

RF - TEST REPORT

Report Number : **68.940.21.0070.01** Date of Issue: **October 8, 2021**

Model : NL59-E-YYYYLW-3PK-EU; NL59-E-YYYYLW-3PK;
 NL59-K-YYYYLW-4PK-EU; NL59-K-YYYYLW-4PK;
 NL59-K-YYYYLW-5PK-EU; NL59-K-YYYYLW-5PK;
 NL59-K-YYYYLW-6PK-EU; NL59-K-YYYYLW-6PK;
 NL59-K-YYYYLW-7PK-EU; NL59-K-YYYYLW-7PK;
 NL59-K-YYYYLW-8PK-EU; NL59-K-YYYYLW-8PK;
 NL59-K-YYYYLW-9PK-EU; NL59-K-YYYYLW-9PK;
 NL59-K-YYYYLW-10PK-EU; NL59-K-YYYYLW-10PK;
 NL59-K-YYYYLW-11PK-EU; NL59-K-YYYYLW-11PK;
 NL59-K-YYYYLW-12PK-EU; NL59-K-YYYYLW-12PK;
 NL59-K-YYYYLW-13PK-EU; NL59-K-YYYYLW-13PK;
 NL59-K-YYYYLW-14PK-EU; NL59-K-YYYYLW-14PK;
 NL59-K-YYYYLW-15PK-EU; NL59-K-YYYYLW-15PK;
 NL59-K-YYYYLW-16PK-EU; NL59-K-YYYYLW-16PK;
 NL59-K-YYYYLW-17PK-EU; NL59-K-YYYYLW-17PK;
 NL59-K-YYYYLW-18PK-EU; NL59-K-YYYYLW-18PK
 ['YYYY' can be 0000-9999, stands for different sales area]

Product Type : Fixed general purpose luminaires

Applicant : NANOGRID LIMITED

Address : Room 1301, 13/F, Excel Centre, 483A Castle Peak Road,
 Lai Chi Kok, Kowloon, HONG KONG

Production Facility : SEVECO GLOBAL LTD.

Address : 2 Jianxiang St. Hanxishui Chashan Town,
 523377 Dongguan, Guangdong,
 PEOPLE'S REPUBLIC OF CHINA

Test Result : ☒ Positive ☐ Negative

Total pages including Appendices : **27**

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1 Report Version

Revision	Release Date	History/Memo.
1.0	October 8, 2021	Initial Release

2 General Information

2.1 Notes

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Prepared By
Project Engineer

2021-10-08

Date

Henry Chen

Name



Signature

Approved By
Project Manager

2021-10-08

Date

Dawi Xu

Name



Signature

2.2 Testing Laboratory

Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2,
Nanshan District, Shenzhen City, 518052, P. R. China,

Telephone: 86 755 8828 6998

Fax: 86 755 8828 5299

2.3 Details of Applicant

Client: NANOGRID LIMITED

Address: Room 1301, 13/F, Excel Centre, 483A Castle Peak Road,
Lai Chi Kok, Kowloon, HONG KONG

Product Description: Fixed general purpose luminaires

Submitted Model No.:

NL59-E-YYYYLW-3PK-EU; NL59-E-YYYYLW-3PK;
NL59-K-YYYYLW-4PK-EU; NL59-K-YYYYLW-4PK;
NL59-K-YYYYLW-5PK-EU; NL59-K-YYYYLW-5PK;
NL59-K-YYYYLW-6PK-EU; NL59-K-YYYYLW-6PK;
NL59-K-YYYYLW-7PK-EU; NL59-K-YYYYLW-7PK;
NL59-K-YYYYLW-8PK-EU; NL59-K-YYYYLW-8PK;
NL59-K-YYYYLW-9PK-EU; NL59-K-YYYYLW-9PK;
NL59-K-YYYYLW-10PK-EU; NL59-K-YYYYLW-10PK;
NL59-K-YYYYLW-11PK-EU; NL59-K-YYYYLW-11PK;
NL59-K-YYYYLW-12PK-EU; NL59-K-YYYYLW-12PK;
NL59-K-YYYYLW-13PK-EU; NL59-K-YYYYLW-13PK;
NL59-K-YYYYLW-14PK-EU; NL59-K-YYYYLW-14PK;
NL59-K-YYYYLW-15PK-EU; NL59-K-YYYYLW-15PK;
NL59-K-YYYYLW-16PK-EU; NL59-K-YYYYLW-16PK;
NL59-K-YYYYLW-17PK-EU; NL59-K-YYYYLW-17PK;
NL59-K-YYYYLW-18PK-EU; NL59-K-YYYYLW-18PK
['YYYY' can be 0000-9999, stands for different sales area]

2.4 Application Details

Date of receipt of order: July 19, 2021

Date of receipt of test item: July 19, 2021

Date of test: July 19, 2021 to July 26, 2021

2.5 Applied Standard

Test Standards	
ETSI EN 300 330 V2.1.1 (2017-02)	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz
EN 62479:2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
EN 50663:2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

2.6 Test Summary

Table 1. Summary of results

Conformance requirement according to ETSI EN 300 330 V2.1.1 (2017-02)		Result
Essential parameter	Corresponding technical requirements	
Transmitter requirements	4.3.1 Permitted range of operating frequencies ^a	N/A
	4.3.2 Operating frequency ranges ^a	N/A
	4.3.3 Modulation bandwidth ^a	N/A
	4.3.4 Transmitter H-field requirements ^b	N/A
	4.3.5 Transmitter RF carrier current ^c	N/A
	4.3.6 Transmitter radiated E-field ^d	N/A
	4.3.7 Transmitter conducted spurious emissions ^c	N/A
	4.3.8 Transmitter radiated spurious domain emission limits < 30 MHz ^a	N/A
	4.3.9 Transmitter radiated spurious domain emission limits > 30 MHz ^a	N/A
	4.3.10 Transmitter Frequency stability ^e	N/A
Receiver requirements	4.4.2 Receiver spurious emissions ^f	PASS
	4.4.3 Adjacent channel selectivity ^g	N/A
	4.4.4 Receiver blocking or desensitization ^h	N/A

Remark: NFC function pure passive device only clause (4.4.2 of the EN 300 330 apply to it)

NOTE 1 “a” The requirement applies to all EUT.

NOTE 2 “b” The requirement only applies for equipment under product class 1 and class 2.

NOTE 3 “c” The requirement applies to Product Class 3 only.

NOTE 4 “d” The requirement applies to Product Class 4 only.

NOTE 5 “e” The requirement shall be applicable only for channelized systems where channel limits are defined.

NOTE 6 “f” The requirement does not apply to receivers used in combination with permanently co-located transmitters continuously transmitting.

NOTE 7 “g” The requirement only applies for channelized systems in the 27 MHz range.

NOTE 8 “h” The requirement only applicable for channelized systems where channel definitions are used.

3 Equipment Specification

3.1 General Description

EUT is a Fixed general purpose luminaires which support 2.4G proprietary protocol, Thread, NFC and 2.4GWiFi. Only NFC included in this report.

The products covered in this report named 'Nanoleaf Lines' are Class II luminaires for indoor use only, equipped with non replaceable light source.

The products contain three parts, LED driver, LED controller and LED panel.

The back surfaces of LED controller, LED panel and interconnection connector are with adhere tape for mounting.

The plastic cove of LED panel and enclosure is secured via. ultrasonic wave or glue.

LED driver and LED controller for all models are same.

All models have similar electrical and mechanical structures except that quantities of LED panel is different.

