

TEST REPORT

Report No.: BCTC2409678291S

Applicant: Cloud Electronics Limited

Product Name: CS surface mount speaker

Test Model: CS-S10B-IP

Tested Date: 2024-09-12 to 2024-09-18

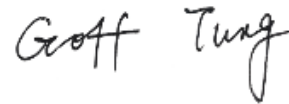
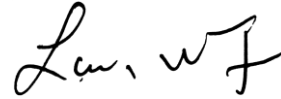
Issued Date: 2024-09-27

Shenzhen BCTC Testing Co., Ltd.



IP CODE Report EN 60529 Degrees of protection provided by enclosures	
Report Reference No.	BCTC2409678291S
Date of issue	2024-09-27
Total number of pages	14 pages
Testing laboratory	Shenzhen BCTC Testing Co., Ltd.
Address	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Applicant	Cloud Electronics Limited
Address	140 Staniforth Road, Sheffield, S9 3HF, United Kingdom
Standard	EN 60529:1991+A1:2000+A2:2013
Test procedure.....	Compliance with EN 60529:1991+A1:2000+A2:2013
Procedure deviation	N.A.
Non-standard test method	N.A.
Type of test object	CS surface mount speaker
Trademark	/
Model/type reference	CS-S10B-IP CS-S8B-IP, CS-S8W-IP, CS-S10W-IP, CS-S12B-IP, CS-S12W-IP
Manufacturer	Queen (Xiamen) Electronic Co., LTD.
Address	NO.3 FACTORY BUILDING,NO. 333 TONG FU RD., TONG'AN INDUSTRIAL ZONE, XIAMEN CITY, FUJIAN PROVINCE, CHINA
IP CODE	IP66
Test Result	P(Pass)

