

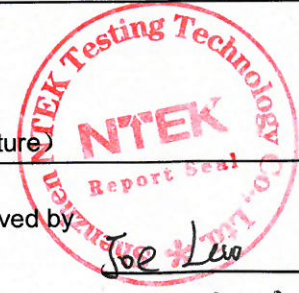


# TEST REPORT

<b>NAME OF SAMPLE</b>	LED display module
<b>TRADE MARK</b>	
<b>Model No. / Spec.</b>	M1.5, M1.2, M1.9, M1.5A, M1.2A, M1.9A
<b>MANUFACTURER</b>	Ledman Optoelectronic HZ Co., Ltd
<b>CLIENT</b>	Ledman Optoelectronic Co., Ltd
<b>TEST CATEGORY</b>	Commissioned test
<b>TEST ITEM</b>	Performance test

<b>Shenzhen NTEK Testing Technology Co., Ltd.</b> <b>Test Report</b>			
Sample Name	LED display module	Trademark	
MANUFACTURER	Ledman Optoelectronic HZ Co., Ltd	Sampling Models	M1.5, M1.2, M1.9, M1.5A, M1.2A, M1.9A
CLIENT	Ledman Optoelectronic Co., Ltd	Sampling Method	Sample from client
Sample quantity	1pcs	Date of manufacture	----
Date of Sampling	----	Date of Delivering	2020-02-24
Date of test	2020-02-24 to 2020-03-10	Lab Environment	23.9°C, 67.6%RH
Sample Description: - Sample quantity: 1pcs and cut into qualified 10pcs the sample. - Specimen number: 1-1#, 1-2#, 1-3#, 1-4#, 1-5#, 1-6#, 1-7#, 1-8#, 1-9#, 1-10#. The samples 1-1#-1-5#, 2-1#-2-5# were then pretreated at(23±2°C, 50±5%RH, 48hours): The samples 1-6#-1-10#, 2-6#-2-10# were then pretreated at (70±1°C, 168hours, room temperature for 4 hours) .			
Test Item: Performance test.			
Test Standard (or Procedure): UL94-2013 《Tests for Flammability of Plastic Materials for Parts in Devices and Appliances》			
Inspection Overview: In accordance with the standard clause 8, the sample was tested for a combustibility test in a total performance test, see the next page.			
Test Conclusion: Samples were complied with V-0 according standard.			
Tested by <u>Nosy Huang</u>		Reviewed by <u>Seven Yin</u>	
Date <u>2020-03-13</u>		Date <u>2020-03-13</u>	
Approved by <u>Joe Luo</u>			
Date <u>2020-03-13</u>			



UL94-2013			
Terms	Requirement - Test		Verdict
8	Plastic materials testing		P
8.1	test criteria		P
8.2	laboratory apparatus		P
8.3	test sample	Thickness: 2.2mm; Sample length: 125 ±5mm; width: 13.0 ±0.5mm	P
8.4	test condition		P
8.5	Test Procedure		see the form below
8.6	test result		see the form below

UL94-2013			
Terms	Requirement - Test		Verdict
8.5	test method		—
8.6	Eligibility criterion		P
--	sample 1-1#	t <sub>1</sub> (s)	0
	sample 1-1#	t <sub>2</sub> (s)	2
	sample 1-1#	t <sub>3</sub> (s)	1
			t <sub>1</sub> /t <sub>2</sub> =0s/1s≤10s
			t <sub>2</sub> +t <sub>3</sub> =3s≤30s
			t <sub>1</sub> /t <sub>2</sub> ≤10s; t <sub>1</sub> +t <sub>2</sub> ≤50s(Total: 5 specimens); t <sub>2</sub> +t <sub>3</sub> ≤30s; Afterflame or afterglow of any specimen not up to the holding clamp; Cotton indicator was not ignited by flaming particles or drops
			From the top into the 6mm, the length of the downward direction, the flame height was 20 + 1mm, from the top of the lower burner samples 10 + 1mm. 10 + 0.5s flame first applied, remove and record the appliance afterflame t <sub>1</sub> ; afterflame stops once again burning 10 + 0.5s, after removing, recorded afterflame t <sub>2</sub> and afterglow t <sub>3</sub> .
			—

--	sample 1-2#	$t_1$ (s)	1	$t_1/t_2=1s/2s\leq 10s$	—
	sample 1-2#	$t_2$ (s)	2	$t_2+t_3=3s\leq 30s$	—
	sample 1-2#	$t_3$ (s)	1		—
--	sample 1-3#	$t_1$ (s)	0	$t_1/t_2=0s/2s\leq 10s$	—
	sample 1-3#	$t_2$ (s)	2	$t_2+t_3=3s\leq 30s$	—
	sample 1-3#	$t_3$ (s)	1		—
--	sample 1-4#	$t_1$ (s)	1	$t_1/t_2=1s/2s\leq 10s$	—
	sample 1-4#	$t_2$ (s)	2	$t_2+t_3=2s\leq 30s$	—
	sample 1-4#	$t_3$ (s)	0		—
--	sample 1-5#	$t_1$ (s)	2	$t_1/t_2=2s/2s\leq 10s$	P
	sample 1-5#	$t_2$ (s)	2	$t_1+t_2=14s\leq 50s$	
	sample 1-5#	$t_3$ (s)	1	(Total: 5 specimens) $t_2+t_3=3s\leq 30s$	
--	sample 1-6#	$t_1$ (s)	0	$t_1/t_2=0s/1s\leq 10s$	—
	sample 1-6#	$t_2$ (s)	1	$t_2+t_3=1s\leq 30s$	—
	sample 1-6#	$t_3$ (s)	0		—
--	sample 1-7#	$t_1$ (s)	1	$t_1/t_2=1s/1s\leq 10s$	—
	sample 1-7#	$t_2$ (s)	1	$t_2+t_3=1s\leq 30s$	—
	sample 1-7#	$t_3$ (s)	0		—
--	sample 1-8#	$t_1$ (s)	2	$t_1/t_2=2s/3s\leq 10s$	—
	sample 1-8#	$t_2$ (s)	3	$t_2+t_3=4s\leq 30s$	—
	sample 1-8#	$t_3$ (s)	1		—
--	sample 1-9#	$t_1$ (s)	1	$t_1/t_2=1s/1s\leq 10s$	—
	sample 1-9#	$t_2$ (s)	1	$t_2+t_3=1s\leq 30s$	—
	sample 1-9#	$t_3$ (s)	0		—
--	sample 1-10#	$t_1$ (s)	2	$t_1/t_2=2s/1s\leq 10s$	P
	sample 1-10#	$t_2$ (s)	1	$t_1+t_2=13s\leq 50s$	
	sample 1-10#	$t_3$ (s)	1	(Total: 5 specimens) $t_2+t_3=2s\leq 30s$	

