Test Report issued under the responsibility of:

TEST REPORT
IEC 62560
Self-Ballasted LED-Lamp
for general lighting services by voltage > 50V Safety specifications

Report Number. .....:	GZES190902450102
Date of issue .....:	2019-10-29, **Amendment No. 1: 2021-01-20**
Total number of pages	10
Name of Testing Laboratory preparing the Report.....:	SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
Applicant's name.....:	Foshan Electrical and Lighting Co., Ltd.
Address .....:	64 North Fenjiang Road, Foshan, Guangdong, China.
Test specification:	
Standard.....:	IEC 62560:2011, AMD1:2015
Test procedure .....:	SGS-CSTC / EPCS + CE_LVD
Non-standard test method.....:	N/A
Test Report Form No.....:	IEC62560C
Test Report Form(s) Originator.....:	DEKRA Certification B.V.
Master TRF.....:	Dated 2018-12-21

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Test item description .....:	Self-ballasted LED Lamp (LED Lamps)		
Trade Mark .....:	**FSL**		
Manufacturer.....:	Same as applicant		
Model/Type reference.....:	See model list in page 6		
Ratings .....:	220 V – 240 V; 50 Hz; other detail sees model list in page 6		
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):			
☒ **CB Testing Laboratory:**	SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch		
Testing location/ address.....:	198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China		
Tested by (name, function, signature) .....:	Ivan Zhang / Project Engineer	Ivan Zhang	
Approved by (name, function, signature)...:	Mon Liang / Reviewer	mon liang	
☐ **Testing procedure: CTF Stage 1:**	N/A		
Testing location/ address.....:			
Tested by (name, function, signature) .....:			
Approved by (name, function, signature)...:			
☐ **Testing procedure: CTF Stage 2:**	N/A		
Testing location/ address.....:			
Tested by (name + signature) .....:			
Witnessed by (name, function, signature)..:			
Approved by (name, function, signature)...:			
☐ **Testing procedure: CTF Stage 3:**	N/A		
☐ **Testing procedure: CTF Stage 4:**	N/A		
Testing location/ address.....:			
Tested by (name, function, signature) .....:			
Witnessed by (name, function, signature)..:			
Approved by (name, function, signature)...:			
Supervised by (name, function, signature) :			

List of Attachments (including a total number of pages in each attachment):

Attachment 1: Australia / New Zealand National Differences (total 7 pages);

Attachment 2: EU Group differences (total 1 page);

Attachment 3: EN62493: 2015 (total 1 page);

Attachment 4: Photo documentation (total 2 pages).

This Amendment Report, Ref. No. GZES190902450102 to the original Report Ref. No. GZES190902450101 contains 8 Report Pages and four Attachments. Total 19 pages.

Summary of testing:

1. The submitted samples are in compliance with the standard EN 62560:2012+A1:2015+A11: 2019 and AS/NZS 62560: 2017+A1: 2019.
2. The submitted appliances were found to be in compliance with the standards EN 62493: 2015, see test report see GZEM190901607909 & GZEM190901608008.

Tests performed (name of test and test clause):	**Testing location:**
Clause 13 Fault conditions Clause 15 Abnormal operation	198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China

Summary of compliance with National Differences (List of countries addressed):

EU, AU, NZ Group differences were considered.

☒ The product fulfils the requirements of AS/NZS 62560: 2017+A1: 2019 and EN 62560: 2012 + A1: 2015+ A11: 2019.

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Representative

FSL®

A60-9-65/A12W/14/D
9W I:75 mA 6500K
220-240V 50Hz



Print on enclosure

Remark:

1. The height of "" symbol is not less than 7 mm;
2. The height of CE symbol is not less than 5 mm;
3. According to the standard, warning and text required by the standard should be written in the official language(s) of the country in which the appliance is to be sold. The applicant should ensure that the samples in future production fulfill the requirement;
4. As declared by the applicant, the importer **(and manufacturer, if it is different)**'s name, registered trade name or registered trademark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities;
5. Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.
6. Other models have similar label as above, just model no., wattage and rated current are different.

