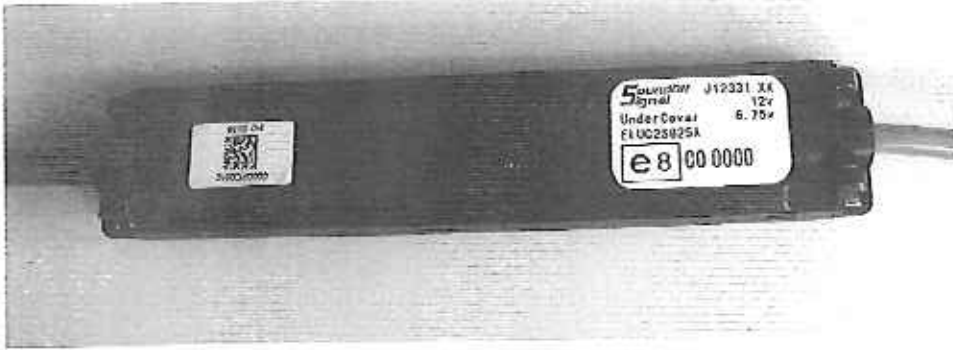
No.205607-01/01

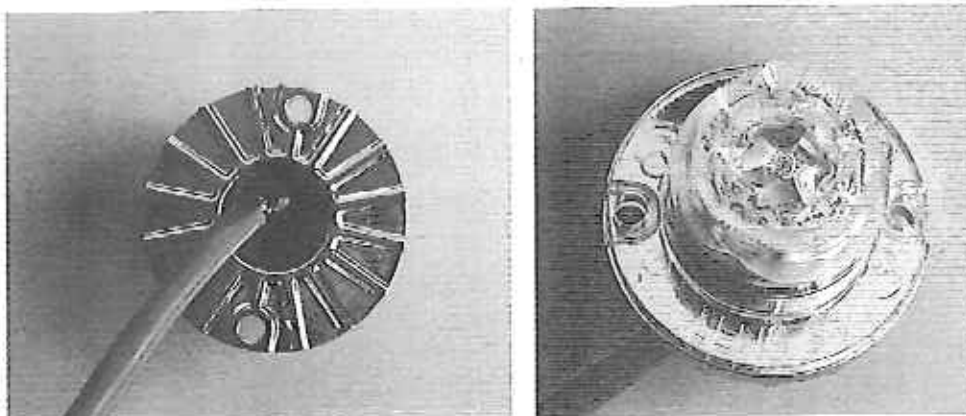
Type: ELUC2S025A

Used test equipments

Description	Type	Evidence No.	Next calibration
<input checked="" type="checkbox"/> Test receiver RaS	ESCI	110213	10.2014
<input checked="" type="checkbox"/> Antenna Frankonia	BTA-M	00-6321	09.2014
<input type="checkbox"/> Antenna	HF- 907	00110177	07.2013
<input checked="" type="checkbox"/> Isotropic field mon DARE	CTR1001A	110117	11.2013
<input checked="" type="checkbox"/> Isotropic field probe DARE	05D0000ISN024	110117	11.2013
<input checked="" type="checkbox"/> Amplifier BONN ELEKTRONIK	BLWA0810-100	96-5871	
<input checked="" type="checkbox"/> Amplifier PRANA	AP32LT225	110145	
<input checked="" type="checkbox"/> Amplifier MILMEGA	AS0822-100	110009	
<input checked="" type="checkbox"/> Amplifier MILMEGA	AS0204-125	110144	
<input checked="" type="checkbox"/> Signal. generator RaS	SMT03	96-5874	
<input checked="" type="checkbox"/> Generator RaS	SMF 100A	110 117	
<input checked="" type="checkbox"/> Generator EM TEST	UCS 200-M	110 158	04.2014
<input checked="" type="checkbox"/> Generator EM TEST	VDS 200	110 157	04.2014
<input type="checkbox"/> Signal. generator PHILIPS	PM5390	88-5818	
<input checked="" type="checkbox"/> Heterodyne Analyzer	BK2010	4904	
<input type="checkbox"/> MPEG2 Measurement generator	DVG	110120	
<input type="checkbox"/> TV Test Transmitter	SFL-T	110121	
<input checked="" type="checkbox"/> Current Probe	F- 65	110 166/C	
<input checked="" type="checkbox"/> Current Probe	F -140	110 166/3	
<input type="checkbox"/> Coupling/dec. EM TEST	CDNxxx		
<input type="checkbox"/> Coupling. SHAFNER	Txxx		
<input type="checkbox"/> Current probe	CT - 5		
<input type="checkbox"/> Current probe	AM503	79-4221	
<input type="checkbox"/> Ferrite clamp 1-1000 MHz	Z-24	10003	
<input checked="" type="checkbox"/> Anechoic chamber EZU			
Cables:			
<input type="checkbox"/> K7a , K9a ,K1, ESH3-Z2			
<input checked="" type="checkbox"/> K23			
<input checked="" type="checkbox"/> K24			
EZU equipments:			
<input checked="" type="checkbox"/> Artificial mains EZU (ECE10)	PR-04	550837	
<input checked="" type="checkbox"/> Voltage power supply	0-60V	550960	
<input checked="" type="checkbox"/> Strip line		97-5957	
<input checked="" type="checkbox"/> Measuring scale		400010	10.2018
<input checked="" type="checkbox"/> Accumulator	12V/ 140 Ah		
<input checked="" type="checkbox"/> Multimeter	MX24	21624	08.2013
<input checked="" type="checkbox"/> Hygrometer	Testo 625	551001	06.2013