Model list:

Model No.	LED Quantities (pcs)	Rated Power (W)	LED Panel			
			Model No.	Rated Voltage (VDC)	Rated Power (W)	Quantities (pcs)
NL59-E-YYYYLW-3PK-EU	(24White+24RGB) x 3	10	NL59-L	42	2,2	3
NL59-E-YYYYLW-3PK						
NL59-K-YYYYLW-4PK-EU	(24White+24RGB) x 4	12,5	NL59-L	42	2,2	4
NL59-K-YYYYLW-4PK						
NL59-K-YYYYLW-5PK-EU	(24White+24RGB) x 5	15	NL59-L	42	2,2	5
NL59-K-YYYYLW-5PK						
NL59-K-YYYYLW-6PK-EU	(24White+24RGB) x 6	17,5	NL59-L	42	2,2	6
NL59-K-YYYYLW-6PK						
NL59-K-YYYYLW-7PK-EU	(24White+24RGB) x 7	20	NL59-L	42	2,2	7
NL59-K-YYYYLW-7PK						
NL59-K-YYYYLW-8PK-EU	(24White+24RGB) x 8	22,5	NL59-L	42	2,2	8
NL59-K-YYYYLW-8PK						
NL59-K-YYYYLW-9PK-EU	(24White+24RGB) x 9	25	NL59-L	42	2,2	9
NL59-K-YYYYLW-9PK						
NL59-K-YYYYLW-10PK-EU	(24White+24RGB) x 10	27,5	NL59-L	42	2,2	10
NL59-K-YYYYLW-10PK						
NL59-K-YYYYLW-11PK-EU	(24White+24RGB) x 11	30	NL59-L	42	2,2	11
NL59-K-YYYYLW-11PK						
NL59-K-YYYYLW-12PK-EU	(24White+24RGB) x 12	32,5	NL59-L	42	2,2	12
NL59-K-YYYYLW-12PK						
NL59-K-YYYYLW-13PK-EU	(24White+24RGB) x 13	35	NL59-L	42	2,2	13
NL59-K-YYYYLW-13PK						
NL59-K-YYYYLW-14PK-EU	(24White+24RGB) x 14	37,5	NL59-L	42	2,2	14
NL59-K-YYYYLW-14PK						
NL59-K-YYYYLW-15PK-EU	(24White+24RGB) x 15	40	NL59-L	42	2,2	15
NL59-K-YYYYLW-15PK						
NL59-K-YYYYLW-16PK-EU	(24White+24RGB) x 16	42,5	NL59-L	42	2,2	16
NL59-K-YYYYLW-16PK						
NL59-K-YYYYLW-17PK-EU	(24White+24RGB) x 17	45	NL59-L	42	2,2	17
NL59-K-YYYYLW-17PK						
NL59-K-YYYYLW-18PK-EU	(24White+24RGB) x 18	47,5	NL59-L	42	2,2	18
NL59-K-YYYYLW-18PK						

Remark: 'YYYY' can be 0000-9999, stands for different sales area

Unless otherwise specified, RF full tests were applied on NL59-K-0002LW-18PK and other models are deemed to fulfill the relevant RF requirements without further testing.

3.2 Technical Data

EUT Description	
Product Name	Fixed general purpose luminaires
Model Number	NL59-E-YYYYLW-3PK-EU; NL59-E-YYYYLW-3PK; NL59-K-YYYYLW-4PK-EU; NL59-K-YYYYLW-4PK; NL59-K-YYYYLW-5PK-EU; NL59-K-YYYYLW-5PK; NL59-K-YYYYLW-6PK-EU; NL59-K-YYYYLW-6PK; NL59-K-YYYYLW-7PK-EU; NL59-K-YYYYLW-7PK; NL59-K-YYYYLW-8PK-EU; NL59-K-YYYYLW-8PK; NL59-K-YYYYLW-9PK-EU; NL59-K-YYYYLW-9PK; NL59-K-YYYYLW-10PK-EU; NL59-K-YYYYLW-10PK; NL59-K-YYYYLW-11PK-EU; NL59-K-YYYYLW-11PK; NL59-K-YYYYLW-12PK-EU; NL59-K-YYYYLW-12PK; NL59-K-YYYYLW-13PK-EU; NL59-K-YYYYLW-13PK; NL59-K-YYYYLW-14PK-EU; NL59-K-YYYYLW-14PK; NL59-K-YYYYLW-15PK-EU; NL59-K-YYYYLW-15PK; NL59-K-YYYYLW-16PK-EU; NL59-K-YYYYLW-16PK; NL59-K-YYYYLW-17PK-EU; NL59-K-YYYYLW-17PK; NL59-K-YYYYLW-18PK-EU; NL59-K-YYYYLW-18PK ['YYYY' can be 0000-9999, stands for different sales area]
Ratings	100-240VAC; 50/60Hz; Other ratings see " Model list " for details.
TX & RX Frequency	2402-2480MHz for 2.4G proprietary protocol 2405-2480MHz for Thread 2412-2472MHz for WiFi
S/N	NIL
EUT Accessory	
NIL	NIL

NOTE 1: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3.3 Lists of Test Instruments

Radiated Emission Test 1# Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2022-6-4
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	1	2022-7-23
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-005	102294	1	2022-6-23
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2021-9-2
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	1	2022-6-6
Attenuator	Agilent	8491A	68-4-81-16-001	MY39264334	1	2022-6-3
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001	----	3	2022-10-28
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001-A10	Version10.35.02	N/A	N/A

Radiated Spurious Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	EQUIPMENT ID	SERIAL NO.	CAL INTERVAL (YEAR)	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-003	101031	1	2022-6-3
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-003	708	1	2022-6-27
Horn Antenna	Rohde & Schwarz	HF907	68-4-80-14-004	102295	1	2022-7-21
Wideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2022-7-21
Loop Antenna	Rohde & Schwarz	HFH2-Z2	68-4-80-14-006	100398	1	2021-9-2
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	1	2022-6-6
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2022-7-27
Fully Anechoic Chamber	TDK	8X4X4	68-4-90-14-002	--	3	2022-12-6
Test software	Rohde & Schwarz	EMC32	68-4-90-14-002-A10	Version 9.15.00	N/A	N/A

3.4 Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber (68-4-90-14-001) 9kHz-30MHz	4.60dB
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.35dB; Vertical: 4.44dB;

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2007, clause 4.4.3 and 4.5.1.

3.5 Type of Equipment

TYPE OF EQUIPMENT	
☒ []	Stand-alone
[] []	Combined equipment
[] []	Plug-in radio
[] []	Other

3.6 Frequency range

Operating Frequency Range	
Transmitter Frequency Range	
[] []	
[] []	Other - (include frequency ranges supported):
Receiver Frequency Range	
☒ []	13.56MHz
[] []	Other - (include frequency ranges supported):

3.7 Temperature Range

EXTREME TEMPERATURE RANGE over which equipment is to be type tested		
[] []	Extreme Temperature Range	-20°C to +55°C [Category I (General)]
[] []	Extreme Temperature Range	-20°C to +55°C [Category II (Portable)]
☒ []	Extreme Temperature Range	0°C to +35°C [Category III (Equipment for normal indoor use)]
[] []	Normal Temperature Range	0°C to +40°C

3.8 Additional information

The transmitter can operate only:

- ☐ Modulated
- ☐ Un-modulated

ITU Class of emissions 1. 22

Technologies

- ☐ Tagging systems
- ☐ Systems in the 27 MHz range
- ☐ All others

About the EUT:

- ☒ The equipment submitted are representative production models.
- ☐ If not, the equipment submitted are pre-production models.
- ☐ If preproduction equipment are submitted, the final production equipment will be identical in all respects with the equipment tested.
- ☐ If not, supply full details: _____

4 Measurements Result

4.1 Receiver spurious emissions

4.1.1 Test Procedure and limit

Radiated Field Strength < 30 MHz

Limit

State	Frequency $9 \text{ kHz} \leq f < 10 \text{ MHz}$	Frequency $10 \text{ MHz} \leq f < 30 \text{ MHz}$
Standby	5.5 dB μ A/m at 9 kHz descending 3 dB/oct	-25 dB μ A/m

Effective Radiated Power $\geq 30 \text{ MHz}$

Limit

State	47 MHz to 74 MHz 87.5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies between 30 MHz to 1000 MHz
Standby	2 nW / -57dBm	2 nW / -57dBm

4.1.2 Test condition

Date of testing:	2021-09-23 to 2021-09-29
Test Mode:	Transmitting
Ambient temperature:	22.5 °C
Relative humidity:	57.5 %

4.1.3 Test Result

4.1.3.1 Test result for Receiver

EUT: Nanoleaf Lines
M/N: NL59-K-0002LW-18PK
Operating Condition: RX
Comment: Powered by NFC

Radiated Field Strength < 30 MHz

Frequency (MHz)	MaxPeak (dBμA/m)	Limit (dBμA/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.009000	-0.22	36.80	37.02	H	9.0	-31.50
0.023946	-5.48	32.55	38.03	H	0.0	-31.81
0.027377	-0.73	31.97	32.70	H	313.0	-31.82
0.039973	-10.18	30.32	40.50	H	359.0	-31.84
0.054684	-6.75	28.97	35.72	H	9.0	-31.83
0.150000	-12.07	24.58	36.65	H	222.0	-31.88
0.234575	-13.97	22.64	36.62	H	222.0	-31.92
0.488300	-18.13	19.46	37.58	H	274.0	-31.94
1.085300	-20.26	15.81	36.07	H	139.0	-31.86
2.508150	-19.38	11.38	30.76	H	5.0	-31.80
5.736925	-18.75	5.93	24.69	H	0.0	-31.68
13.194450	-20.12	-0.87	19.25	H	86.0	-31.68
29.990050	-20.32	-12.99	7.32	H	243.0	-30.43