Test item particulars.....:	
Classification of installation and use .....:	—
Supply Connection .....:	E27, B22d Lamp cap
Mass of the equipment...… .....:	Max. 0,09 kg (series 3)
Possible test case verdicts:	
- test case does not apply to the test object .....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement .....:	F (Fail)
Testing .....:	
Date of receipt of test item .....:	**2020-12-11**
Date (s) of performance of tests .....:	**2020-12-11 to 2020-12-17**

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

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Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....:	☐ **Yes** ☒ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) .....:	Same as applicant

General product information and other remarks:

1. Self-ballasted LED lamp.
2. The LED lamps have non-SELV drivers, integrated with E27, B22d lamp cap and they cannot be used in the dimmable circuit. For dry location use only.
3. They can be dimmed by cell phone APP

Model list:

Model	Power	Input current	Lamp cap	Series	Blue Light Hazard
A60-9-XX/A12W/14/D	9 W	75 mA	E27	Series 1	RG0
A60-9-XX/A13W/14/D	9 W	75 mA	B22d		
A60-9-TW/A12W/14/D	9 W	75 mA	E27		
A60-9-TW/A13W/14/D	9 W	75 mA	B22d		
A60-12-XX/A12W/14/D	12 W	95 mA	E27		
A60-12-XX/A13W/14/D	12 W	95 mA	B22d		
A60-12-TW/A12W/14/D	12 W	95 mA	E27		
A60-12-TW/A13W/14/D	12 W	95 mA	B22d		
XX = “27-65”, means color temperature, 27 means 2700 K, 65 means 6500 K. Series 1 have the same construction, only different in the lamp cap and power					
A60-9-RGBW/A12W/14/DJ	9 W	75 mA	E27	Series 2	RG0
A60-9-RGBW/A13W/14/DJ	9 W	75 mA	B22d		
A60-9-RGBTW/A12W/14/DJ	9 W	75 mA	E27		
A60-9-RGBTW/A13W/14/DJ	9 W	75 mA	B22d		
A60-12-RGBW/A12W/14/DJ	12 W	95 mA	E27		
A60-12-RGBW/A13W/14/DJ	12 W	95 mA	B22d		
A60-12-RGBTW/A12W/14/DJ	12 W	95 mA	E27		
A60-12-RGBTW/A13W/14/DJ	12 W	95 mA	B22d		
Series 2 have the same construction, only different in the lamp cap and power					
A70-15-RGBW/A12W/14/DZ	15 W	110 mA	E27	Series 3	RG0
A70-15-RGBW/A13W/14/DZ	15 W	110 mA	B22d		
Series 3 have the same construction, only different in the lamp cap					

Remark:
1. All models can dimmer by cell phone APP;
2. where the model name includes “TW” mean the lamp can controller the colour temperature by cell phone APP
3. where the model name includes “RGB” mean the lamp can controller the colour by cell phone APP

Original EPCS Test Report date 2019-10-29, Amendment No. 1: 2021-01-20.
Amendment 1 Report:

The original Test Report Ref. No. GZES190902450101, dated 2020-08-14 was modified on 2021-01-20 to include the following changes:

- **Added alternative Intelligent module for A60-12-TW/A12W/14/D and A60-12-TW/A13W/14/D in Series 1 and added alternative Intelligent module forA60-9-RGBTW/A12W/14/DJ, A60-9-RGBTW/A12W/14/DJ, A60-12-RGBTW/A12/DJ and A60-12-RGBTW/A13/DJ in Series 2. See photo documentation.**
- **Updated the standard from AS/NZS 62560: 2017 to AS/NZS 62560: 2017 + A1: 2019, from EN 62560: 2012 + A1: 2015. To EN 62560: 2012 + A1: 2015 + A11: 2019.**

After review, Added EN 62493: 2015 tests, the fault condition test, abnormal test and construction check.

