



TEST REPORT IEC 60998-2-1 Connecting devices for low voltage circuits for household and similar purposes Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units	
Report Number	LCSA111822088S
Date of issue	2022-12-07
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Name of Testing Laboratory preparing the Report	Shenzhen LCS Compliance Testing Laboratory Ltd. Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name	Shenzhen Onlumi Technology Limited
Address	Room 218,2F, Building D, YouDing QiChuang Area, NO.62, HePing Road, QingHua Community, LongHua District, Shenzhen, G.D.China
Test specification:	
Standard	IEC 60998-2-1:2002 (see also IEC 60998-1:2002)
Test procedure	Type test
Non-standard test method	N/A
Test Report Form No	IEC60998_2_1A
Test Report Form(s) Originator	DEKRA Certification B.V.
Master TRF	Dated 2017-03
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TRF No. IEC60998_2_1A



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 Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
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Test item description :	Screw Fixing LED Strip Connector
Trade Mark :	N/A
Manufacturer	Same as applicant
Model/Type reference :	SF10XB-2, SF8XB-2, SF8BB-2, SF10BB-2
Ratings :	24VDC 6A Max 144W

Testing procedure and testing location:

<input checked="" type="checkbox"/>	Testing Laboratory:	Shenzhen LCS Compliance Testing Laboratory Ltd.	
Testing location/ address :		Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China	
Tested by		Zora Chen / Test engineer	<i>Zora Chen</i>
Checked by		Tim Liu/ Project engineer	<i>Tim Liu</i>
Approved by		Hart Qiu / Technical manager	<i>Hart Qiu</i>

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

Attachment No.1:
Photo documentation (3 pages)

Summary of testing:

Tests performed (name of test and test clause): The submitted samples were found to comply with the requirements of: ➤ Electrical safety IEC 60998-2-1:2002 (see also IEC 60998-1:2002); EN 60998-1:2004; BS EN 60998-2-1:2004	Testing location: Shenzhen LCS Compliance Testing Laboratory Ltd. Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
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Summary of compliance with National Differences (List of countries addressed):

The product have evaluated the requirements of EN 60998-1:2004, BS EN 60998-2-1:2004.

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Copy of marking plate:

The artwork below may be only a draft.

Screw Fixing LED Strip Connector
SF10XB-2
24VDC 6A Max 144W
Rated connecting capacity: 2.5mm²



Remark:

1. The height dimension of UKCA symbol should not less than 7mm.
2. The other marking label identical to the copy of marking plate except the model name.
3. Importer information will eventually be reflected in the product.

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Test item particulars	
Number of terminals	<input type="checkbox"/> single <input checked="" type="checkbox"/> multiway
Function	<input checked="" type="checkbox"/> junction <input type="checkbox"/> tapping <input type="checkbox"/> junction and tapping
Protection against electric shock	<input type="checkbox"/> with <input checked="" type="checkbox"/> without
Means of fixing	<input type="checkbox"/> with <input checked="" type="checkbox"/> without
IP number	IPX0
Ambient temperature	<input checked="" type="checkbox"/> without T marking <input type="checkbox"/> with T marking (°C):
Type of terminals, screw-type	<input checked="" type="checkbox"/> pillar <input type="checkbox"/> saddle <input type="checkbox"/> screw <input type="checkbox"/> mantle <input type="checkbox"/> stud <input type="checkbox"/> unprepared
Rated connecting capacity (mm ²)	<input type="checkbox"/> 0.5 mm ² <input type="checkbox"/> 0.75 mm ² <input checked="" type="checkbox"/> 1 mm ² <input type="checkbox"/> 1.5 mm ² <input type="checkbox"/> 2.5 mm ² <input type="checkbox"/> 4 mm ² <input type="checkbox"/> 6 mm ² <input type="checkbox"/> 10 mm ² <input type="checkbox"/> 16 mm ² <input type="checkbox"/> 25 mm ² <input type="checkbox"/> 35 mm ²
Type of connector	<input checked="" type="checkbox"/> rigid <input checked="" type="checkbox"/> flexible
Rated voltage (V a.c. / V d.c.)	<input type="checkbox"/> AC <input checked="" type="checkbox"/> DC
Classification of installation and use	Multiway terminal devices
Supply Connection	Screw-type terminal
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	2022-11-18
Date (s) of performance of tests	From 2022-11-18 to 2022-12-01
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 <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
The text of the International Standard IEC 60998-2-1:2002 was approved as British Standard BS EN 60998-2-1:2004 without any modification.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60998-2-1:2002:	

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<p>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..... :</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable</p>
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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:

All models have the same shape but different sizes, all tests are conducted on model SF10XB-2.