Photos





SAMPLES OF LABEL

SoundOff Signal J12318 XX
12v
UnderCover 6.75w
ELUC2S010A
e8 00 0000

SoundOff Signal J12318 XX
12v
UnderCover 6.75w
ELUC2S025E
e8 00 0000

SoundOff Signal J12318 XX
12v
UnderCover 6.75w
ELUC25B10A
e8 00 0000

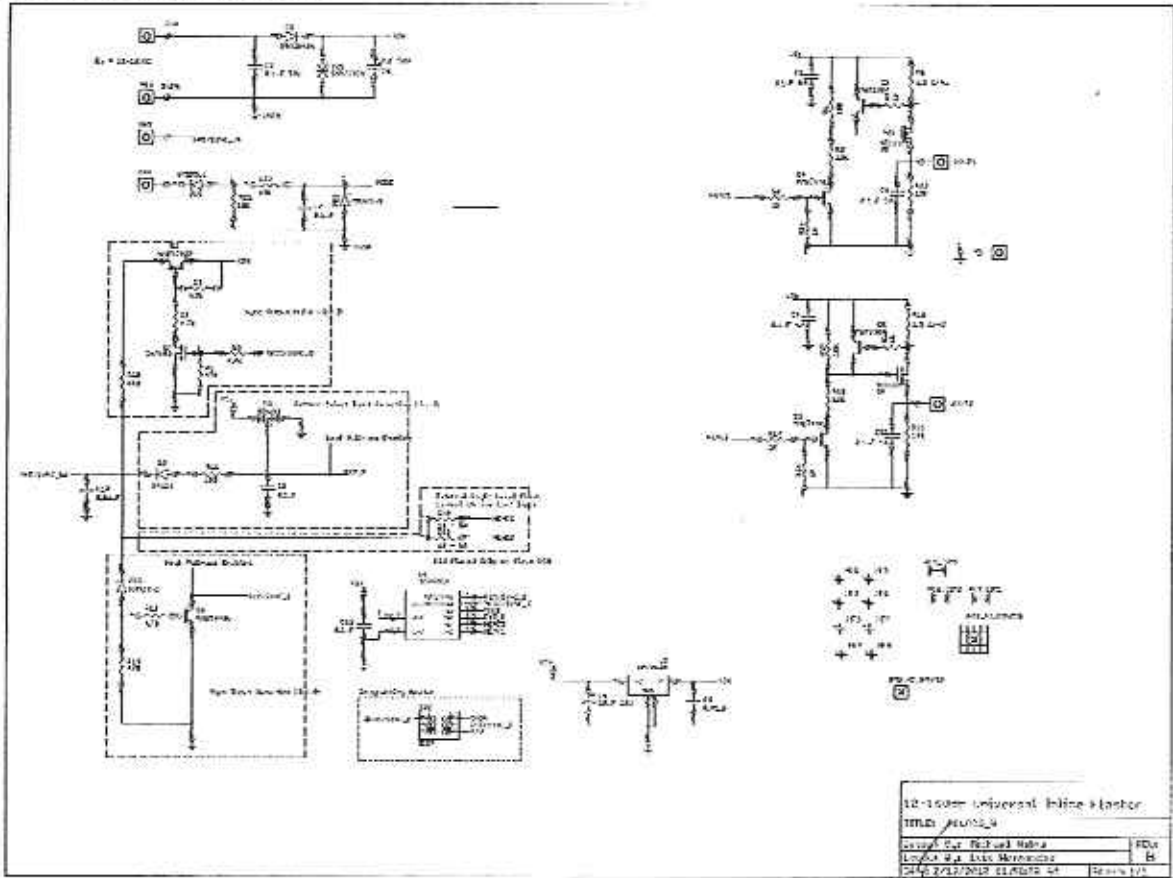
SoundOff Signal J12318 XX
12v
UnderCover 6.75w
ELUC25C10J
e8 00 0000

