



TEST REPORT IEC 60998-2-2 Connecting devices for low voltage circuits for household and similar purposes Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units	
Report Reference No.....:	LCS200305038AS
Date of issue.....:	March 19, 2020
Total number of page.....:	18 pages
Applicant's name.....:	Shenzhen Onlumi Technology Limited
Address.....:	Room 218, 2F, Building D, YouDingQiChuang Area, NO.62, Heping Road, Qinghua Community, Longhua District, Shenzhen, G.D., China
Test specification:	
Standard.....:	IEC 60998-2-2:2002 (see also IEC 60998-1:2002)
Test procedure.....:	CE-LVD
Non-standard test method.....:	N/A
Test Report Form No.....:	IEC60998_2_2B
Test Report Form(s) Originator.....:	DEKRA certification B.V.
Master TRF.....:	Dated 2013-02
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Test item description.....:	Beetle Clip LED Strip Connector
Trade Mark.....:	QIJIE
Manufacturer.....:	Shenzhen QIJIE Electronic Co., Ltd. 5F, 21th, Chuangye Road, Shilong Community, Shiyan, Baoan, Shenzhen, Guangdong, China
Model/Type reference.....:	BCN8XB-2, BCN8BB-2, BCN10XB-2, BCN10BB-2, WBCN8XB-2, WBCN8BB-2, WBCN10XB-2, WBCN10BB-2
Ratings.....:	24V $\overline{=}$, 5A

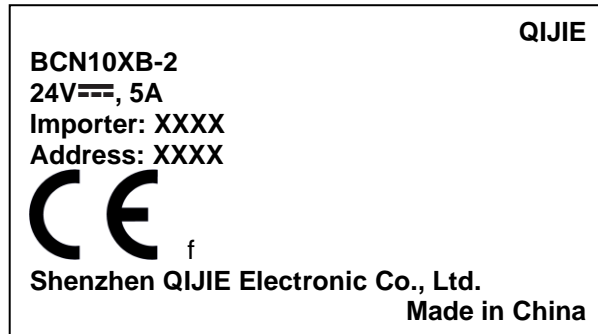
TRF No. IEC60998_2_2B

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

 Add: 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong, China
 Tel: +(86) 0755-8259 1330 | Fax: +(86) 0755-8259 1332 | E-mail: webmaster@lcs-cert.com | <http://www.lcs-cert.com>



Testing procedure and testing location:		
<input checked="" type="checkbox"/>	Testing Laboratory:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Testing location/ address.....:		101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong, China
Tested by	HL Chen / Test engineer	<i>HL Chen</i>
Reviewed by	Albert Lai / Project Director	
Approved by	Hart Qiu / Technical manager	
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 60998-2-2:2002 (see also IEC 60998-1:2002) EN 60998-1:2004, EN 60998-2-2:2004	Testing location: Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong, China	
Summary of compliance with National Differences		
List of countries addressed:		
<input checked="" type="checkbox"/> The product have evaluated the requirements of EN 60998-1:2004, EN 60998-2-2:2004.		

**Copy of marking plate:****The artwork below may be only a draft.****Remark:**

- 1) Representative markings of model: BCN10XB-2, markings of all models are identical except for model names.
- 2) The height dimension of CE mark should not less than 5mm.



Test item particulars:	
Number of terminals.....:	<input type="checkbox"/> single <input checked="" type="checkbox"/> multiway
Protection against electric shock.....:	<input type="checkbox"/> with <input checked="" type="checkbox"/> without
Means of fixing.....:	<input checked="" type="checkbox"/> with <input type="checkbox"/> without
Rated temperature.....:	<input checked="" type="checkbox"/> without T marking <input type="checkbox"/> with T marking (°C)
IP number.....:	IPX0
Type of terminals, screwless-type.....:	<input checked="" type="checkbox"/> universal <input type="checkbox"/> non-universal <input type="checkbox"/> push wire
Conductor type.....:	<input type="checkbox"/> rigid <input checked="" type="checkbox"/> flexible
Rated connecting capacity.....:	<input checked="" type="checkbox"/> 0.34mm ² <input checked="" type="checkbox"/> 0.5mm ² <input type="checkbox"/> 0.75mm ² <input type="checkbox"/> 1mm ² <input type="checkbox"/> 1.5mm ²
Conductor insulation.....:	<input checked="" type="checkbox"/> 2.0mm ² <input type="checkbox"/> 2.5mm ² <input type="checkbox"/> 4mm ² <input type="checkbox"/> 6mm ² <input type="checkbox"/> 10mm ² <input type="checkbox"/> 16mm ² <input type="checkbox"/> 25mm ² <input type="checkbox"/> 35 mm ²
Rated voltage (V ac / V dc).....:	<input type="checkbox"/> AC <input checked="" type="checkbox"/> DC
Classification of installation and use	Multiway terminal devices
Supply Connection	Screwless-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	2020-03-05
Date (s) of performance of tests	From 2020-03-05 to 2020-03-19
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(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.	