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IEC 60998-2-1:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

8	MARKING		P
8.1	On main part:		P
	a) rated connecting capacity (mm ²):	See label	P
	b) rated insulation voltage (V):	See label	P
	c) T marking (°C) (if > 40 °C or < -5 °C):		N/A
	d) type reference:	See page 2	P
	e) manufacturer's or responsible vendor's name, trademark or identification mark:	See page 2	P
	f) IP if > IP20:		N/A
	Type of acceptable conductor "r" or "f"		N/A
	Small devices: only d) and e) indicated on device		N/A
	All marks visible on smallest package unit		N/A
8.102	Stripping length shown on product of smallest package unit		N/A
8.2	Multiway terminal devices: at least two adjacent		P
8.4	Marking: durable and easily legible; 15 s water; 15 s hexane		P

10	CONNECTION OF CONDUCTORS		P
10.1	Connecting devices allow correct connection of conductors		P
10.101	Terminals accept two or more conductors and		P
	accept rigid and/or flexible unprepared conductors		P
10.102	Each terminal accepts conductors (table 101) and provides the connection of at least two successive smaller cross-sectional areas:		P
	Rated connecting capacity (mm ²)	See label	--
	Suitable for connecting cross-sectional areas (mm ²)	Rigid: 1.0 mm ² flexible: 1.0 mm ² (for connecting capacity: 1.0 mm ²)	P
10.103	Terminals accept rigid and flexible conductors (table 101), unless otherwise specified (see 8.1)		P

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IEC 60998-2-1:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
	Smallest diameter (mm); largest diameter (mm)	Rigid solid conductor: 1.2, rigid Stranded conductor: 1.4, flexible conductor: 1.5 (for connecting capacity: 1.0 mm ²)	--
	Tightened and loosened 5 times; torque (Nm); table number	0.2Nm	--
	During the test: terminals show no damage		P
10.104	Secureness test:		P
	during the test: the conductor does not slip out, no break near clamping unit and no damage	See appended table 10.104	--
10.105	Pull test:		P
	- during the test the conductor does not come out	See appended table 10.105	P
10.106	Rigid conductor: rated cross-sectional area (mm ²) :		--
	Flexible conductor: rated cross-sectional area (mm ²)		--
	Torque: as 10.103; after the test no wire of the conductor escaped		P
11	CONSTRUCTION		P*
11.2	Clamping units clamp conductors reliably and between metal surfaces		P
11.3	Connecting devices: insulation of conductors not in contact with live parts of different polarity		P
11.4	Insulating lining: adequate mechanical strength and secured in a reliable manner		P
11.5	Current-carrying parts: adequate mechanical strength, electrical conductivity and resistance to corrosion; type of metal		P
	Current-carrying parts not made with electroplated coating if subjected to mechanical wear		P

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IEC 60998-2-1:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
11.6	Terminals: possible to connect number of conductors as specified by the manufacturer:		P
	- number of conductors.....:		P
	- rigid, cross-sectional area (mm ²)	Rigid: 1.0 mm ² (for connecting capacity: 1.0 mm ²)	--
	- flexible, cross-sectional area (mm ²).....:	flexible: 1.0 mm ² (for connecting capacity:1.0 mm ²)	--
11.7	Fixing means of bases do not serve any other purpose		P
11.101	Screws and nuts of earthing terminals adequately locked against accidental loosening		P
	Not possible to loosen without a tool		P
11.102	Screws and nuts do not serve to fix any other component, and		P
	are not of metal which is soft, such as zinc or aluminium		P
11.103	Rigid wire or wire of flexible conductor cannot slip out		P
11.104	Terminals permit insertion of largest conductor:		P
	- rigid conductors: cross-sectional area (mm ²); max. diameter (mm)	Rigid solid conductor:1.2, rigid Stranded conductor: 1.4 (for connecting capacity: 1.0 mm ²)	P
	- flexible conductors: cross-sectional area (mm ²); max. diameter (mm)	flexible conductor: 1.5 (for connecting capacity: 1.0 mm ²)	P