SoundOff Signal J12318 XX
12v
UnderCover 6.75w
ELUC2SW10F
e8 00 0000

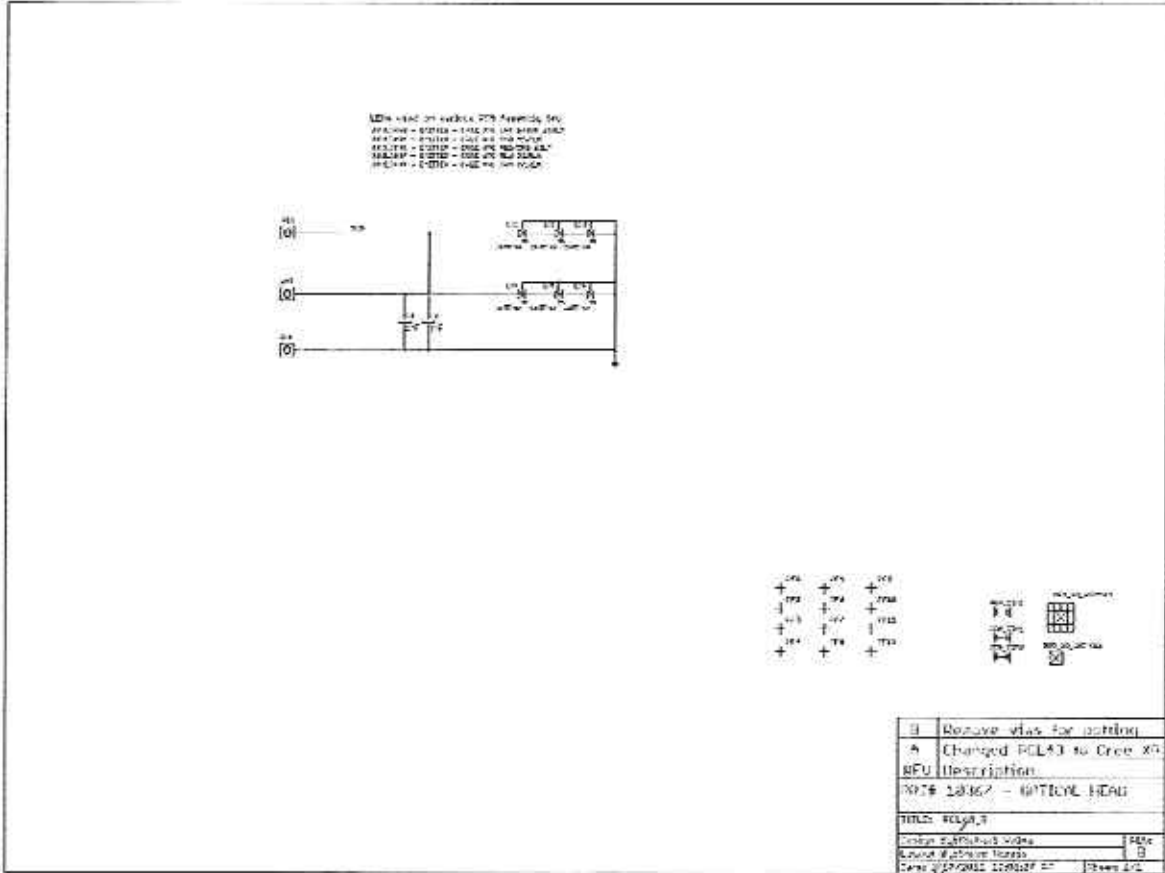
Etc.

Wiring diagrams

Block diagram / scheme



Block diagram / scheme



End of Test Report No. 205607-01/01