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 manufacturer

General product information:

1. All models are similar except for the model name, colour and width, all tests were conducted on model BCN10XB-2.
2. The text of the International Standard IEC 60998-2-2:2002 was approved as European Standard EN 60998-2-2:2004 without any modification.



IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

8	MARKING		P
8.1	On main part:		P
	a) rated connecting capacity (mm ²)	0.34-0.5	P
	b) rated insulation voltage (V)	24	P
	c) T marking (°C) (if > 40 °C or < -5 °C)		N/A
	d) type reference	See copy of marking plate	P
	e) manufacturer's or responsible vendor's name, trademark or identification mark.....	See copy of marking plate	P
	f) IP if > IP20		N/A
	Small devices: only d) and e) indicated on device		P
	All marks visible on smallest package unit		P
8.101	Type of acceptable conductor "s" "r" or "f"		P
8.102	Marking indicating the length of insulation to be removed before insertion of the conductor		P
8.2	Multiway terminal devices: at least two adjacent		P
8.3	When symbols are used they shall be as follow: V for volts mm ² or □ for square millimetres T for T-rating	See copy of marking plate	P
8.4	Marking: durable and easily legible; 15 s water; 15 s hexane		P

9	PROTECTION AGAINST ELECTRIC SHOCK		N/A
	Live parts not accessible		N/A

10	CONNECTION OF CONDUCTORS		P
10.1	Connecting devices allow correct connection of conductors		P
10.101	Connection or disconnection: use a general tool or simple insertion		P
	Disconnection operation other than a pull		P
10.102	Terminals accept two or more conductors of same or different nominal cross-sectional areas; see table 101 (as specified by manufacturer):		P
	Universal terminals shall accept rigid(solid or stranded) and flexible unprepared conductors		P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

	Non-universal terminals shall accept the types of conductors declared by the manufacturer		N/A
	Rated connecting capacity (mm ²)	0.34-0.5	P
	Suitable for connecting cross-sectional areas (mm ²)	0.34-0.5	P
10.103	Terminals accept rigid and flexible conductors (table 101), unless otherwise specified (see 8.1)		P
	Smallest diameter (mm); largest diameter (mm).....	1.1	P
	During the test: terminals show no damage		P
10.104	Terminals clamp the conductor without undue damage:		P
10.104.1	Connection/disconnection 5 times: smallest diameter (mm).....	0.9	P
	Connection/disconnection 5 times: largest diameter (mm).....	1.1	P
	After the test, terminal not damaged		P
10.104.2	Rated cross-sectional area (mm ²)	0.34-0.5	P
	Type	Flexible	P
	After the test, no wire of conductor escaped outside the terminal		P
10.105	Secureness test:		P
	during the test: the conductor does not slip out, no break near clamping unit and no damage	See appended table 10.105	P
10.106	Pull test:		P
	- during the test the conductor does not come out	See appended table 10.106	P

11	CONSTRUCTION		P
11.101	Contact pressure not transmitted via insulating material, unless there is sufficient resiliency		P
11.102	Insertion and disconnection, in accordance with manufacturer's instructions		P
	Openings clearly distinguishable		P
11.103	Terminals so constructed that:		P
	- each conductor is clamped individually		P
	- conductors can be connected or disconnected at same time or separately		P
	Possible to clamp maximum number of conductors		P