12	RESISTANCE TO AGEING, TO HUMIDITY CONDITIONS, TO INGRESS OF SOLID OBJECTS AND TO HARMFUL INGRESS OF WATER		P
12.1	Connecting devices resistant to ageing; after the test (168 h): no cracks visible, not sticky or greasy, no damage; test temperature (°C)	<input checked="" type="checkbox"/> 70 °C <input type="checkbox"/> T + 30 °C =	P
12.2	After humidity test (91-95%): no damage; test duration (168 h for connecting devices > IPx2, 48 h for all other).....:	<input type="checkbox"/> 168 h <input checked="" type="checkbox"/> 48 h	P
12.3	IP test (IEC 529)		N/A

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IEC 60998-2-1:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
	After the test, electric strength test as 13.4, and		N/A
	no appreciable entry of water		N/A

13	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
13.1	Insulated connecting devices provided with adequate insulation resistance and electric strength		P
13.2	Insulation between the connected conductors and the external surface is adequate for all the combinations of conductors		P
13.3	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 13.3	P
13.4	Electric strength test	See appended table 13.4	P

14	MECHANICAL STRENGTH		P
14.2	Tumbling barrel (for < 50 g): 50 falls; after the test no damage		P
14.3	Impact test (for > 50 g): 10 blows:		N/A
	- height of fall: 7,5 cm		N/A
	- height of fall: 10 cm		N/A
	- height of fall: 20 cm		N/A
	- height of fall: 25 cm		N/A
	After the test, no damage and live parts shall not become accessible		N/A

15	TEMPERATURE RISE		P
	requirement: $\leq 45K$		P
	max measured temperature rise (K)	See appended table 15	P

16	RESISTANCE TO HEAT		P
16.1	Connecting devices are sufficiently resistant to heat		P
16.2	Heating cabinet test	See appended table 16.2	P
	After the test: no changes impairing further use and markings still legible		P

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IEC 60998-2-1:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
16.3	Ball-pressure test (IEC 60695-10-2) for parts necessary to retain current-carrying parts and parts of the earthing circuit in position	See appended table 16.3A	P
	Impression diameter not exceed 2 mm		P
17	CLEARANCES AND CREEPAGE DISTANCES		P
	Creepage distances, clearances and distances through sealing compound	See appended table 17	P
18	RESISTANCE OF INSULATING MATERIAL TO ABNORMAL HEAT AND FIRE		P
	Glow-wire test (clauses 4 to 10 of IEC 60695-2-10)	See appended table 18	P
	No visible flames and no sustained glowing or flame and glowing extinguished within 30 s		P
	No ignition of the tissue paper or scorching of the board		P
19	RESISTANCE OF INSULATING MATERIAL TO TRACKING		P
	Tracking test (IEC 60112): PTI 175 V, 50 drops, solution A	See appended table 19	P

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IEC 60998-2-1:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

10.104 TABLE: Clamping securement and damage to the conductor test							P
Model/type reference.....:					SF10XB-2		P
Torque (Nm).....:					0.2Nm		P
No of sample	Conductor cross-sectional area (mm ²)	Conductor type	Mass for conductor (kg)	Height H (mm)	Diameter of bushing hole (mm)		
1	1.0	Rigid / Flexible	0.4	300	6.5		P
2	1.0	Rigid / Flexible	0.4	300	6.5		P
3	1.0	Rigid / Flexible	0.4	300	6.5		P
Supplementary information:							
10.105 TABLE: Pull-out test							P
Model/type reference.....:					SF10XB-2		P
No of sample	Conductor cross-sectional area (mm ²)	Conductor type	Pull force (N)				
1	1.0	Rigid / Flexible	35				P
2	1.0	Rigid / Flexible	35				P
3	1.0	Rigid / Flexible	35				P
Supplementary information:							

13.3 TABLE: Insulation resistance							P
Model/type reference.....:					SF10XB-2		--
Smallest cross-sectional area (mm ²).....:					0.5		--
Largest cross-sectional area (mm ²).....:					1.0		--
Test voltage applied between				Measured (MΩ)		Required (MΩ)	
All clamping units together and the body				>100MΩ		≥5MΩ	
Each clamping unit and all others together				>100MΩ		≥5MΩ	
Supplementary information:							