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

13	**FAULT CONDITIONS**		**P**
13.2	Fault conditions: where diagram indicates fault condition impairs safety, electronic components have been short-circuited or disconnected	(see appended table)	P
13.3	When operated under fault conditions the lamp		P
	- does not emit flames or molten material		P
	- does not produce flammable gases or smoke		P
	- live parts not accessible		P
	After the tests the insulation resistance with d.c. 1000 V complies with requirements of Cl. 8.1.....:	20 MΩ	P

15	**ABNORMAL OPERATION**		**P**
	Non-dimmable self-ballasted lamps are tested on a dimmer or an electronic switch according the test circuit shown in Figure 8		P
	Operate the lamp for 8 h at most onerous dimming level		P
	When operated under abnormal operation the lamp		P
	- does not catch fire		P
	- does not produce flammable gases		P
	- live parts not accessible		P

13	**TABLE: tests of fault conditions (A60-12-TW/A12W/14/D in series 1)**	**P**
Part	Simulated fault	Hazard
LED	Shorted circuit; LED cut off, Recoverable when removed the fault	NO
U1 (On LED PCB)	Shorted circuit; No work, Recoverable when removed the fault	NO
C4	Shorted circuit; No work, Recoverable when removed the fault	NO
CE4	Shorted circuit; Circuit damaged, Non-recoverable when removed the fault	NO
CE3	Shorted circuit; No work, Recoverable when removed the fault	NO
D3	Shorted circuit; Circuit damaged, Non-recoverable when removed the fault	NO
U1	Shorted circuit; No work, Recoverable when removed the fault	NO
DB1	Shorted circuit; Fuse Resistor broken, Non-recoverable when removed the fault	NO
DB1	Open circuit; No work, Recoverable when removed the fault	NO

IEC 62560			
Clause	Requirement + Test	Result - Remark	Verdict

13	**TABLE: tests of fault conditions (A60-9-RGBTW/A12W/14/DJ in series 2)**	**P**
Part	Simulated fault	Hazard
LED	Shorted circuit; LED cut off, Recoverable when removed the fault	NO
U1 (On LED PCB)	Shorted circuit; No work, Recoverable when removed the fault	NO
C4	Shorted circuit; Normally work, Recoverable when removed the fault	NO
CE2	Shorted circuit; Fuse Resistor broken, Non-recoverable when removed the fault	NO
CE1	Shorted circuit; Fuse Resistor broken, Non-recoverable when removed the fault	NO
D1	Shorted circuit; Power increase, Recoverable when removed the fault	NO
D2	Shorted circuit; Power increase, Recoverable when removed the fault	NO
U1	Shorted circuit; No work, Recoverable when removed the fault	NO
DB1	Shorted circuit; Fuse Resistor broken, Non-recoverable when removed the fault	NO
DB1	Open circuit; No work, Recoverable when removed the fault	NO

--- End of main test report ---

Attachment 1: Differences for AS/NZS 62560: 2017 + A1: 2019			
Clause	Requirement + Test	Result - Remark	Verdict

	National Differences		
Appendix ZZ	VARIATIONS TO **Error! No text of specified style in document.**FOR APPLICATION IN AUSTRALIA AND NEW ZEALAND		P
ZZ1	Variations to IEC 62560:2011+AMD1:2015 CSV form the Australian/New Zealand variations for the purposes of the IECEE Scheme for recognition of testing to Standards for safety of electrical equipment (the CB Scheme).		P
ZZ2	VARIATIONS		P
1	Deletion *Delete* first dash item		—
2	Addition *Add* the following normative references: • AS/NZS 3117, *Approval and test specification—Bayonet lampholders* • AS/NZS 3140, *Approval and test specification—Edison screw lampholders* • AS/NZS 60238, *Edison screw lampholders (IEC 60238, Ed. 8.2 (2011) MOD)* • AS/NZS 60598.1, *Luminaires—Part 1: General requirements and tests (IEC 60598-1, Ed. 7.0 (2008) MOD)* • AS/NZS 60695.2.10, *Glowing/hot wire based test methods—Part 2.10:* • *Glow-wire apparatus and common test procedure (IEC 60695-2-10:2000, IDT)* • AS/NZS 60695.11.5, *Fire hazard testing—Part 11.5: Needle-flame test method—Apparatus, confirmatory test arrangement and guidance (IEC 60695-11-5 Ed 1.0, IDT)* • AS/NZS 60695.11.10, *Fire hazard testing—Part 11.10: Test flames—50 W horizontal and vertical flame test methods (IEC 60695-11-10:1999, IDT)* • AS/NZS 61184, *Bayonet lampholders (IEC 61184, Ed. 3.1 (2011) MOD)*		P
3.1	*Variation* *Delete* Clause and *replace* with the following: **self-ballasted LED-lamp**		P