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
11.104	Inadequate insertion of conductor avoided		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
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)		N/A
	- flexible, cross-sectional area (mm ²).....	0.34-0.5	P
11.7	Fixing means of bases do not serve any other purpose		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 60529)	IP__	N/A
	After the test, electric strength test as 13.4, and by inspection	IP__	N/A
	no appreciable entry of water		N/A
13	INSULATION RESISTANCE AND ELECTRIC STRENGTH		N/A
13.1	Insulated connecting devices provided with adequate insulation resistance and electric strength		N/A



IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

13.2	Insulation between the connected conductors and the external surface is adequate for all the combinations of conductors		N/A
13.3	Insulation resistance measured 1 min after application of 500 V d.c.	See appended table 13.3	N/A
13.4	Electric strength test	See appended table 13.4	N/A

14	MECHANICAL STRENGTH		P
14.101	the test conductor, properly inserted into a clamping unit of the connection devices shall be allowed to be bent (deflected) in all 12 directions each of them differing from the adjacent directions by $30^{\circ} \pm 5^{\circ}$		P
	Deflection test (principle of test apparatus shown in figure 103a):		P
	- requirement: $\leq 2,5$ mV	See appended table 14.101	P
	max measured voltage drop (mV)		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: ≤ 45 K		P
	max measured temperature rise (K)	See appended table 15	P
15.101	192 temperature cycles test, each cycle with a duration of 1 h, with the test current as defined in Table 2 of Part I		P
	Cabinet temperature (°C)..... : <input checked="" type="checkbox"/> 40 <input type="checkbox"/> T-marking: ..°C		P
	Maximum voltage drop did not exceed 22,5 mV or 1,5 times 24 th cycle value	See appended table 15.101	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

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict
	After the test: no changes impairing further use and markings still legible		P
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	N/A
	Impression diameter not exceed 2 mm		N/A
	Ball-pressure test (IEC 60695-10-2) for parts not necessary to retain current-carrying parts and parts of the earthing circuit in position	See appended table 16.3B	P
	Impression diameter not exceed 2 mm		P
17	CLEARANCES AND CREEPAGE DISTANCES		N/A
	Creepage distances, clearances and distances through sealing compound	See appended table 17	N/A
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		N/A
	Tracking test (IEC 60112): PTI 175 V, 50 drops, solution A	See appended table 19	N/A

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IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

10.105	TABLE: Clamping securement and damage to the conductor test					P
	Model/type reference.....: BCN10XB-2					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	0.5	Flexible	0.3	260	6.5	P
2	0.5	Flexible	0.3	260	6.5	P
3	0.5	Flexible	0.3	260	6.5	P

Supplementary information:

10.106	TABLE: Pull-out test				P
	Model/type reference.....: BCN10XB-2				P
No of sample	Conductor cross-sectional area (mm ²)	Conductor type	Pull force (N)		
1	0.5	Flexible	20		P
2	0.5	Flexible	20		P
3	0.5	Flexible	20		P

Supplementary information:

13.3	TABLE: Insulation resistance			N/A
	Model/type reference.....: BCN10XB-2			--
	Smallest cross-sectional area (mm²) : 0.34			--
	Largest cross-sectional area (mm²) : 0.5			--
Test voltage applied between		Measured (MΩ)	Required (MΩ)	
All clamping units together and the body		--	--	
Each clamping unit and all others together		--	--	

Supplementary information:

13.4	TABLE: Electric strength test			N/A
	Model/type reference.....: BCN10XB-2			N/A
	Rated insulation voltage (V).....: 24V [~]			N/A



IEC 60998-2-2			
Clause	Requirement + Test	Result - Remark	Verdict

Test voltage applied between	Test voltage (V)	Flashover / breakdown (Yes/No)
All clamping units together and the body	--	--
Each clamping unit and all others together	--	--
Supplementary information:		