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IEC 60998-2-1:2002			
Cl.	Requirement - Test	Result - Remark	Verdict
13.4	TABLE: Electric strength test		P
	Model/type reference.....:	SF10XB-2	P
	Rated insulation voltage (V).....:	24	P
	Test voltage applied between	Test voltage (V)	Flashover / breakdown (Yes/No)
	All clamping units together and the body	1250	No
	Each clamping unit and all others together	1250	No
Supplementary information:			

15	TABLE: Temperature rise		P
	Model/type reference.....:	SF10XB-2	P
	Terminal	<input type="checkbox"/> single <input checked="" type="checkbox"/> multiway	—
	T marking (°C).....:	<input type="checkbox"/> Yes (°C):	—
	Largest cross-sectional area (mm ²)	1.0	—
	Conductors.....:	Rigid / Flexible	—
	Rated connecting capacity (mm ²)	1.0	—
	Torque (Nm)	0.2Nm	—
	Test current (A)	6A	—
	Thermocouple Locations	max. temperature measured, (K)	max. temperature limit, (K)
	On conductor in the terminal	12.1	45
	Plastic material	11.6	45
Supplementary information:			

16.2	TABLE: Heating cabinet test				P
	Test temperature (°C)		<input checked="" type="checkbox"/> 85°C <input type="checkbox"/> T + 45		P
	Model/type reference	Sample 1	Sample 2	Sample 3	
	SF10XB-2	Pass	Pass	Pass	
Supplementary information:					

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IEC 60998-2-1:2002			
Cl.	Requirement - Test	Result - Remark	Verdict

16.3A	TABLE: Ball pressure test of insulating materials		P
	Test temperature (°C)	<input checked="" type="checkbox"/> 125 <input type="checkbox"/> T + 45	P

Part under test	Material designation / manufacturer	Impression diameter (mm)	
Terminal block material	/	1.2	P
Supplementary information:			

16.3B	TABLE: Ball pressure test of insulating materials		N/A
	Test temperature (°C)	<input type="checkbox"/> 70 <input type="checkbox"/> T + 40	N/A
Part under test	Material designation / manufacturer	Impression diameter (mm)	
--	--	--	--
Supplementary information:			

17	TABLE: Clearances and creepage distances				P
	Rated insulation voltage (V)	24			P
Clearance cl, creepage distance cr and distance through sealing compound tsc at/of:	Required cl, cr, tsc (mm)	Measured cl (mm)	Measured cr (mm)	Measured tsc (mm)	
Between clamping units	≥1.5	>1.5	≥1.5	>1.5	
Contacts-Plastic material	≥1.5	>1.5	≥1.5	>1.5	
Supplementary information:					

18	TABLE: Glow-wire test			P
Part under test	Material designation / manufacturer	Test temperature (°C)	Time of extinguish of flames and glowing, if any	
Terminal block material	/	850	flame extinguished immediately after removal.	
Supplementary information:				

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Cl.	Requirement - Test	Result - Remark	Verdict
19	TABLE: Tracking		P
	Part under test	Material designation / manufacturer	Test voltage (V)
	Terminal block material	/	175
Supplementary information:			
			Remarks
			Pass

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APPENDED TABLE					
Critical components					
Object / part no.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of Conformity
Terminal block material	Shenzhen Onlumi Technology Limited	SP003	PP	IEC 60998-2-1, IEC 60998-1	Test with appliance
Terminal	Shenzhen Onlumi Technology Limited	SP003	BRASS	--	--
Screw	Shenzhen Onlumi Technology Limited	SLOTTED	M3.0-M4.0	--	--