Frequency (MHz)	MaxPeak (dBμA/m)	Limit (dBμA/m)	Margin (dB)	Pol	Azimuth (deg)	Corr. (dB/m)
0.027377	8.36	31.97	23.61	V	176.0	-31.82
0.027753	4.92	31.91	26.98	V	235.0	-31.82
0.054778	2.10	28.96	26.86	V	29.0	-31.83
0.055483	-2.33	28.90	31.23	V	29.0	-31.83
0.082179	-9.63	27.19	36.82	V	68.0	-31.84
0.101355	-10.78	26.28	37.06	V	357.0	-31.84
0.159950	-8.83	24.30	33.13	V	245.0	-31.89
0.378850	-17.02	20.55	37.57	V	150.0	-31.91
1.015650	-19.15	16.12	35.27	V	2.0	-31.87
2.428550	-20.55	11.57	32.12	V	160.0	-31.80
5.697125	-20.12	5.99	26.10	V	213.0	-31.68
13.060125	-20.13	-0.76	19.37	V	192.0	-31.68
29.990050	-20.19	-12.99	7.20	V	203.0	-30.43

Effective Radiated Power $\geq$ 30MHz

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
45.142778	-74.90	-57.00	17.90	---	---	154.0	H	175.0	-116.7
175.015000	-81.00	-57.00	24.00	---	---	154.0	H	45.0	-128.8
435.783333	-79.34	-57.00	22.34	---	---	154.0	H	25.0	-120.9

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
50.370000	-74.50	-57.00	17.50	---	---	154.0	V	66.0	-118.9
111.965000	-80.13	-57.00	23.13	---	---	154.0	V	101.0	-119.9
874.438889	-72.62	-57.00	15.62	---	---	154.0	V	147.0	-112.1

4.1.4 Result

The equipment met the requirement of this clause.

5 Estimation of Exposure of Human to Electromagnetic Fields

“low power / inherently compliant”

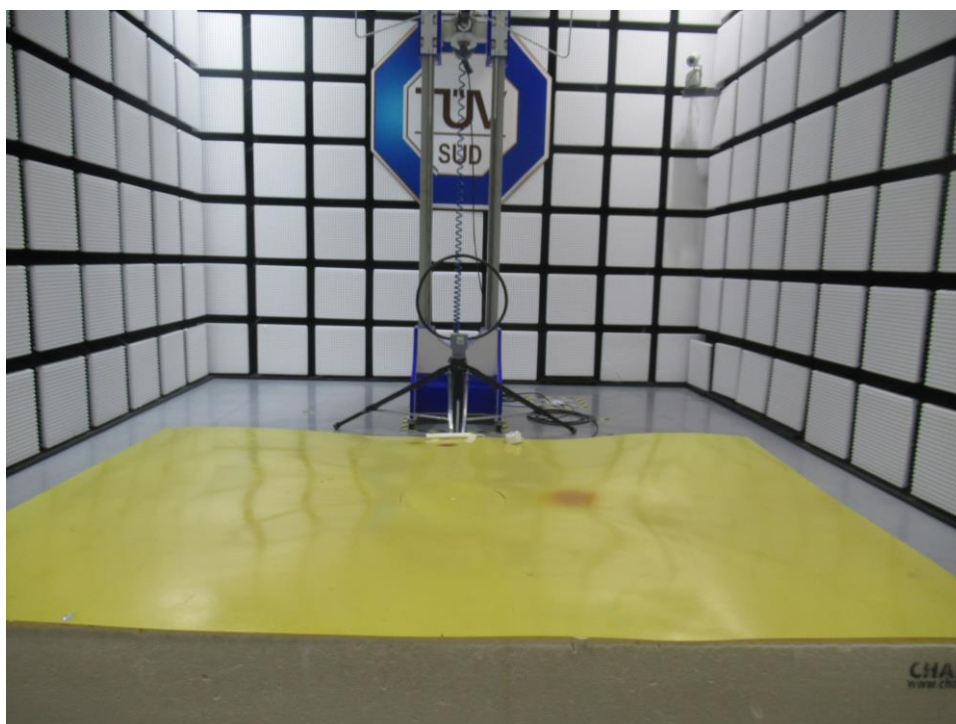
Clause 4.1 A of the standard states:

Typical usage, installation and the physical characteristics of equipment make it inherently compliant with the applicable EMF exposure levels such as those listed in the bibliography. This low-power equipment includes unintentional (or non-intentional) radiators, for example incandescent light bulbs and audio/visual (A/V) equipment, information technology equipment (ITE) and multimedia equipment (MME) that does not contain radio transmitters.

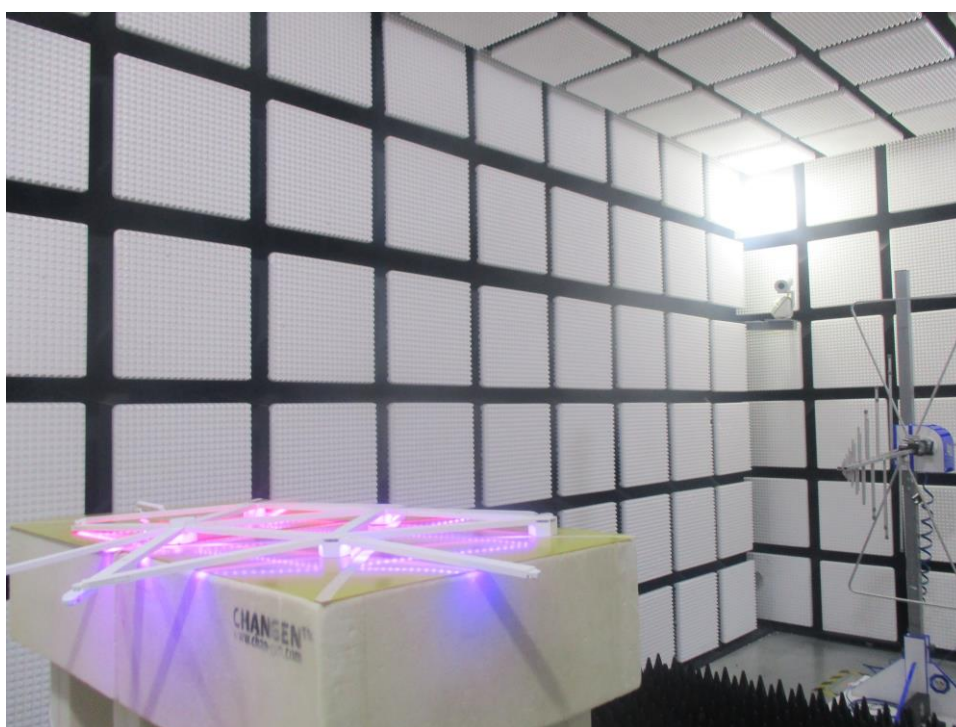
NOTE: Equipment is described as A/V equipment, ITE or MME if its main use is playback/recording of music, voice or images, or processing of digital information.