Remark: 1-1#-1-10# There was no burnout in the test, and the cotton was not ignited.

Note:  $t_1$ : The residual flame time after the first flame;  
 $t_2$ : The residual flame time after the second flame is applied;  
 $t_3$ : After more than second times on fire burning time.



EUT PHOTO

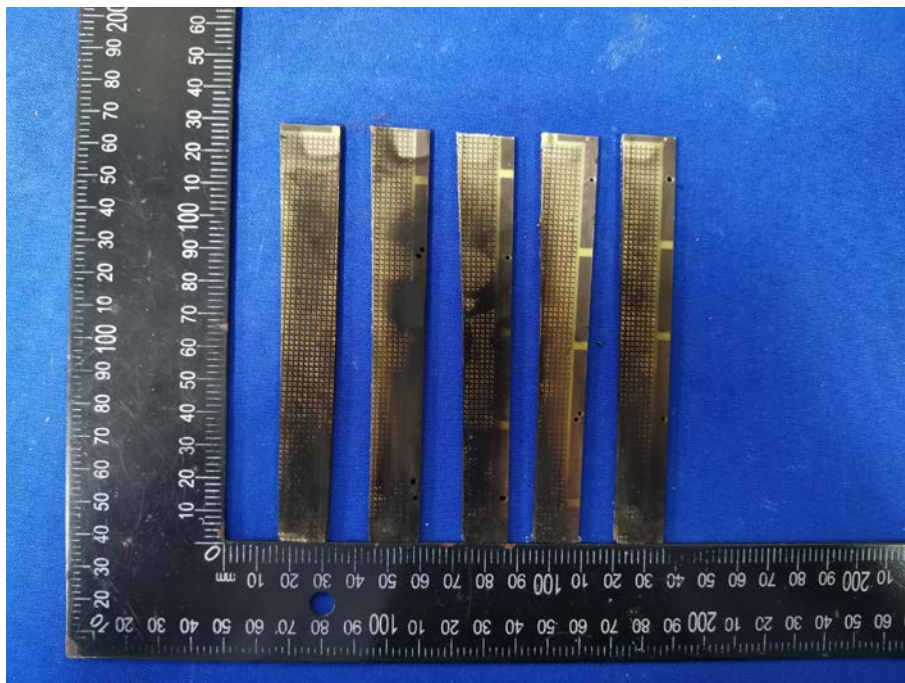


Fig.1



Fig.2 (Test in)

EUT PHOTO



Fig.3 (Test after)

### Main apparatus for measuring

NO.	Name of instrument and equipment	model	Numbered	The manufacturer	validity
1	Horizontal Vertical Flame Tester	HS-RSJ-5	LSS-219	Heson	2020/05/12
2	Digital Caliper	110-020	LSS-066	SMCT	2020/04/09
3	Oven	JC101-3A	LSS-001	Nantong Jiacheng	2020/04/15
4	Temperature and Humidity Recorder	DWL-20	LSS-283	YUWESE	2020/05/22
5	wall clock	--	LSS-240	POLARIS	2020/05/04

Note: the above instruments and equipment are in the metrological verification cycle.

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## DECLARATION

1. For those who will disagree to the test results of this report, please inform us in writing within 15 days upon receiving the report.
2. The test results are only valid to the product sample delivered for the tests.
3. The test report is invalid with unilateral amendments, and also invalid without signatures of the tester and approver.
4. The test report is invalid without the chop of "special seal for testing"
5. Without the written consent of this laboratory, this report cannot be copied in any form. If copying is consented, the chop of "special seal for testing" should also be made on the copies.
6. For those items marked with "\*", the tests are sub-contracted items.
7. The remaining product sample(s) should be retrieved in three months upon receiving this test report. If not, we will deal with it/them by ourselves.
8. The test results or data in this report will be used only for education, scientific research, enterprise product development and internal quality control or other purposes.

Company: Shenzhen NTEK Testing Technology Co., Ltd.  
Address: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street,  
Bao'an District, Shenzhen 518126 P.R. China  
P.C.: 518126  
TEL: +86-755-6115 6588      FAX: +86-755-6115 6599  
FAX: 0755-61156599  
Web Site: [www.ntek.org.cn](http://www.ntek.org.cn)  
Complaint TEL: +86-755-6115 6566      Complaint Email: [complaint@ntek.org.cn](mailto:complaint@ntek.org.cn)