14.101	TABLE: Mechanical strength				P
	0,1 times the test current (A)	0.5			--
	smallest cross-sectional area (mm ²) 10.103	0.34			--
	force (N) (table 104)	0.09			--
	Distance (mm) (table 104)	100			--
	-screwless terminal number	1	2	3	--
	- voltage drop measured (mV) (1 st deflection)	0.9	0.8	1.1	--
	- voltage drop measured (mV) (2 nd deflection)	0.8	0.9	1.0	--
	- voltage drop measured (mV) (3 rd deflection)	1.1	1.0	0.8	--
	- voltage drop measured (mV) (4 th deflection)	0.9	0.9	0.8	--
	- voltage drop measured (mV) (5 th deflection)	1.0	1.1	0.8	--
	- voltage drop measured (mV) (6 th deflection)	1.1	1.0	1.1	--
	- voltage drop measured (mV) (7 th deflection)	1.1	0.9	1.1	--
	- voltage drop measured (mV) (8 th deflection)	0.8	1.1	0.8	--
	- voltage drop measured (mV) (9 th deflection)	1.1	1.1	1.0	--
	- voltage drop measured (mV) (10 th deflection)	0.8	1.1	0.8	--
	- voltage drop measured (mV) (11 th deflection)	1.0	1.1	1.1	--
	- voltage drop measured (mV) (12 th deflection)	1.1	0.9	1.1	--
	- requirement: ≤ 2,5 mV				--
	0,1 times the test current (A)	0.5			--
	Largest cross-sectional area (mm ²) 10.103	0.5			--
	force (N) (table 104)	0.09			--
	Distance (mm) (table 104)	100			--
	- screwless terminal number	1	2	3	--
	- voltage drop measured (mV) (1 st deflection)	0.8	0.9	0.9	--
	- voltage drop measured (mV) (2 nd deflection)	0.9	0.9	0.8	--
	- voltage drop measured (mV) (3 rd deflection)	0.6	0.8	0.7	--

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IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark			Verdict
	- voltage drop measured (mV) (4 th deflection)	0.8	0.9	0.6	--
	- voltage drop measured (mV) (5 th deflection)	0.7	0.7	0.9	--
	- voltage drop measured (mV) (6 th deflection)	0.8	0.7	0.8	--
	- voltage drop measured (mV) (7 th deflection)	0.9	0.7	0.8	--
	- voltage drop measured (mV) (8 th deflection)	0.8	0.6	0.7	--
	- voltage drop measured (mV) (9 th deflection)	0.9	0.8	0.7	--
	- voltage drop measured (mV) (10 th deflection)	0.9	0.6	0.9	--
	- voltage drop measured (mV) (11 th deflection)	0.9	0.6	0.8	--
	- voltage drop measured (mV) (12 th deflection)	0.9	0.6	0.8	--
	- requirement: ≤ 2,5 mV				--

15	TABLE: Temperature rise			P
	Model/type reference.....	BCN10XB-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)	0.5		—
	Conductors	Flexible		—
	Rated connecting capacity (mm ²).....	0.34-0.5		—
	Test current (A)	5		—
	Thermocouple Locations	max. temperature measured, (°C)	max. temperature limit, (°C)	
	On conductor in the terminal	15.4	45	
	Plastic material	8.9	45	
	Supplementary information:			

15.101	TABLE: Temperature-cycling test			P	
	Model/type reference	BCN10XB-2		P	
	Smallest cross-sectional area (mm ²).....	0.34		P	
	Test current (Table 2) (A).....	5		P	
	Measured voltage drop of:	Measured voltage drop (mV)			
		Sample 1	Sample 2	Sample 3	
	Flexible conductors (after 24 cycles)	5.2	5.5	4.5	P

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Flexible conductors (1,5 times 24 th cycle value)	6.5	6.7	7.9	P
Flexible conductors (after 192 cycles)	8.4	8.2	9.1	P
Largest cross-sectional area (mm ²)..... :	0.5			P
Test current (Table 2) (A)..... :	6			P
Measured voltage drop of:	Measured voltage drop (mV)			
	Sample 1	Sample 2	Sample 3	
Flexible conductors (after 24 cycles)	5.4	5.1	5.1	P
Flexible conductors (1,5 times 24 th cycle value)	6.9	7.1	7.0	P
Flexible conductors (after 192 cycles)	7.8	8.4	9.2	P
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
	BCN10XB-2	Pass	Pass	Pass
Supplementary information:				

16.3A	TABLE: Ball pressure test of insulating materials			N/A
	Test temperature (°C)..... :	<input type="checkbox"/> 125 <input type="checkbox"/> T + 45 =		N/A
	Part under test	Material designation / manufacturer	Impression diameter (mm)	
	Current carrying parts	/	--	--
Supplementary information:				