Attachment 1: Differences for AS/NZS 62560: 2017 + A1: 2019			
Clause	Requirement + Test	Result - Remark	Verdict
	unit which is provided with a lamp cap for means of connection to supply and incorporates a light emitting semiconductor light source and any additional elements, necessary for stable operation of the light source, that are integral components of the device. NOTERequirements for lamp caps are given in IEC 60061-1		
4.1.1	Addition *Add* the following new Clause: **4.1.1 Test voltage** In Australia, equipment other than class III equipment that is intended for connection to the supply mains and is not marked with: – a rated voltage of at least 240 V for single phase equipment or a rated voltage of at least 415 V for three phase equipment; or – a rated voltage range that includes 240 V for single phase equipment and 415 V for three phase equipment, the rated voltage is equal to 240 V for single phase equipment and 415 V for three phase equipment, and the upper limit of the voltage range is equal to 240 V for single phase equipment and 415 V for three phase equipment.		P
4.2	Variation *Delete* existing paragraph and *replace* with the following: **4.2**Self-ballasted LED-lamps shall be non-repairable, factory sealed units that cannot be dismantled without causing permanent damage		P
6.1	Addition *Insert* the following text after the second paragraph: *Alternatively for Edison screw lampholders,*		P

Attachment 1: Differences for AS/NZS 62560: 2017 + A1: 2019			
Clause	Requirement + Test	Result - Remark	Verdict

	compliance with Clause 6.1 is checked by measurement and by inserting the lamp cap into a lampholder complying with AS/NZS 3140 or AS/NZS 60238 to ensure compatibility. *Alternatively for bayonet cap lampholders, compliance with Clauses 5.1 and 5.2 is checked by measurement and by inserting the lamp cap into a lampholder complying with AS/NZS 3117 or AS/NZS 61184 to ensure compatibility.*		
Table 1	*Add* the following 5 new entries to the Table:		N/A

Lamp cap	Cap sheet no. from IEC 60061-1	Cap dimension to be checked by the gauge	Gauge sheet no. from IEC 60061-3
E39	7004-24A	Max. dimensions of the screw thread Min. major diameter of the screw thread Contact making	7006-24B 7006-24C 7006-24A
E40	7004-24	Max. dimensions of the screw thread Min. major diameter of the screw thread Protection against accidental contact Contact making	7006-23 7006-24 7006-53 7006-52
R7s	7004-92	Go for pairs of holders Protection against accidental contact for pairs of holders	7006-62 7006-62B-1
RX7s	7004-92A	Go for pairs of holders RX7s protection against accidental contact for pairs of holders	7006-62A-2 7006-62C-1
G9	7004-129	Go gauge for lamp holder Minimum retention force Contact making	7006-129B 7006-129C 7006-129D