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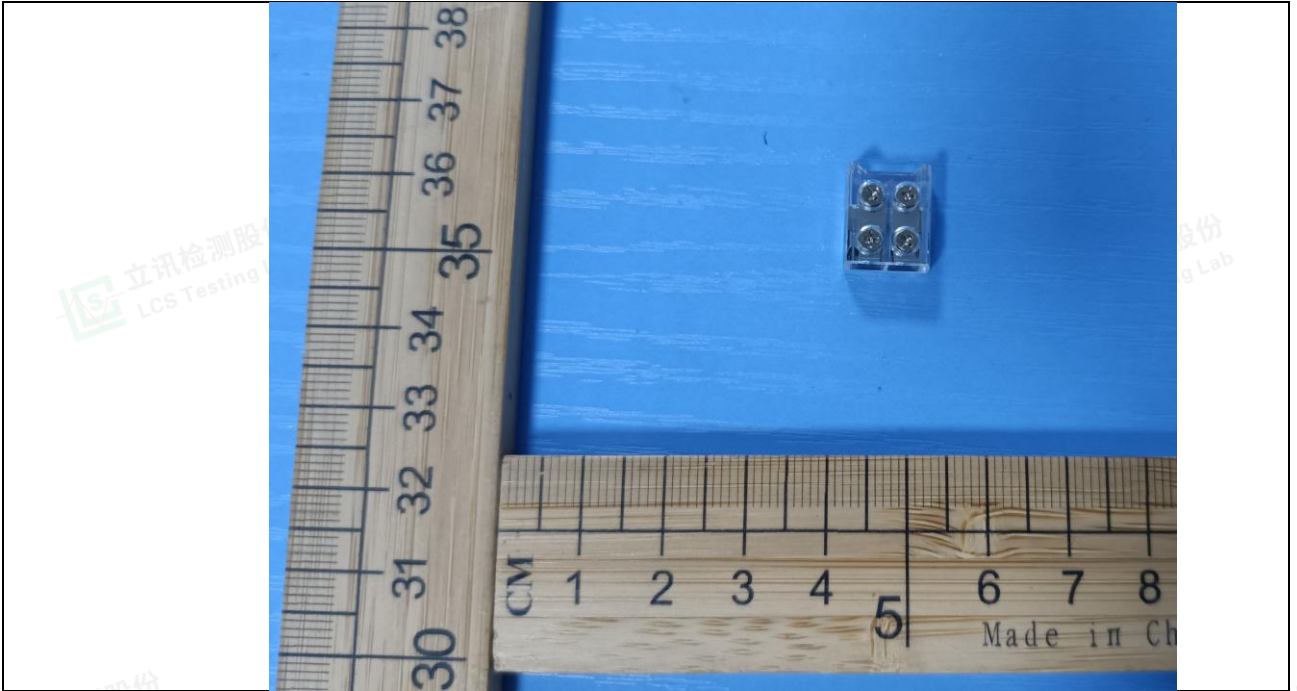


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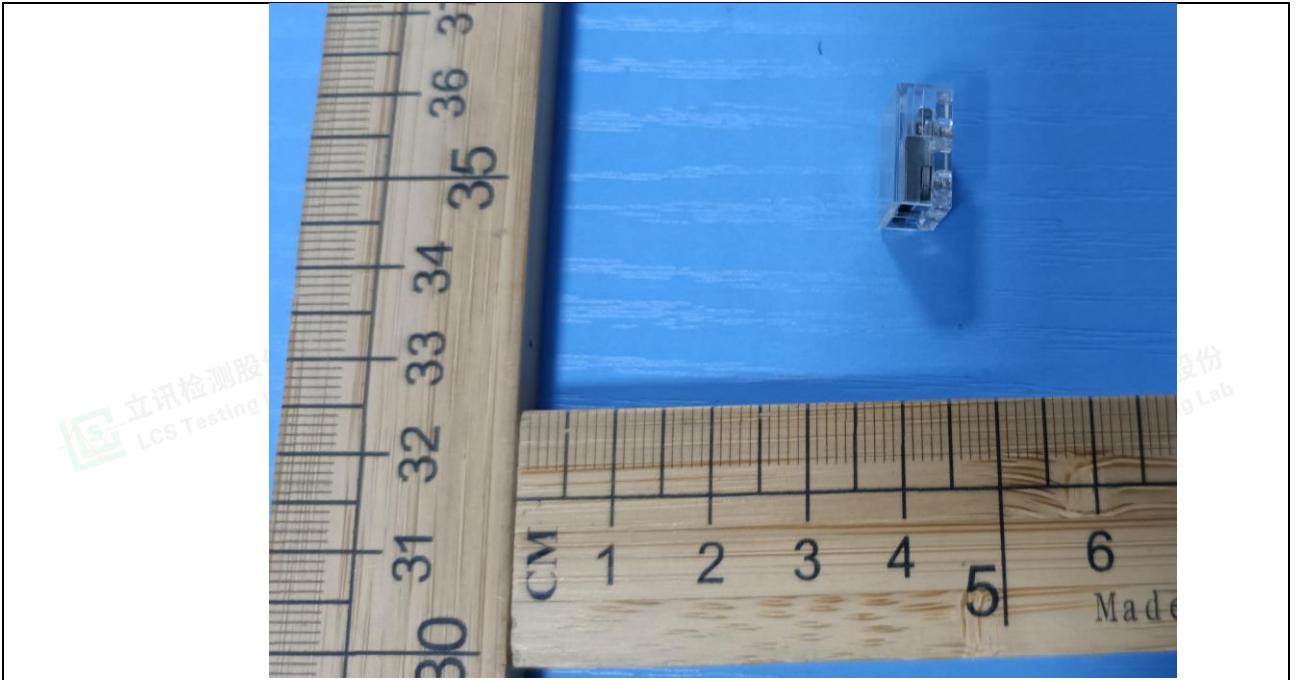