16.3B	TABLE: Ball pressure test of insulating materials			P
	Test temperature (°C)..... :	<input checked="" type="checkbox"/> 70 <input type="checkbox"/> T + 40 =		P
	Part under test	Material designation / manufacturer	Impression diameter (mm)	
	Plastic material	/	0.9	P
Supplementary information:				

17	TABLE: Clearances and creepage distances			N/A
	Rated insulation voltage (V)..... :	24V ⁼⁼⁼		N/A

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IEC 60998-2-2					
Clause	Requirement + Test	Result - Remark		Verdict	
	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	--	--	--	--
	Contacts-Plastic material	--	--	--	--
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	
Plastic material	/	650	No flame	
Supplementary information:				

19	TABLE: Tracking			N/A
Part under test	Material designation / manufacturer	Test voltage (V)	Remarks	
Current carrying parts	/	--	--	
Supplementary information:				

APPENDED TABLE					
Critical components					
Object / part no.	Manufacturer / trademark	Type / model	Technical data	Standard	Mark(s) of Conformity
Plastic material	WEIYUAN PLATICS CO.LTD	PP	PP	IEC/EN 60998-2-2, IEC/EN 60998-1	Test with appliance

TRF No. IEC60998_2_2B

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

Add: 101, 201 Building A and 301 Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, Guangdong, China
Tel: +(86) 0755-8259 1330 | Fax: +(86) 0755-8259 1332 | E-mail: webmaster@lcs-cert.com | <http://www.lcs-cert.com>