Attachment 1: Differences for AS/NZS 62560: 2017 + A1: 2019			
Clause	Requirement + Test	Result - Remark	Verdict
7	Variation 1. *Delete* fourth paragraph and *replace* with the following: *Compliance is checked by measurement or with the aid of a gauge in accordance with the current edition of IEC 60061-3, sheet 7006-51A for E27 caps and sheet 7006-55 for E14 caps.*		P
	2. *Insert* the following after ninth paragraph: All accessible parts shall be separated from live parts by double or reinforced insulation.		P
10	Variation *Delete* Clause and *replace* with the following: **10 Endurance and thermal tests** **10.1 General** The provisions of Section 12 of AS/NZS 60598.1 and Clauses 10.2 and 10.3 shall apply.		P
	10.2 Endurance The test duration shall be 240 h (i.e. 10 × 24 normal operations).		P
	10.3 Surface temperature compliance Any accessible surface temperature of the lamp shall be not higher than 73°C for metallic surfaces and 90°C for non-metallic surfaces. NOTE These temperature limits were derived from the upper limits of touch temperature from IEC Guide 117. The surface temperature of inaccessible parts of the lamp cap shall be not higher than 145°C.		P
12	Variation *Delete* Clause and *replace* with the following: **12 Resistance to flame and ignition** **12.1 General** Parts made of non-metallic material shall be resistant to flame and ignition. For materials other than ceramic, compliance is		P

Attachment 1: Differences for AS/NZS 62560: 2017 + A1: 2019			
Clause	Requirement + Test	Result - Remark	Verdict
	checked by the tests specified in Clauses 12.2, 12.3, 12.4 and 12.5 as appropriate. This Clause does not apply to decorative trims, knobs, wiring insulation and other parts not likely to be ignited or to propagate flames from inside the lamp. This Clause applies to all other parts, including components even if they have been tested to their own standard.		
	12.2 Non-metallic material that supports current-carrying connections Parts made of non-metallic material that supports current-carrying connections shall withstand the following tests: *Parts are subjected to a test using a nickel-chromium glow-wire.* *The test apparatus and test procedure shall be those described in AS/NZS 60695.2.10.* *The glow-wire is heated to 750°C and applied to the test sample for 30 s.* *For all tests, any flame or glowing of the sample shall extinguish within 30 s of withdrawing the glow-wire, and any burning or molten drop shall not ignite a single layer of tissue paper, as specified in Clause 4.187 of ISO 4046-4, spread out horizontally 200 mm ± 5 mm below the sample*.	PCB, Plastic enclosure, connector on LED module	P
	12.3 All other parts made of non-metallic material *All other parts made of non-metallic material shall withstand the following test:* *Parts are subjected to a test using a nickel-chromium glow-wire.* *The test apparatus and test procedure shall be those described in AS/NZS 60695.2.10.* *The glow-wire is heated to 650°C and applied to the test sample for 30 s.* *For all tests, any flame or glowing of the sample shall extinguish within 30 s of withdrawing the glow-wire, and any burning or molten drop shall*	Heat shrinkable tube, Lens	P

Attachment 1: Differences for AS/NZS 62560: 2017 + A1: 2019			
Clause	Requirement + Test	Result - Remark	Verdict
	not ignite a single layer of tissue paper, as specified in Clause 4.187 of ISO 4046-4, spread out horizontally 200 mm ± 5 mm below the sample.		
	12.4 Consequential needle flame test During the application of the 750°C glow-wire test of Clause 12.2, if a flame is produced that persists for longer than 2 s the lamp shall be further tested as follows: *The needle-flame test of AS/NZS 60695.11.5 is applied to non-metallic parts that encroach within the envelope of a vertical cylinder having a diameter of 20 mm and a height of 50 mm above the point of application of the glow-wire. The needle-flame is applied to the test sample for 30 s.* *Parts shielded by a barrier that meets the needle-flame test of AS/NZS 60695.11.5 are not tested.* *The duration of burning shall not exceed 30 s after removal of the test flame and any burning drop shall not ignite the underlying parts or tissue paper specified in Clause 4.187 of ISO 4046-4, spread out horizontally 200 mm ± 5 mm below the sample.* *The needle-flame test is not carried out on parts that are made of material classified as V-0 or V-1 according to AS/NZS 60695.11.10. The sample of material submitted to the test of AS/NZS 60695.11.10 shall be no thicker than the relevant part*		N/A
	12.5 PCB needle flame test *PCBs shall be subjected to the needle flame test of AS/NZS 60695.11.5. The needle-flame shall be applied for 30 s on an edge of the PCB at least 10 mm from a corner.* *The duration of burning shall not exceed 15 s after removal of the needle-flame and any burning droplets shall not ignite the tissue paper placed underneath the PCB.* *The needle-flame test is not carried out on PCBs made of material that is V0 rated according to AS/NZS 60695.11.10.*	V-0	P