Attachment No. 1: photo documentation

Details of: External view



Details of: External view



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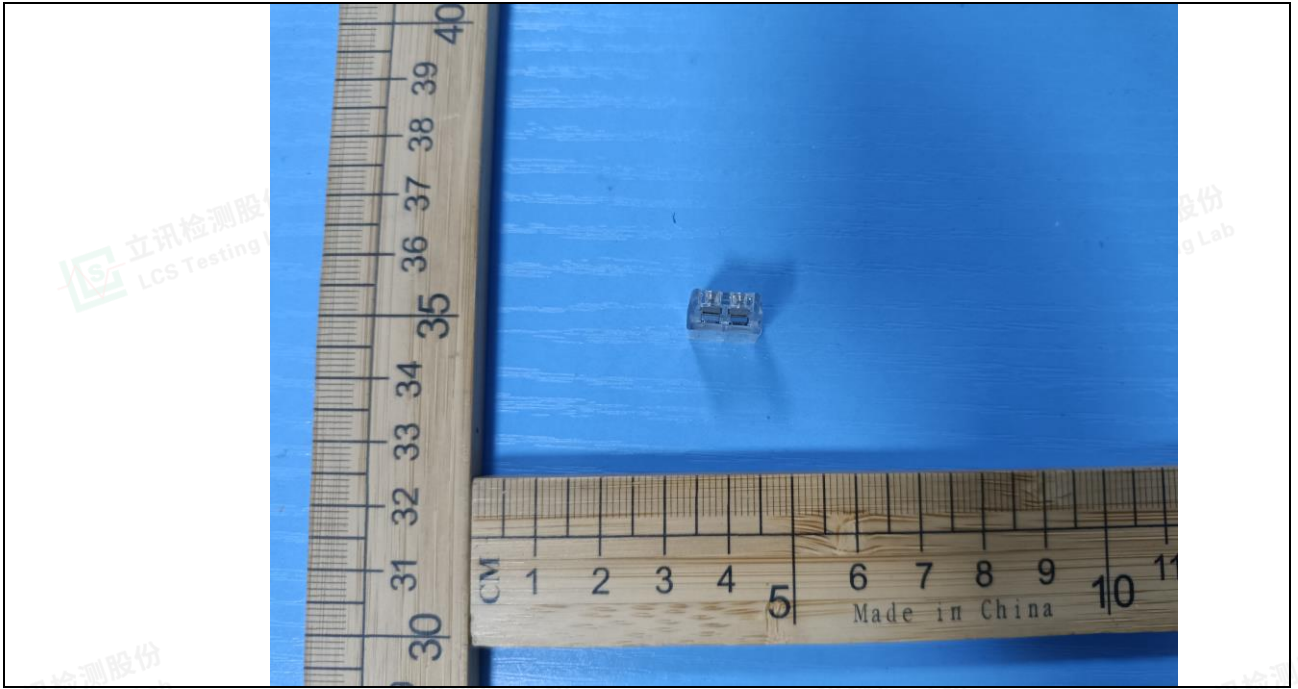


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Attachment No. 1: photo documentation

Details of: Internal view



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Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street,
Bao'an District, Shenzhen, Guangdong, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
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