Attachment No.1

Photo Documentation

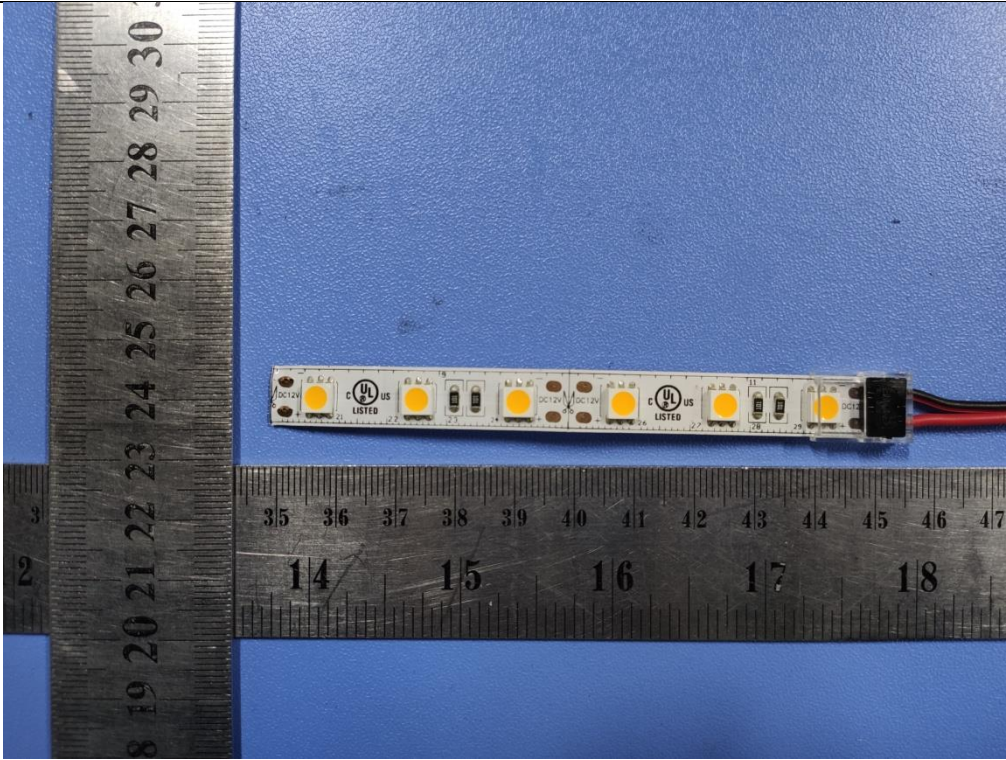


Figure 1 External View

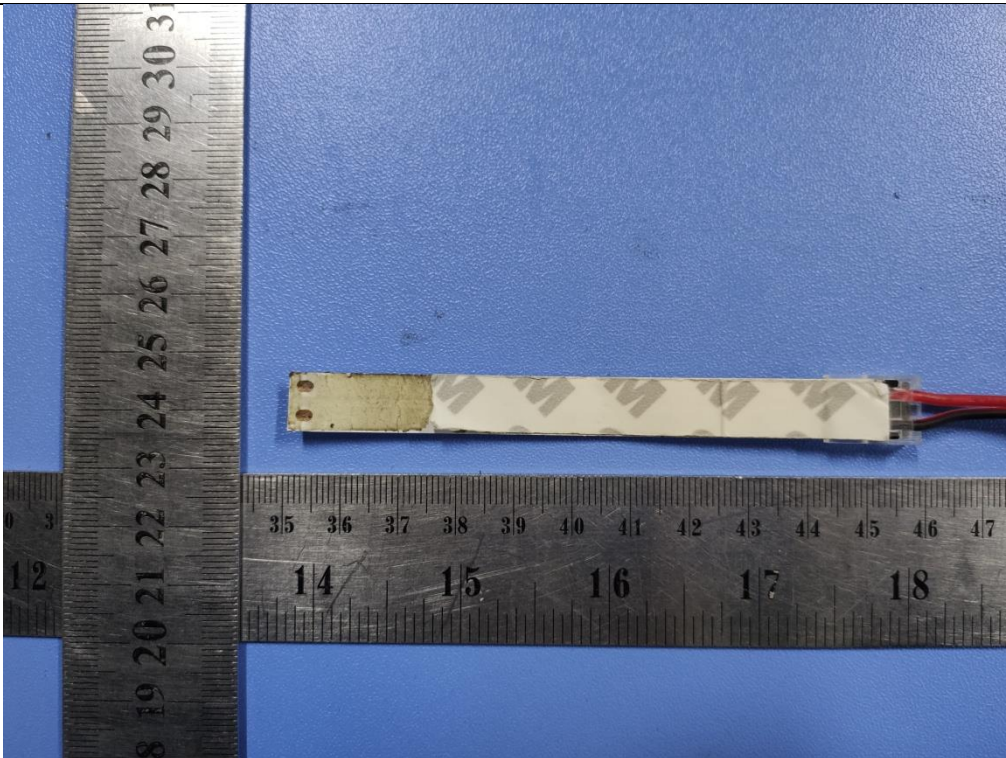


Figure 2 External View

Attachment No.1