Attachment 1: Differences for AS/NZS 62560: 2017 + A1: 2019			
Clause	Requirement + Test	Result - Remark	Verdict
Bibliography	*Addition* *Add* the following: IEC Guide 117, *Electrotechnical equipment—Temperatures of touchable hot surfaces*		P
	Special national conditions (if any)		P
4.101	Self-ballasted LED lamps shall not be constructed to represent a model, person or animal, such that by its design and materials is likely to be treated by a child as a toy.		P

--- End of attachment 1---

Attachment 2: EU Group differences			
Clause	Requirement + Test	Result - Remark	Verdict

	CENELEC COMMON MODIFICATIONS (EN)		
Annex ZA (normative)	Normative references to international publications with their corresponding European publications		—
	Lamps with the following caps are excluded from EN 62560:2012/A1:2015 as they do not comply with European safety requirements: E11; E12; E17; E26; E26d; E39		N/A
7.Z2	**Fixing of conductors**		P
7.Z2.1	**Requirements** The fixing of the conductors inside the lamp shall be such that, if a conductor becomes loose or detached, the conductor cannot reduce clearances or creepage distances below the values as specified in 14. For the purpose of these requirements, it is assumed that: – two independent fixings will not become loose or detached at the same time; and – parts fixed by means of screws or nuts provided with self-locking washers or other means of locking are not liable to become loose or detached.		P
7.Z2.2	**Compliance criteria** Compliance is checked by inspection, by measurement or in case of doubt by applying a force of 10 N in the most unfavourable direction. EXAMPLE Constructions regarded as meeting the requirements include: – close-fitting tubing (for example, a heat shrink or rubber sleeve), applied over the wire and its termination; – conductors connected by soldering and held in place near to the termination, independently of the soldered connection; – conductors connected by soldering and securely hooked in before soldering, provided that the hole through which the conductor is passed is not unduly large; – conductors connected to screw terminals, with an additional fixing near to the terminal that clamps, in the case of stranded conductors, the insulation and not only the conductors; – conductors connected to screw terminals and provided with terminators that are unlikely to become free (for example, ring lugs crimped onto the conductors), however, the pivoting of such terminators is considered; or – short rigid conductors that remain in position when the terminal screw is loosened		P

---End of attachment 2 ---

Attachment 3: EN 62493:2015			
Clause	Requirement + Test	Result - Remark	Verdict
4	LIMITS (Test summary)		
4.2.2	Lighting equipment deemed to comply with the Van der Hoofden test without testing		P
4.2.3	Unintentional radiating part of lighting equipment	factor F ≤ 1	N/A
4.3	Intentional radiating part of lighting equipment		P

- - - End of Attachment 3 - - -

Attachment 4: Photo documentation

Details of: PCB view for A60-12-TW/A12W/14/D, same as A60-12-TW/A13W/14/D

View:

☒ general

☒ front

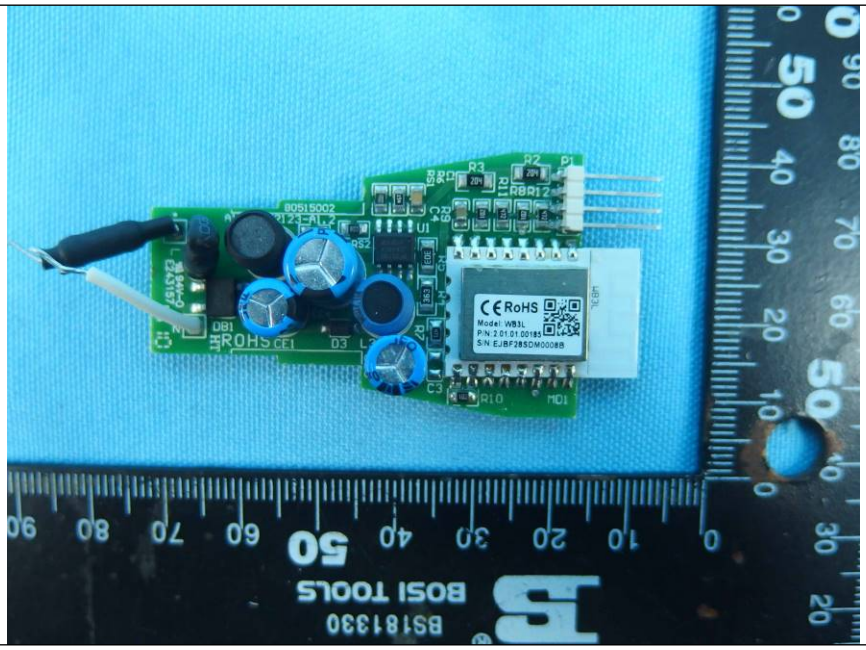
☐ rear

☐ right

☐ left

☐ top

☐ bottom



Details of: PCB view for A60-12-TW/A12W/14/D, same as A60-12-TW/A13W/14/D

View:

☒ general

☒ front

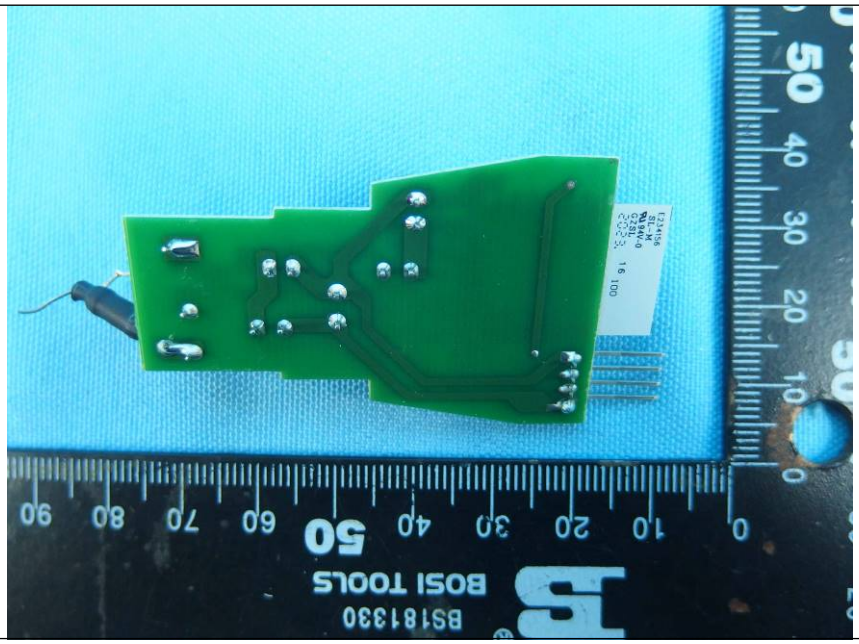
☐ rear

☐ right

☐ left

☐ top

☐ bottom



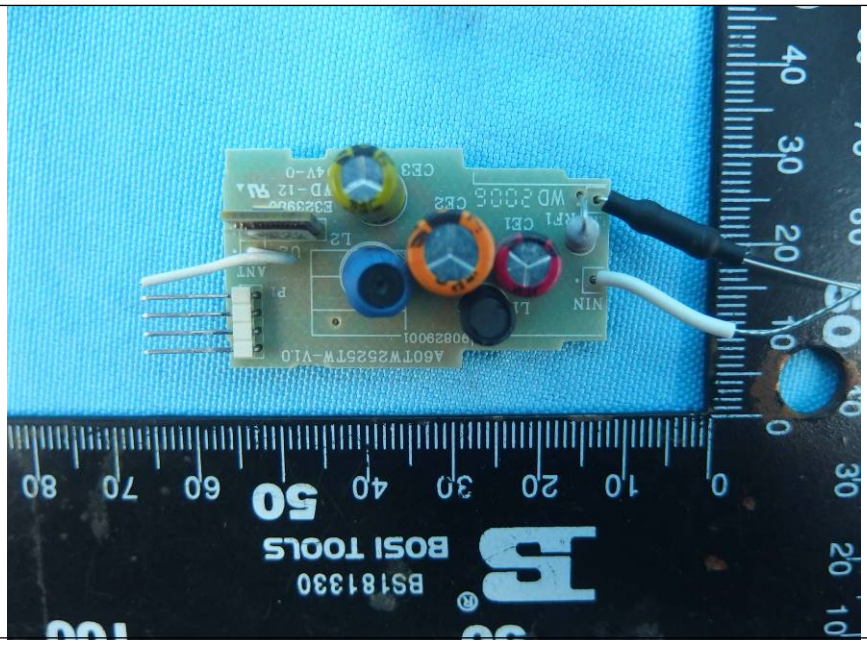
Details of: PCB view for A60-9-RGBTW/A12W/14/DJ, similar as A60-9-RGBTW/A13W/14/DJ, A60-

Attachment 4: Photo documentation

12-RGBTW/A12W/14/DJ and A60-12-RGBTW/A13W/14/DJ

View:

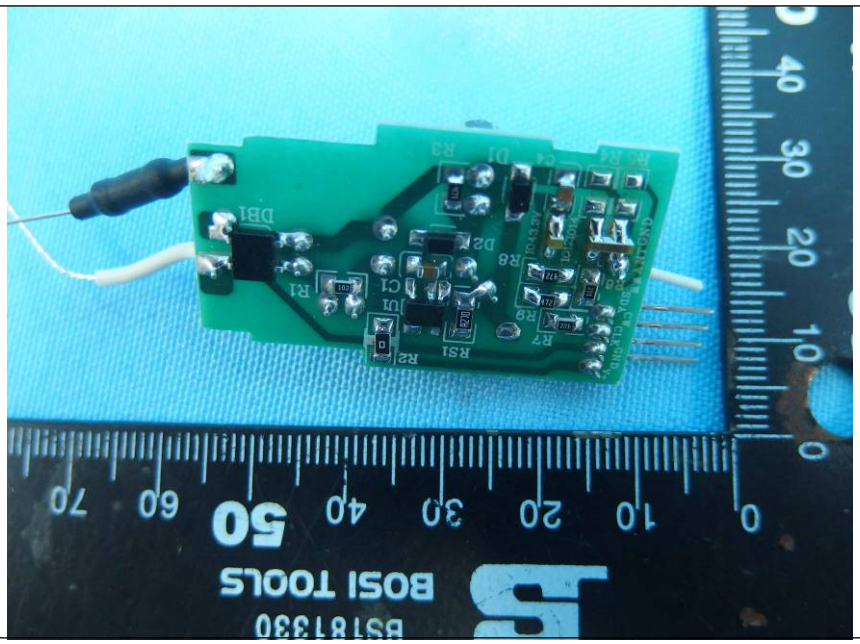
☒ general
☒ front
☐ rear
☐ right
☐ left
☐ top
☐ bottom



Details of: PCB view for A60-9-RGBTW/A13W/14/DJ, similar as A60-9-RGBTW/A13W/14/DJ, A60-12-RGBTW/A12W/14/DJ and A60-12-RGBTW/A13W/14/DJ

View:

☒ general
☒ front
☐ rear
☐ right
☐ left
☐ top
☐ bottom



- - - End of Attachment 4 - - -