

Test Report



Report No. A2220001203101

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Company Name HUADING GROUP CO., LIMITED
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HANGZHOU CITY , ZHEJIANG PROVINCE, THE PEOPLE'S REPUBLIC
OF CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name PRINTED CIRCUIT BOARDS
Type 01771320-04-F 45174958 40 P2L014430A1 HDC2111311 HASL RoHS
Lot No. 4621
Material FR4
Sample Received Date Jan. 4, 2022
Testing Period Jan. 4, 2022-Jan. 21, 2022

Test Requested

No.	Test Item
1	50W (20 mm) Vertical Burning Test; V-0, V-1, or V-2

Test Result(s): Please refer to the following pages.

Approved by Wesley Mao

Date Jan. 24, 2022

Wesley Mao
Approved Signatory
Centre Testing International Corporation
(Hangzhou) Co., Ltd.

No.RECDB0D68A
Room 105,Building 1,No.600,N0.21 Street, Baiyang Road, Hangzhou
Economic & Technological Development Zone Hangzhou, China;



CTI 华测检测 Test Report

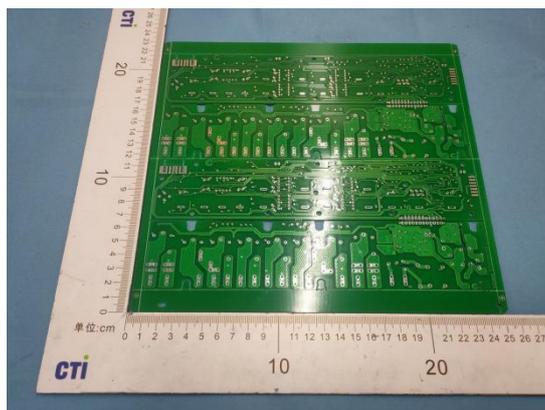
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Tested Sample(s)

Sample No.	Sample Name
A2220001203101001	PRINTED CIRCUIT BOARDS

Sample Photo(s)



A2220001203101001

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Test Item: 50W (20 mm) Vertical Burning Test; V-0, V-1, or V-2**1. Test Equipment**

Equipment Name	Model
Horizontal and vertical burning tester	UL94-X

2. Environmental Conditions

Temperature: 21.2°C; Humidity: 57%RH

3. Test Standard: UL 94-2018**4. Test Result(s)****Sample sizes** 125mm×13mm×1.7mm**Condition**

Condition 1 in environment of (23±2)°C and humidity of (50±5)%RH for 48h.

Condition 2 in a 70°C oven for 168h, then a calcium chloride desiccators for at least 4h to cool to room temperature.

Test Procedure: Flame height:(20±1)mm, Apply the flame centrally to the middle point of the bottom edge of the specimen so that the top of the burner is (10±1)mm below that point of the lower end of the specimen, and maintain it at that distance for (10±0.5)s. After the application for (10±0.5)s, immediately withdraw the burner at a rate of approximately 300mm/sec, to a distance at least 150mm away from the specimen and measure the afterflame time t_1 . As soon as afterflaming of the specimen ceases, immediately place the burner again under the specimen for an additional (10±0.5)s. After that, immediately remove the burner at a rate of approximately 300mm/sec to a distance of at least 150mm from the specimen and measure the afterflame time t_2 and the afterglow time t_3 .

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Test Criteria

Criteria conditions	V-0	V-1	V-2
Afterflame time for each individual specimen t_1 or t_2	$\leq 10s$	$\leq 30s$	$\leq 30s$
Total afterflame time for any condition set (t_1 plus t_2 for the 5 specimens)	$\leq 50s$	$\leq 250s$	$\leq 250s$
Afterflame plus afterglow time for each individual specimen after the second flame application (t_2+t_3)	$\leq 30s$	$\leq 60s$	$\leq 60s$
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	Yes

Results

Sample No.	Condition 1					Condition 2				
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Afterflame time t_1 , s	7	4	6	7	7	7	6	8	6	7
Afterflame time t_2 , s	0	2	0	0	0	0	0	2	2	3
Afterglow time t_3 , s	1	1	0	0	0	1	1	0	0	0
Total afterflame time, s	33					41				
t_2+t_3 , s	1	3	0	0	0	1	1	2	2	3
Afterflame or afterglow of any specimen up to the holding clamp	No	No	No	No	No	No	No	No	No	No
Flaming particles or drops	No	No	No	No	No	No	No	No	No	No
Cotton indicator ignited by flaming particles or drops	No	No	No	No	No	No	No	No	No	No

Evaluation

The combustion performance of the sample meet the requirement of V-0.

Statement: The test results relate only to the behaviour of the test specimens under the conditions of this test and that these results shall not be used to infer the fire hazards of the materials in other forms or under other fire conditions.

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Sample Photo(s) after the test



*** End of Report ***

Statement:

- 1.This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2.The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3.The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4.Without written approval of CTI, this report can't be reproduced except in full;
- 5.In case of any discrepancy between the English version and Chinese version of the testing reports(if generated), the Chinese version shall prevail.