Photo Documentation

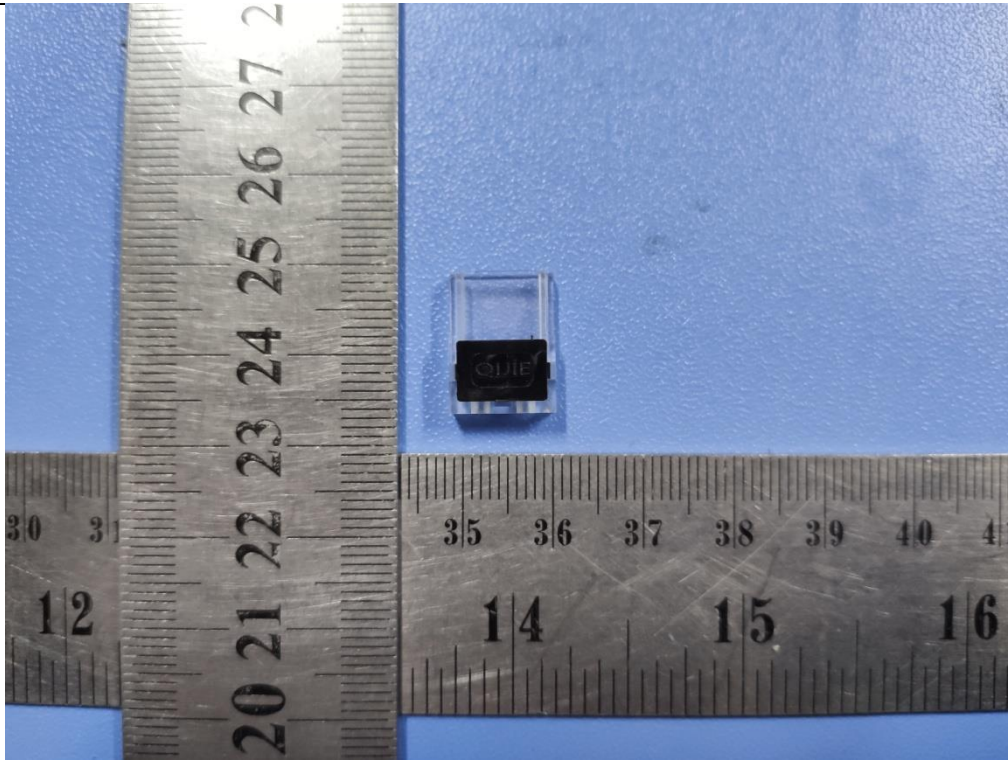


Figure 3 External View

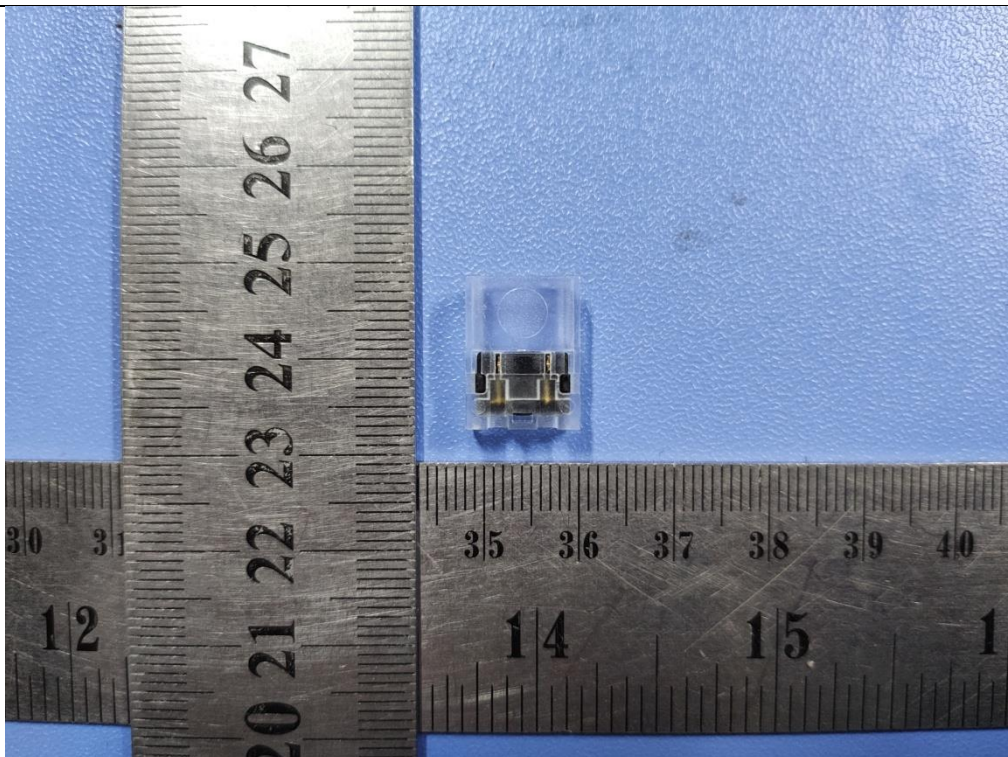


Figure 4 External View

Attachment No.1

Photo Documentation