Result: The EUT is considered to be inherently compliant product according to Clause 4.1 A of EN 62479:2010 and EN 50663:2017 clause 6. And it is deemed to comply with the EMF requirement

6 Test Set-up Photos



Radiated Emission (9KHz-30MHz)

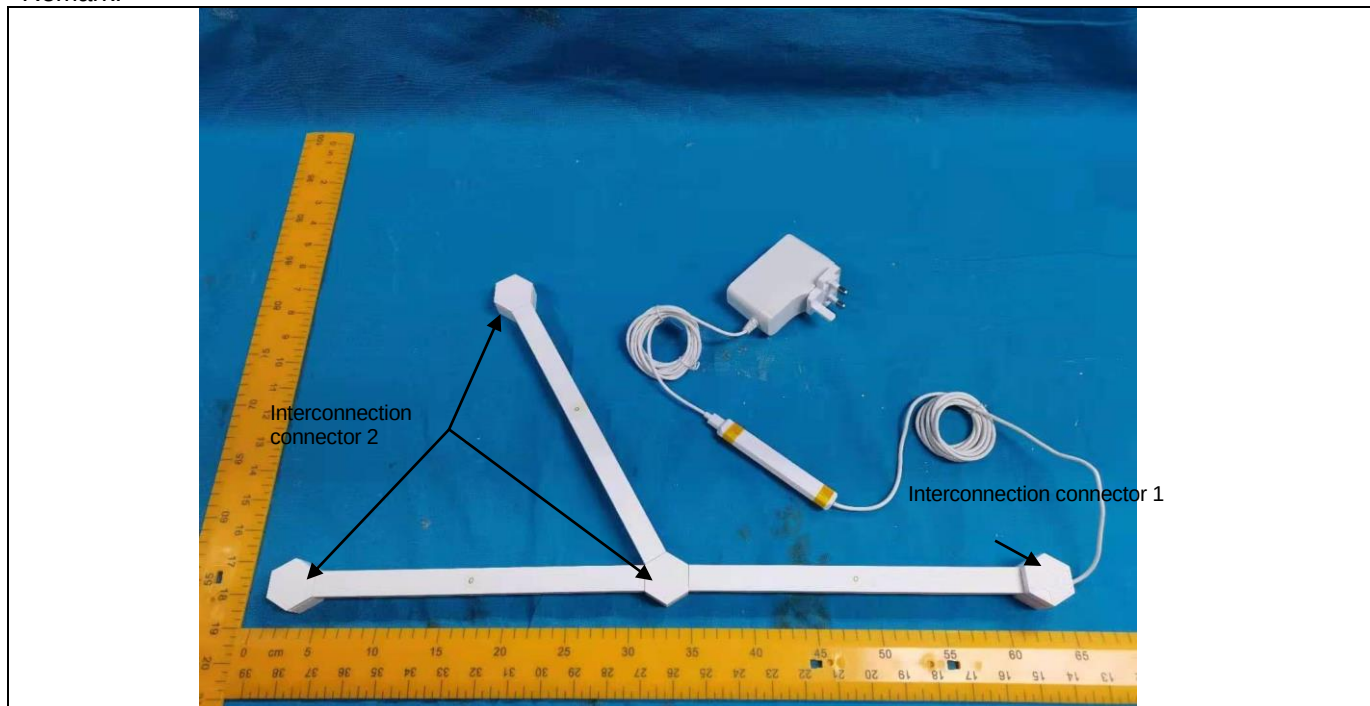


Radiated Emission (30MHz-1GHz)

7 Photographs of EUT

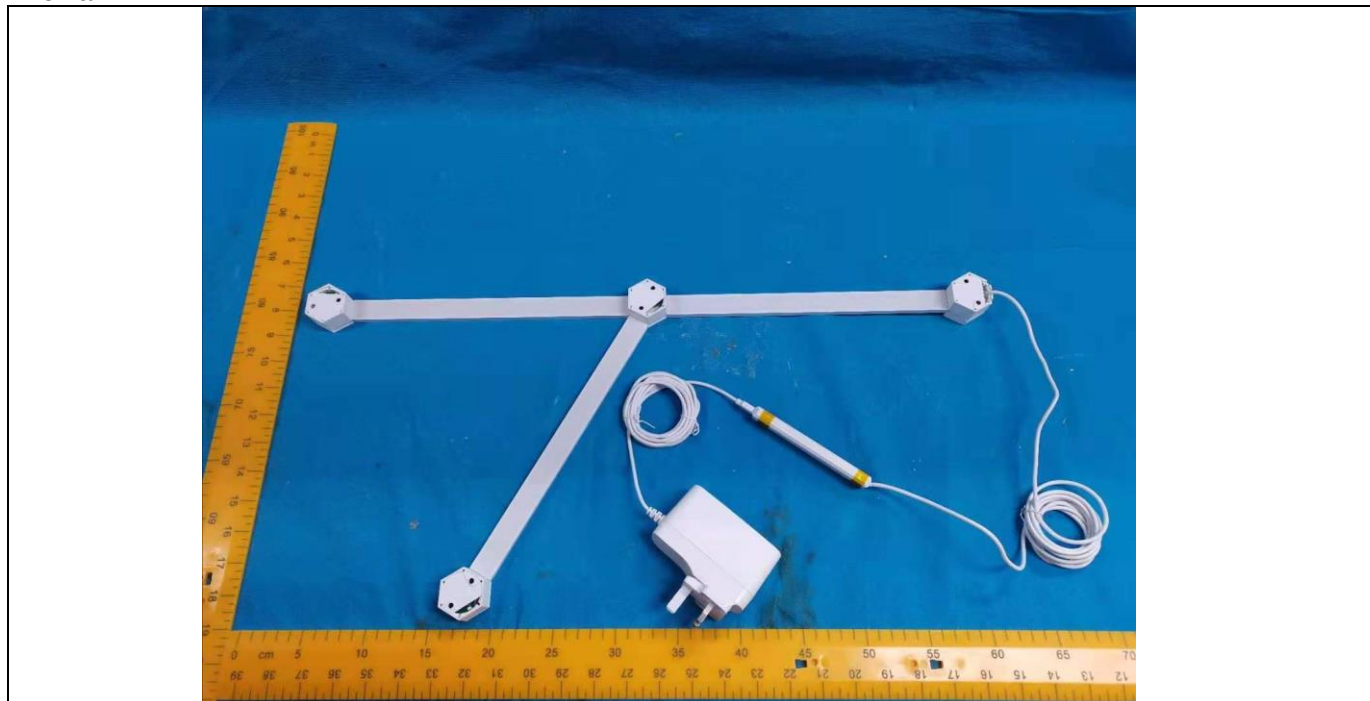
Details of: Front view for NL59-E-0002LW-3PK (representative model)

Remark:



Details of: Front view for NL59-E-0002LW-3PK (representative model)

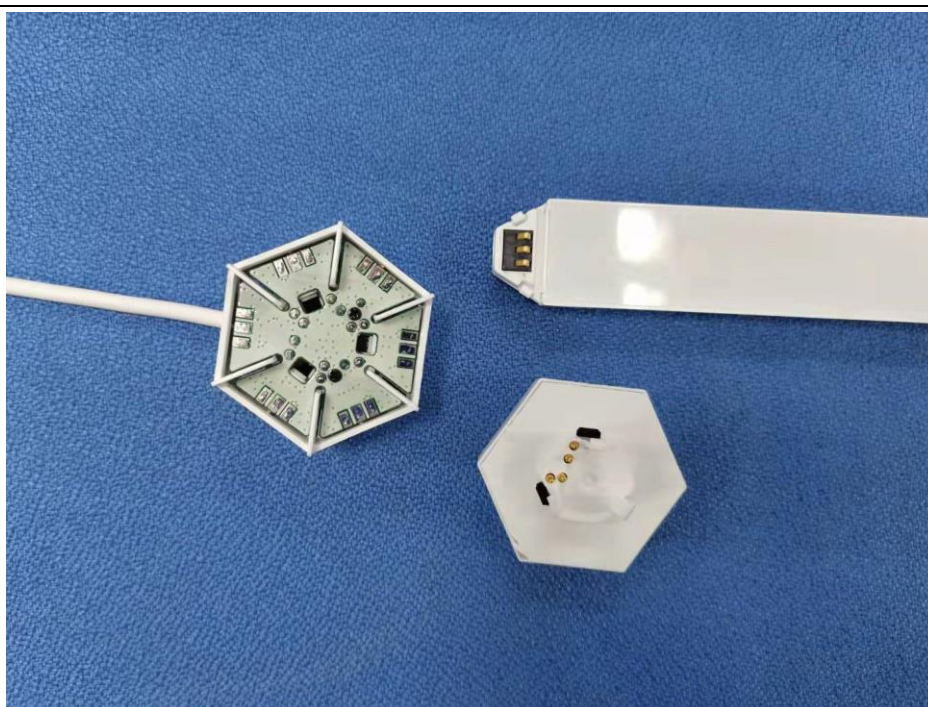
Remark:



Details of: Output plug of LED driver and input socket of controller
Remark:



Details of: Interconnection connector connected to LED panel
Remark:



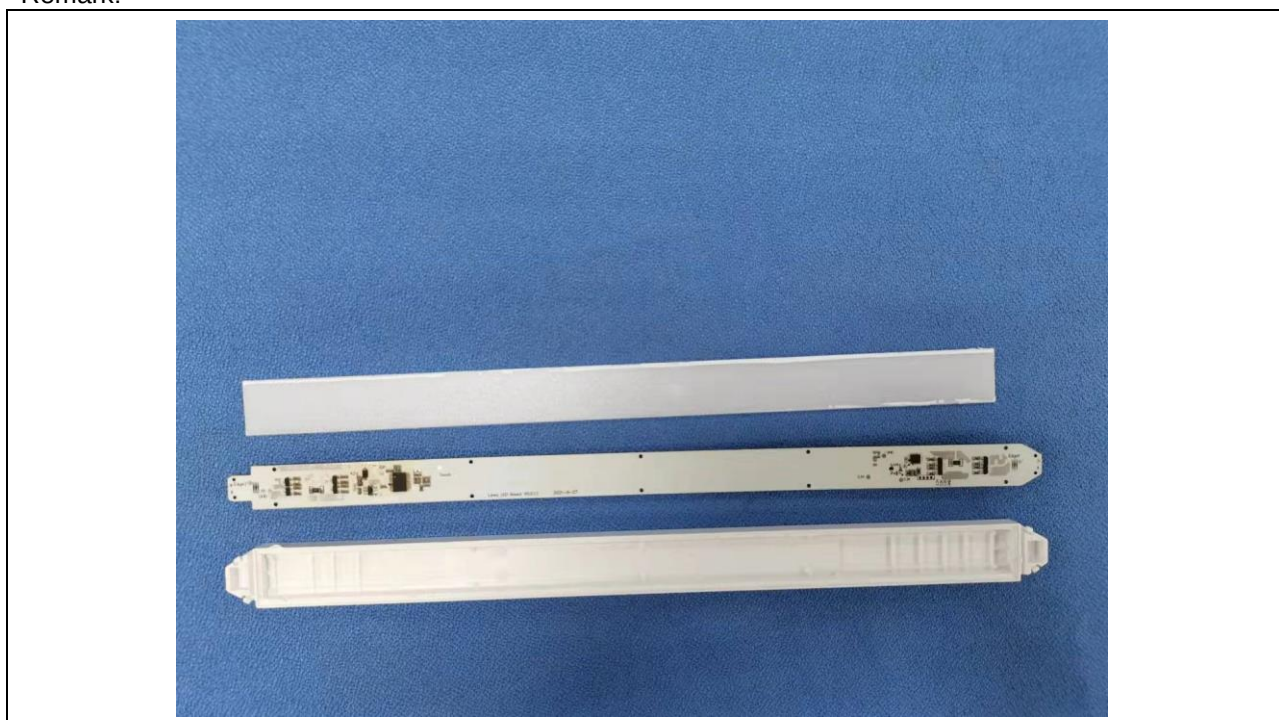
Details of: Internal view for LED panel

Remark:

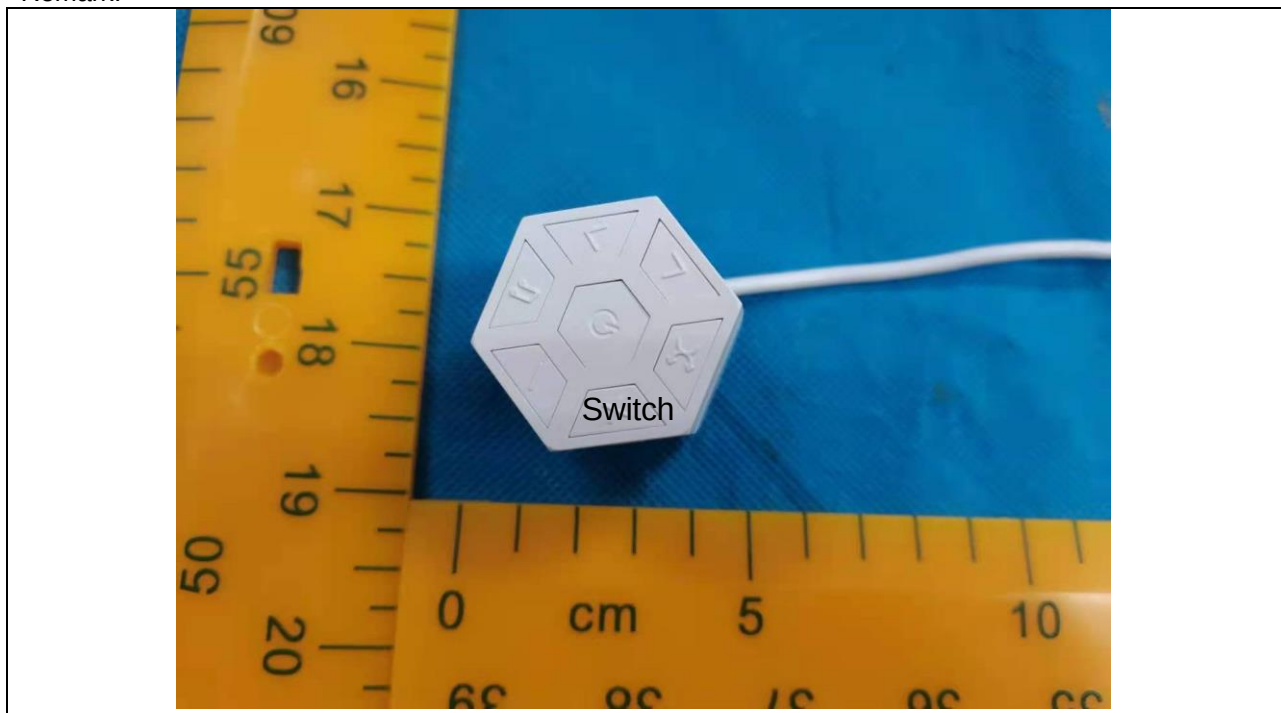


Details of: Internal view for LED panel

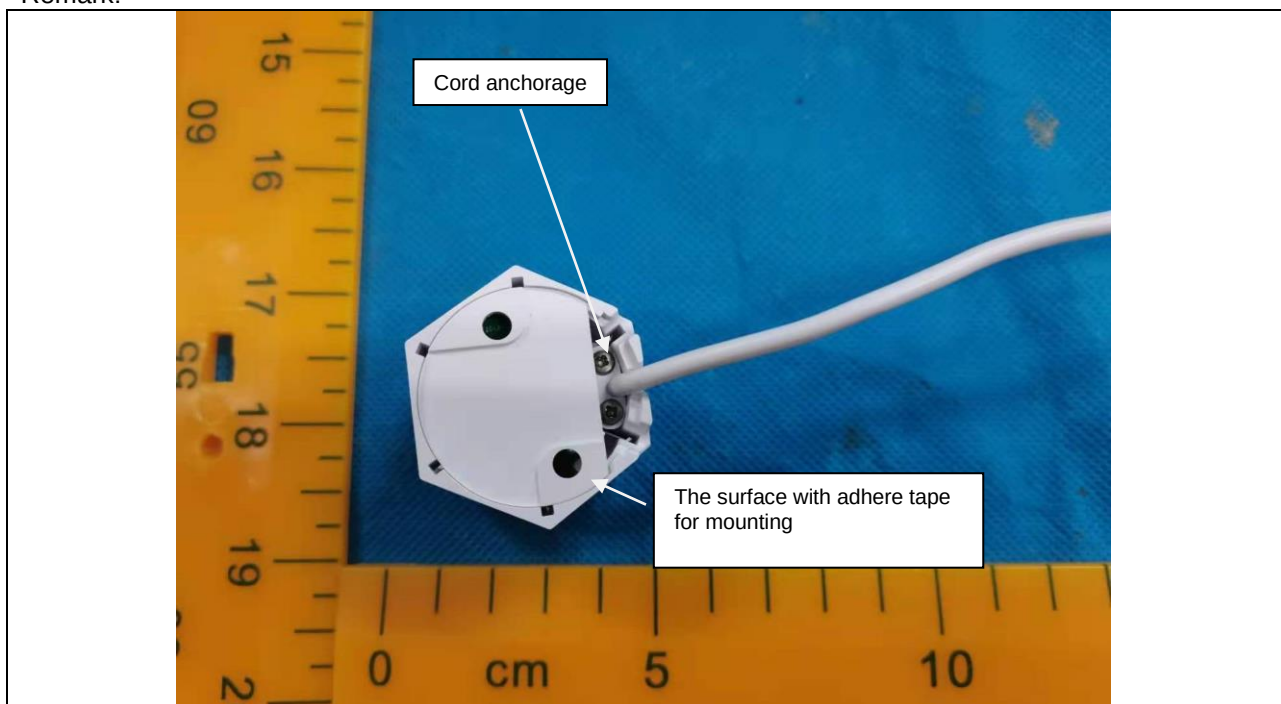
Remark:



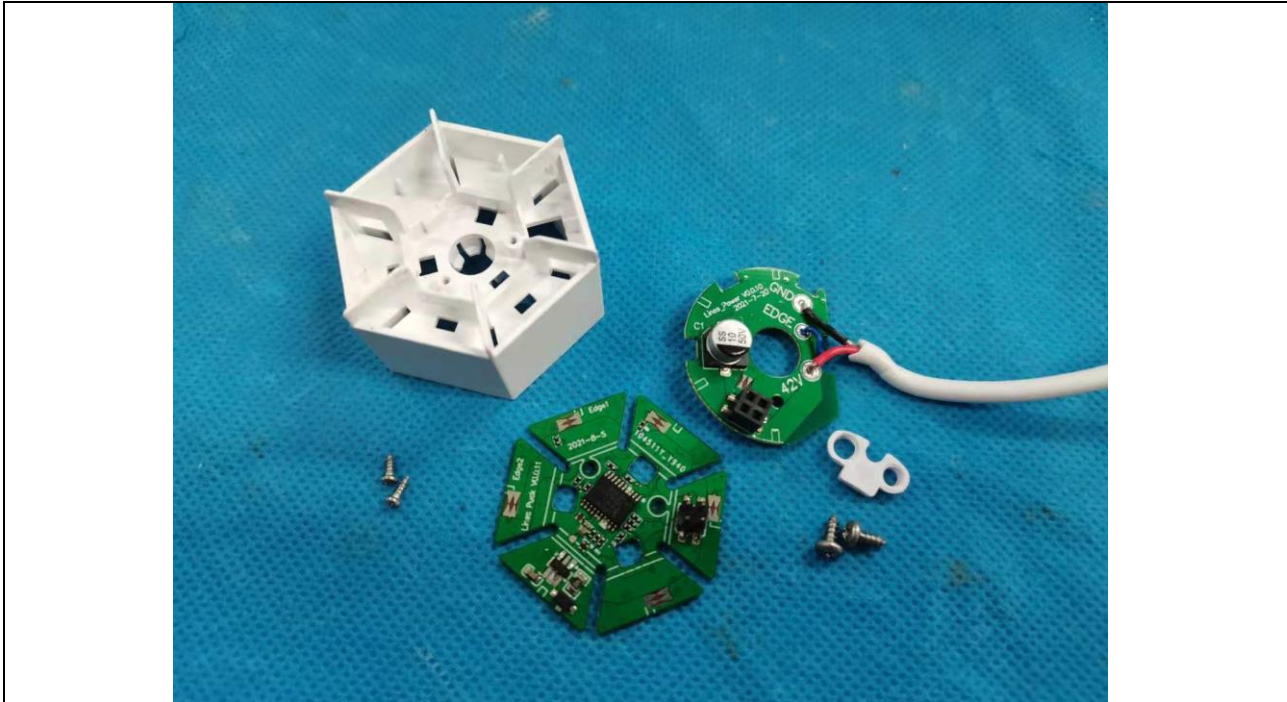
Details of: Interconnection connector 1 view
 Remark:



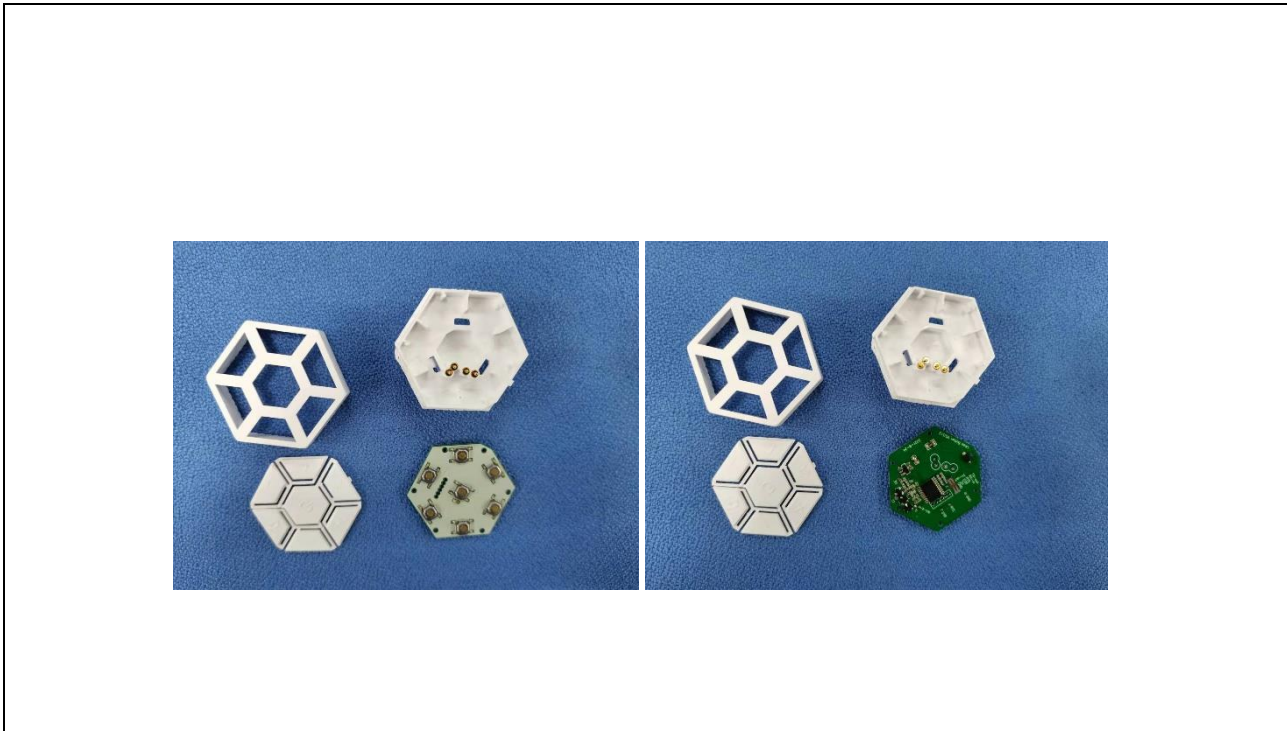
Details of: Interconnection connector 1 view
 Remark:



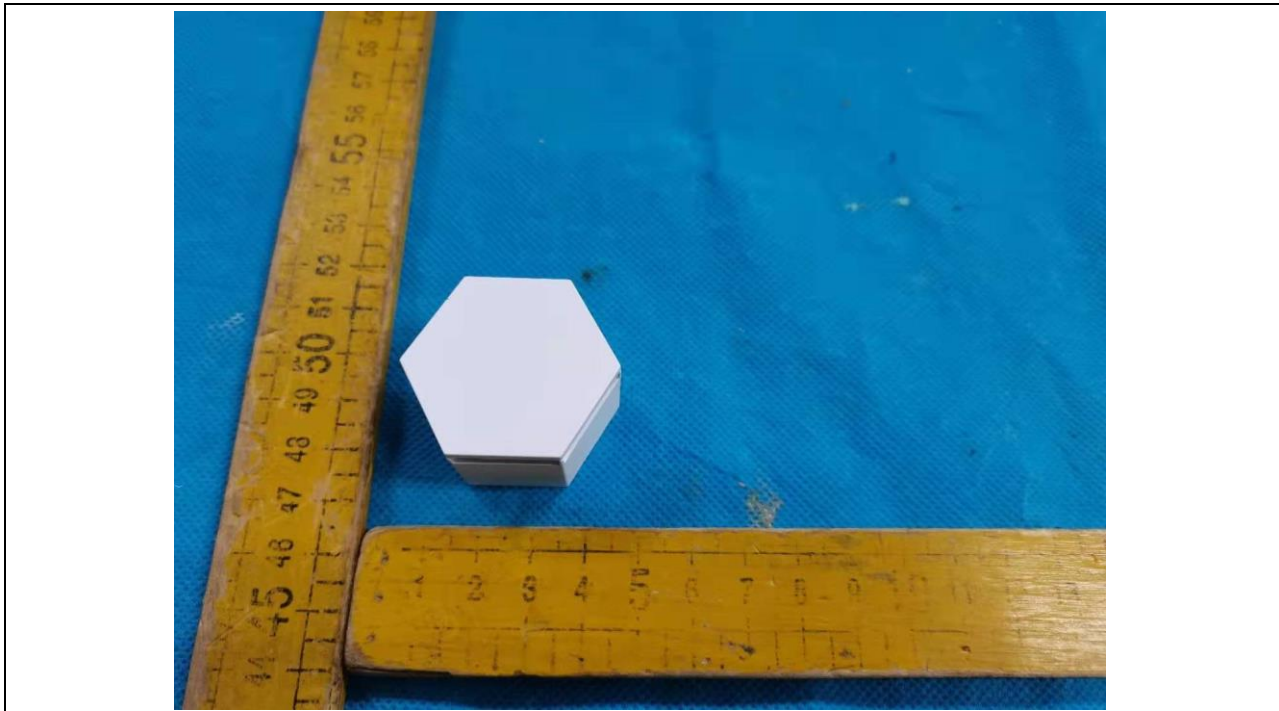
Details of: Interconnection connector 1 internal view
 Remark:



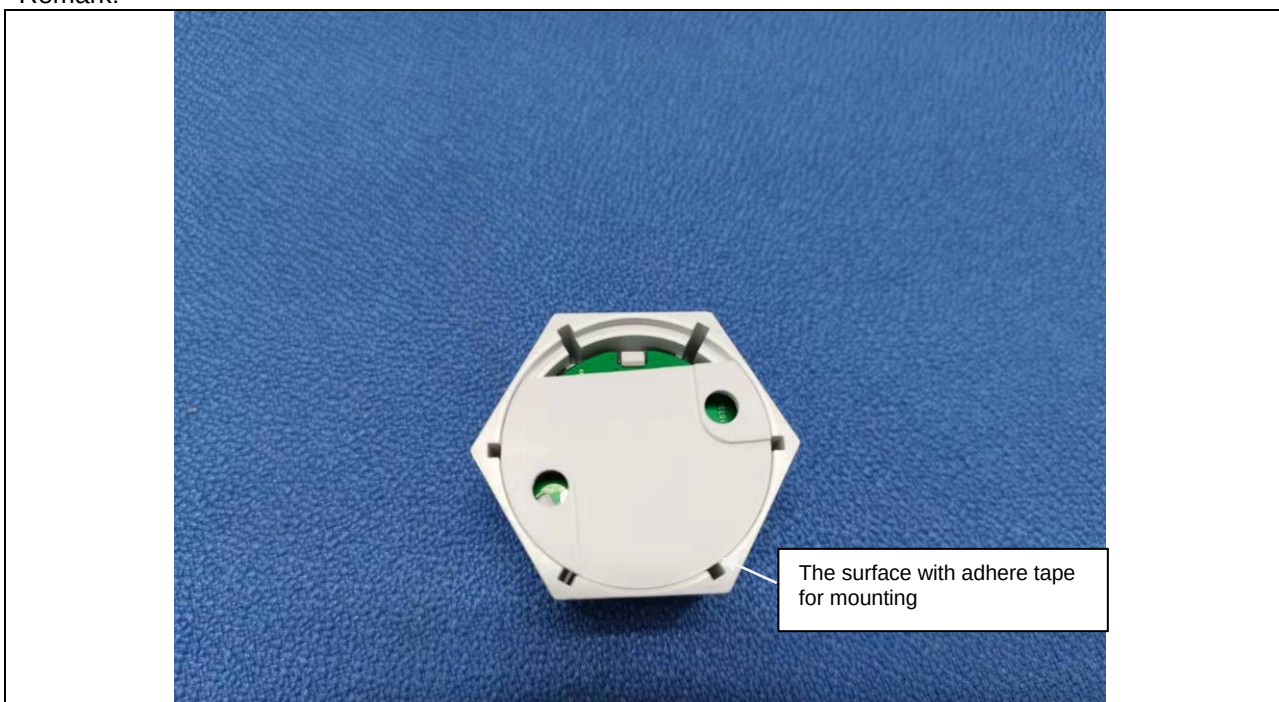
Details of: Interconnection connector 1 internal view
 Remark:



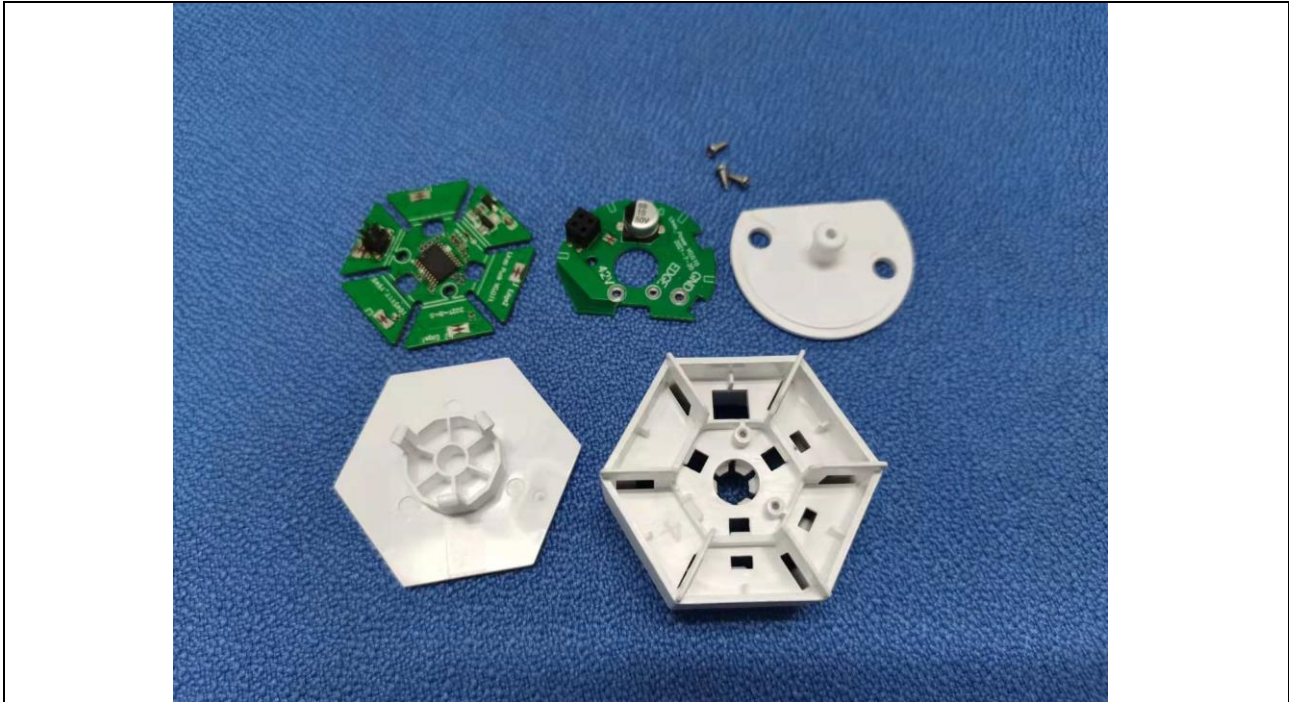
Details of: Interconnection connector 2 view
Remark:



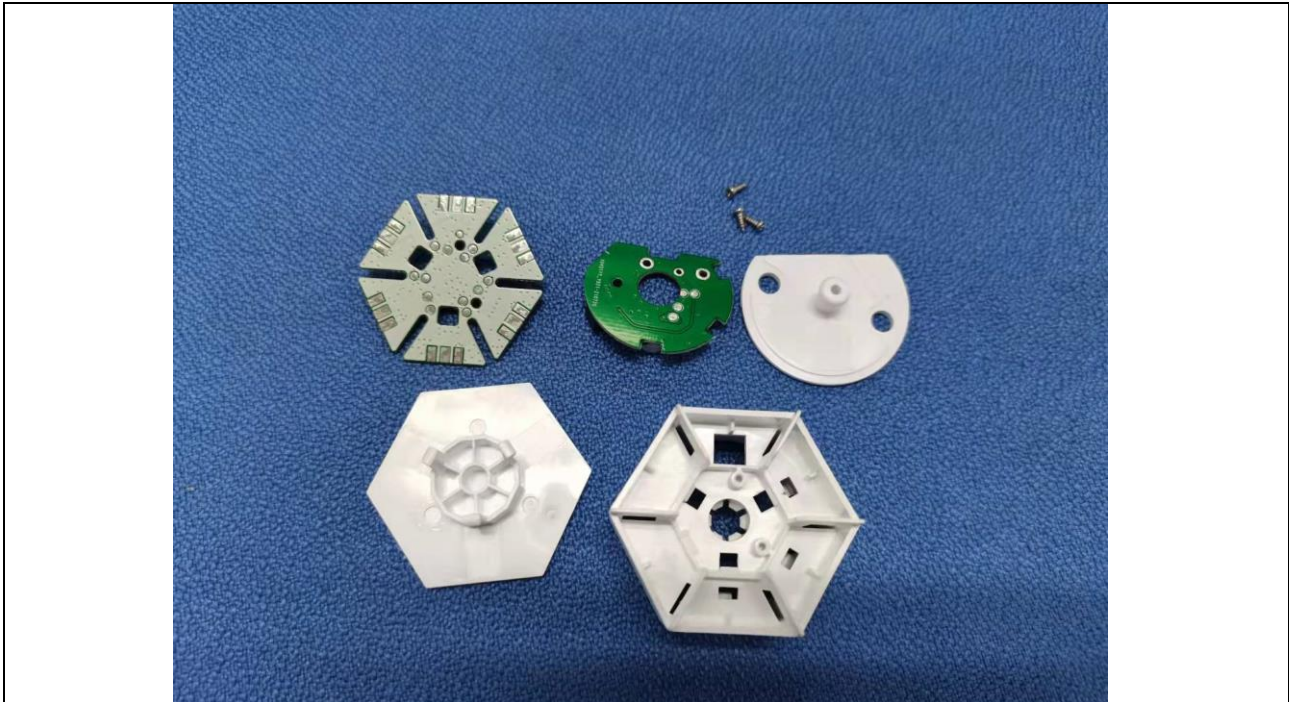
Details of: Interconnection connector 2 view
Remark:



Details of: Interconnection connector 2 internal view
Remark:



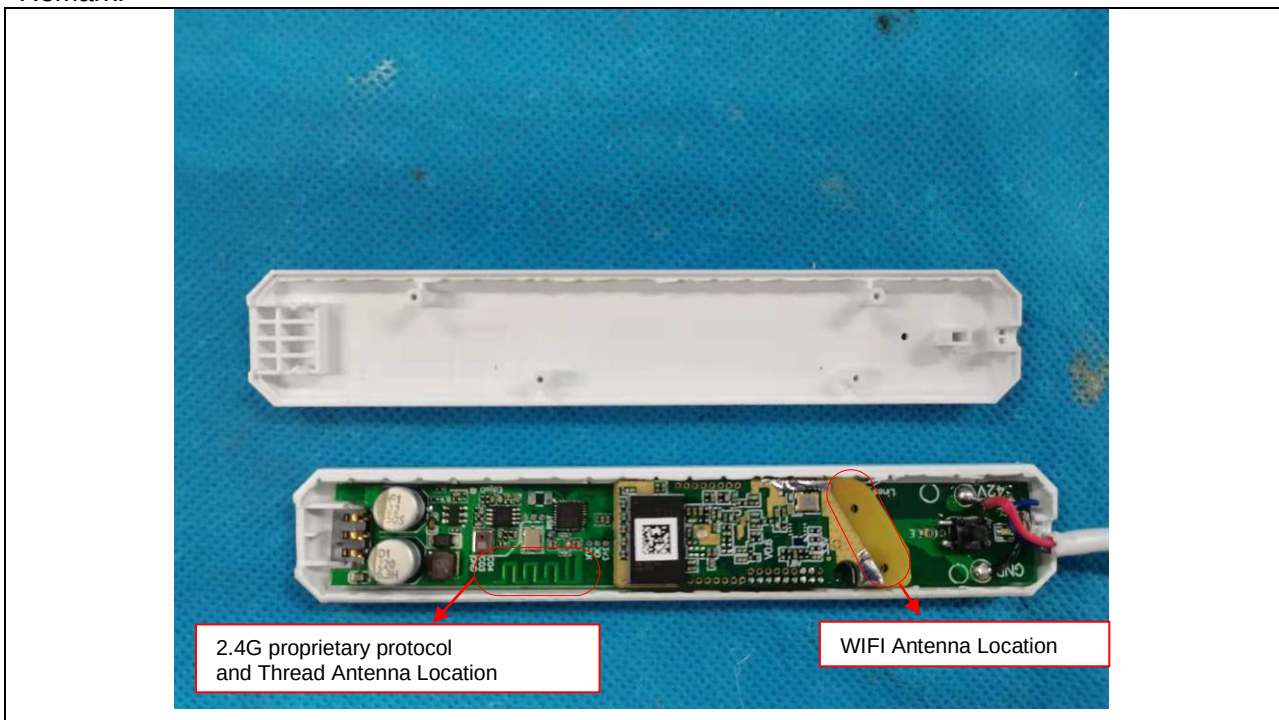
Details of: Interconnection connector 2 internal view
Remark:



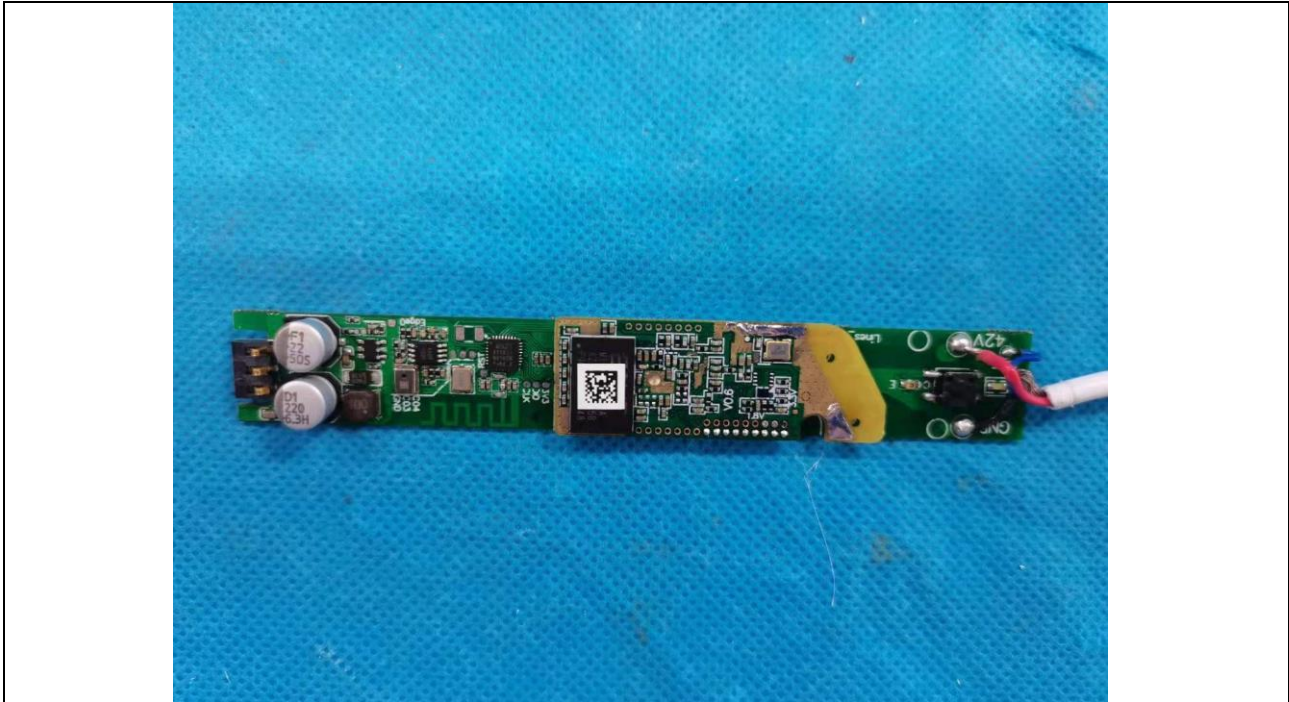
Details of: Controller view
 Remark:



Details of: Controller internal view
 Remark:



Details of: Controller PCB view
Remark:



Details of: Controller PCB view
Remark:



Details of: LED driver view (DSL-42WA-42 420100)
Remark:



Details of: LED driver view (LGSPS420100SPT)
Remark:



THE END