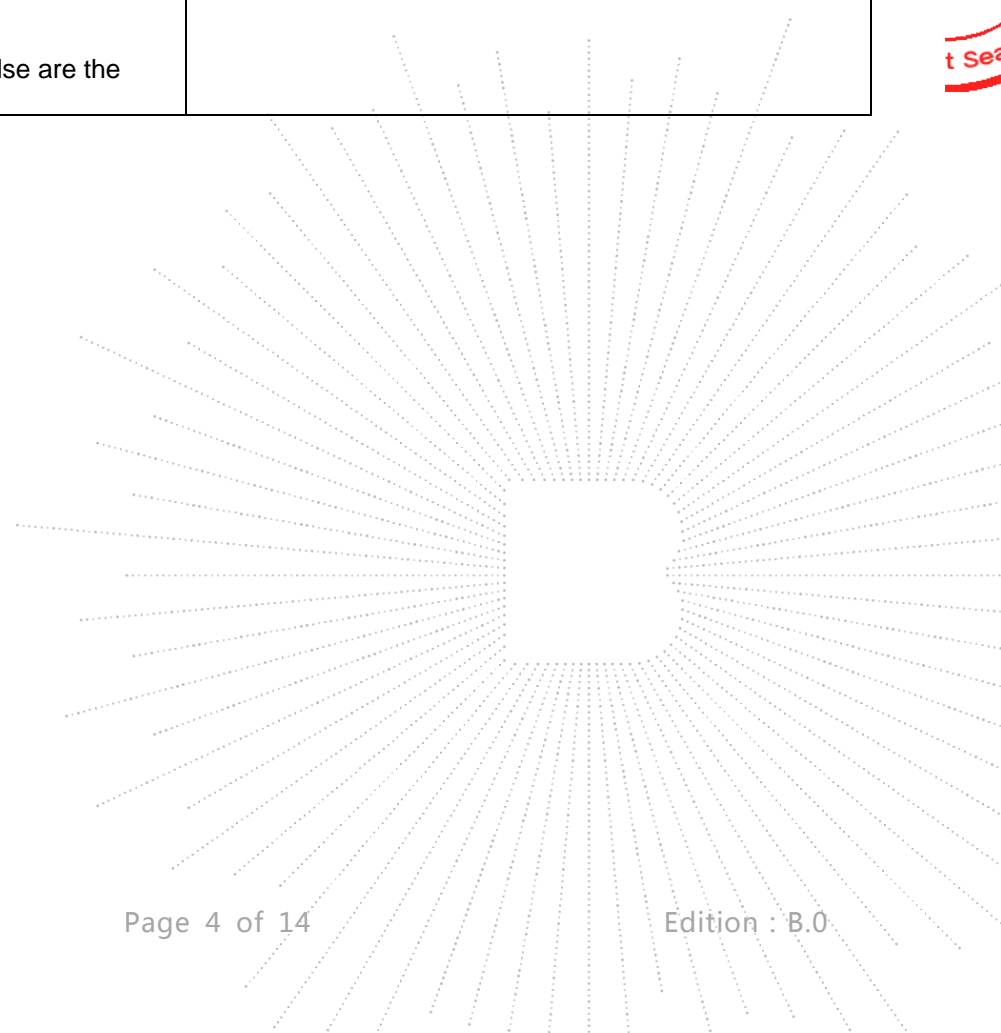


Testing procedure and testing location:**Testing Laboratory** : **Shenzhen BCTC Testing Co., Ltd.**Address..... : 1-2/F., Building B, Pengzhou Industrial Park, No.158,
Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an
District, Shenzhen, Guangdong, China**Tested by (name, function, signature)...** : Goff Tung
(Project Handler)**Approved by (name, function, signature)**
..... : Sam Wang
(Reviewer)

Possible test case verdicts :	
test case does not apply to the test object	: N(.A.)
test object does meet the requirement	: P(ass)
test object does not meet the requirement	: F(ail)
TESTING:	
Date of receipt of test item.....	: 2024-09-12
Date (s) of performance of tests.....	: 2024-09-12 to 2024-09-18

General remarks:	
<p>"(see remark #)" refers to a remark appended to the report.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p>Full test on model CS-S10B-IP.</p> <p>Except for model names, everything else are the same.</p>	<p>Attached with: Photo</p>

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EN 60529			
Clause	Requirement - Test	Result - Remark	Verdict
5	Degrees of protection against access to hazardous parts and against solid foreign objects indicated by the first characteristic numeral		P
5.1	Protection against access to hazardous parts		P
	First characteristic numeral is 6		P
5.2	Protection against access solid foreign objects		P
	First characteristic numeral is 6		P

6	Degrees of protection against ingress of water indicated by the second characteristic numeral		P
	Second characteristic numeral is 6 Protected against powerful water jets	Water projected in powerful jets against the enclosure from any direction shall have no harmful effects	P
10	Marking		P
	The requirements for marking shall be specified in the relevant product standard. Where appropriate, such a standard should also specify the method of marking which is to be used when - one part of an enclosure has a different degree of protection to that of another part of the same enclosure; - the mounting position has an influence on the degree of protection; -the maximum immersion depth and time are indicated.		P
11	General requirements for tests		P
11.1	Atmospheric conditions for water or dust Tests: Temperature range: Relative humidity: 25% to 75% Air pressure: 15 °C to 35 °C 86 kPa to 106 kPa (860 mbar to 1 060 mbar).		P
11.2	Test samples The tests specified in this standard are type tests.		P

12	Tests for protection against access to hazardous parts indicated by the first characteristic numeral		P
12.1	Access probes The test wire of 1,0 mm shall not penetrate and adequate clearance shall be kept		P
12.2	Test conditions For tests on low-voltage equipment, a low-voltage supply (of not less than 40 V and not more than 50 V) in series with a suitable lamp should be connected between the probe and the hazardous		P

	<p>parts inside the enclosure. Hazardous live parts covered only with varnish or paint, or protected by oxidation or by a similar process, are covered by a metal foil electrically connected to those parts which are normally live in operation.</p> <p>The signal-circuit method should also be applied to the hazardous moving parts of high-voltage equipment. Internal moving parts may be operated slowly, where this is possible.</p>		
12.3	Acceptance conditions: The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts.		P

13	Tests for protection against solid foreign objects indicated by the first characteristic numeral		P
13.1 & 13.2	Test means & Test conditions Test means and the main test conditions are given in Table VII		P
13.3	Acceptance conditions for first characteristic numerals 1,2,3,4 The protection is satisfactory if the full diameter of the probe specified in Table VII does not pass through any opening.		N
13.4	Dust test for first characteristic numerals 5 and 6 The test is made using a dust chamber incorporating the basic principles shown in figure 2 whereby the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50µm and the nominal width of a gap between wires 75µm. The amount of talcum powder to be used is 12kg per cubic metre of the test chamber volume. It shall not have been used for more than 20 tests.		P