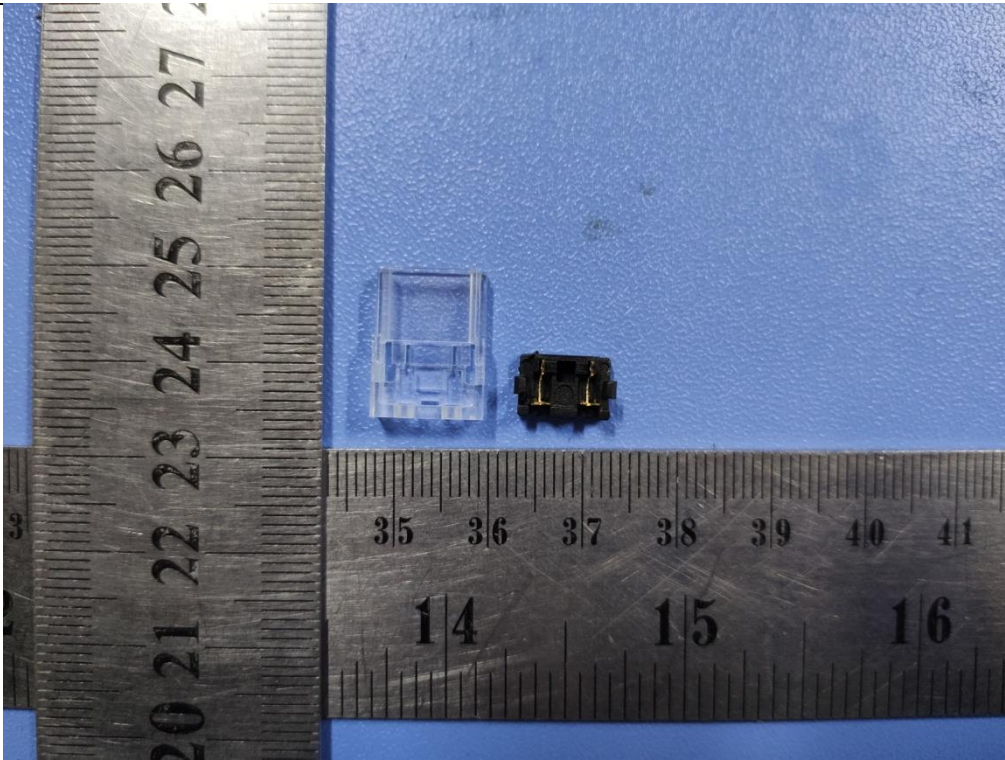


Figure 5 Internal View

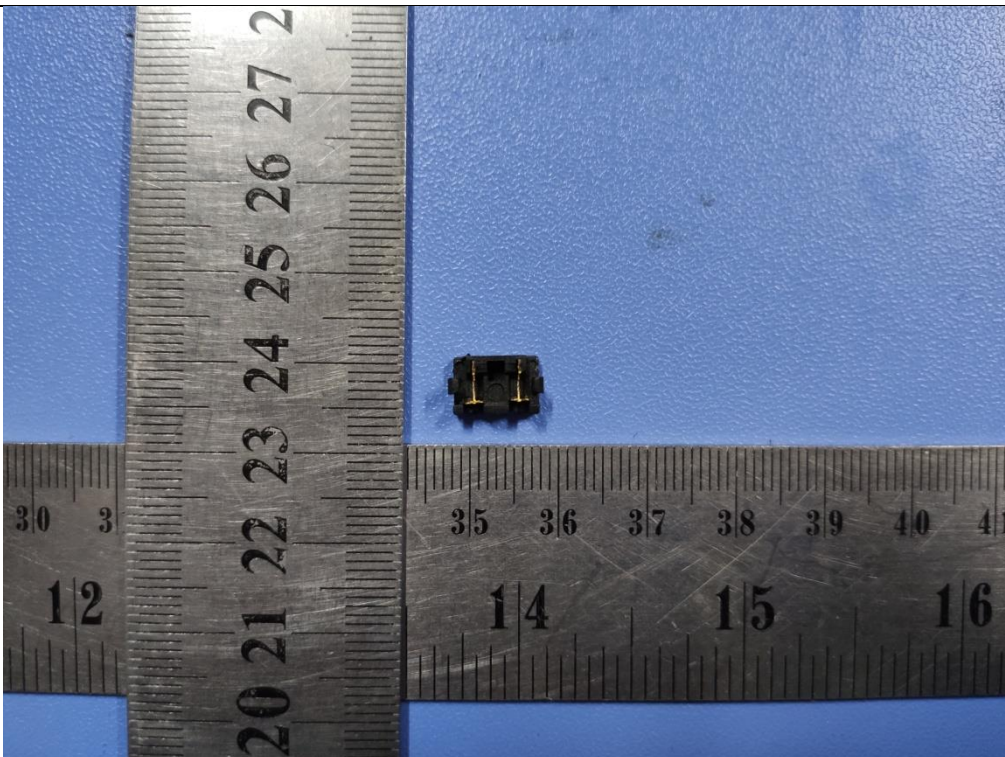


Figure 6 Internal View

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