14	Tests for protection against water indicated by the second characteristic numeral		P
14.1	Test means & Test conditions Test means and the main test conditions are given in Table VIII		P
14.2	Test conditions		P
14.2.6	Test for second characteristic numeral 6: with the 12.5 mm nozzle The test is made by spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as shown in Figure 6. The conditions to be observed are as follows: <ul style="list-style-type: none"> — internal diameter of the nozzle: 12.5 mm; delivery rate: 100 l/min ±5%; — water pressure: to be adjusted to achieve the specified delivery rate; — core of the substantial stream: circle of 		P

	<p>approximately 40 mm diameter at 2.5 m distance from nozzle;</p> <ul style="list-style-type: none"> — test duration per square metre of enclosure surface area likely to be sprayed:1 min; — minimum test duration:3 min; — distance from nozzle to enclosure surface: between 2.5 m and 3 m. 		
14.3	<p>Acceptance conditions</p> <p>After testing in accordance with the appropriate requirements of 14.2.5 the enclosure shall be inspected for ingress of water.</p> <p>It is the responsibility of the relevant Technical Committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any.</p> <p>In general, if any water has entered, it shall not:</p> <ul style="list-style-type: none"> -be sufficient to interfere with the correct operation of the equipment or impair safety; - deposit on insulation parts where it could lead to tracking along the creepage distances; - reach live parts or windings not designed to operate when wet; - accumulate near the cable end or enter the cable if any. <p>If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.</p> <p>For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.</p>	No ingress of water	P
ZA	<p>ANNEX ZA (NORMATIVE)</p> <p>Other International Publications quoted in this standard with the references of the relevant European Publications</p>		—
	<p>When the International Publication as been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.</p>	(EN 60529)	P

Photo:

EUT Photo 1



EUT Photo 2



SPINLIEN A
NAILIEN A

EUT Photo 3



EUT Photo 4



BCTC
B
AP
Re

EUT Photo 5



EUT Photo 6



EUT Photo 7



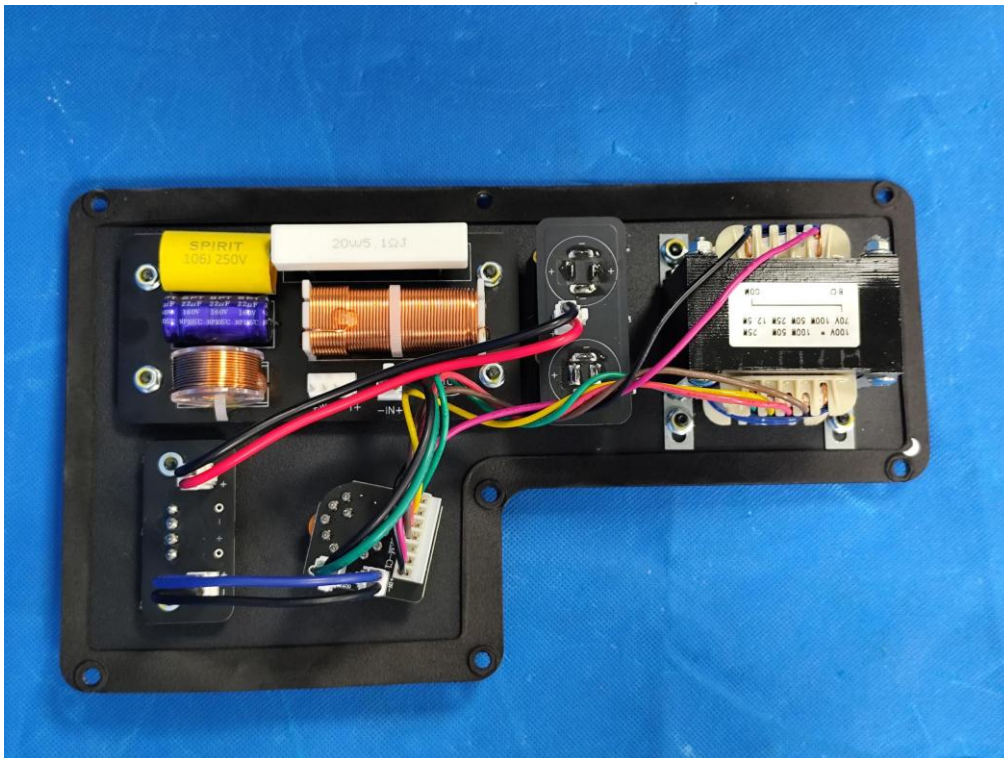
EUT Photo 8



EUT Photo 9



EUT Photo 10



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EUT Photo 11



EUT Photo 12



STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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