



1. Product Information

Customer :

Product Description: AD-0037

Sample Q'ty: 1pc.

Testing Period: Jun.28.2018 ~ Jul.7.2018

2. Test Required

Test Purpose: This project is module test of AD Board.

Model type is TWS AD-0037 Test items

| Items | Test Date | Q'ty | Serial No. | Test Result |
|--|-------------|------|------------|-------------|
| Low Temperature Operating Test (-20°C, 24hrs) | 07/05~07/06 | 1 | 1752260227 | Pass |
| Hi-Temperature & Humidity Operating Test (70°C 85%RH, 24hrs) | 07/07~07/08 | 1 | 1752260227 | Pass |
| Hi-Temperature Operating Test (70°C, 24hrs) | 07/06~07/07 | 1 | 1752260227 | Pass |

3. Low Temperature Operating Test

3.1 Test Equipment

| Name | Brand | Model |
|--|-------------|------------------|
| Programmable Temperature & Humidity Chamber | Giant Force | GTH-800-40-CP-AR |

3.2 Lab environmental conditions

Ambient temperature: 25±3°C

Relative humidity: 55±20%RH

3.3 Checklist before the test

3.3.1 Functions Check



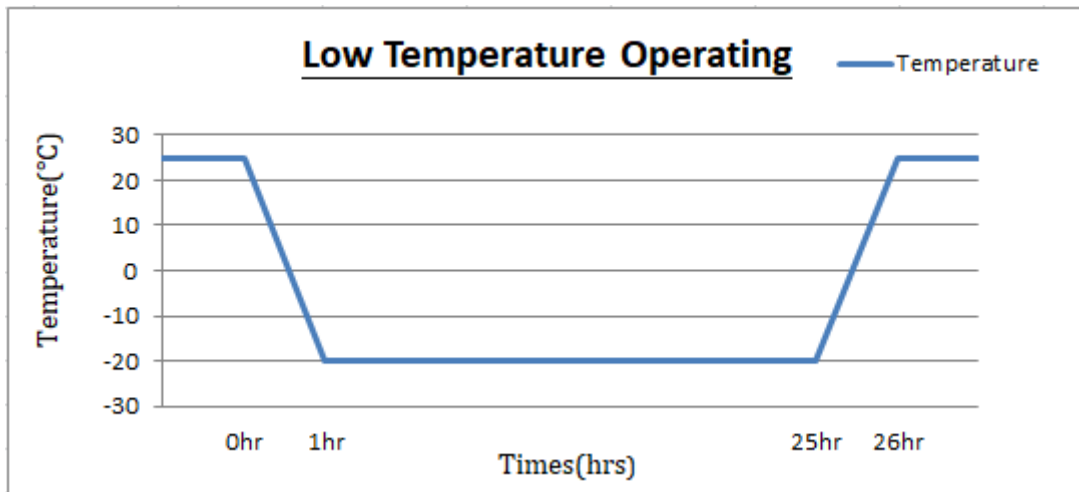
3.3.2 Check result

| Serial No. | Function Check |
|---------------------|----------------|
| 1752260227 | Pass |
| Description: | |



4. Test method & Specification

Test Specification: Reference IEC68-2-1 Test Ad
Test Condition: Operation test
Low temperature: -20°C
Exposure time: 24hrs
Transfer time: 2hrs
Total test time: 26hrs
Inspection: After leaving for 24hours at room temperature.



5. Checklist after the test

5.1 Function test



5.2 Check result

| Serial No. | Function Check |
|---|----------------|
| 1752260227 | Pass |
| Description: No change in function. | |

6. Hi-Temperature & Humidity Operating test

6.1 Test Equipment

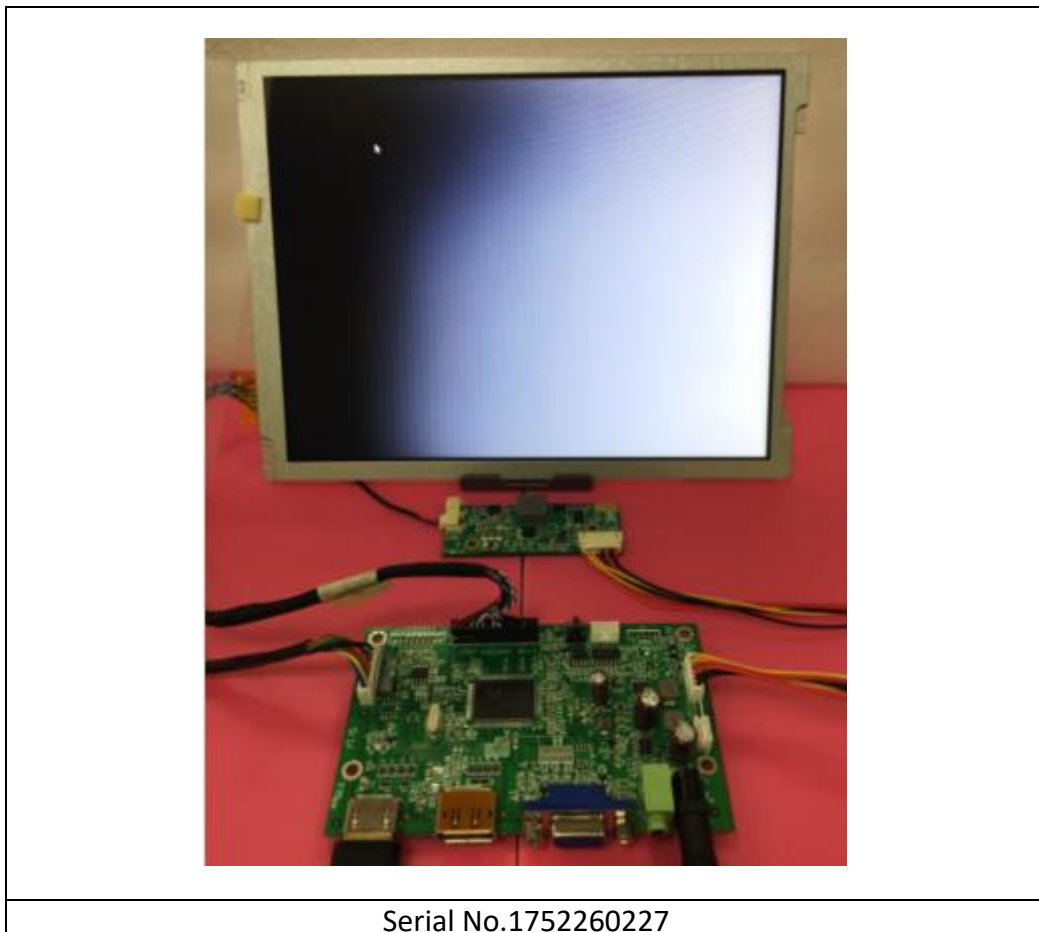
| Name | Brand | Model |
|---|-------------|------------------|
| Programmable Temperature & Humidity Chamber | Giant Force | GTH-800-40-CP-AR |

6.2 Lab Environmental Conditions

Ambient temperature: $25\pm 3^{\circ}\text{C}$
Relative humidity: $55\pm 20\%RH$

6.3 Checklist before the test

6.3.1 Functions Check





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Product Test Report

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6.3.2 Check result

| Serial No. | Function Check |
|---------------------|----------------|
| 1752260227 | Pass |
| Description: | |



7. Test method & Specification

Test Specification: Reference IEC68-2-3

Test Condition: Operation test

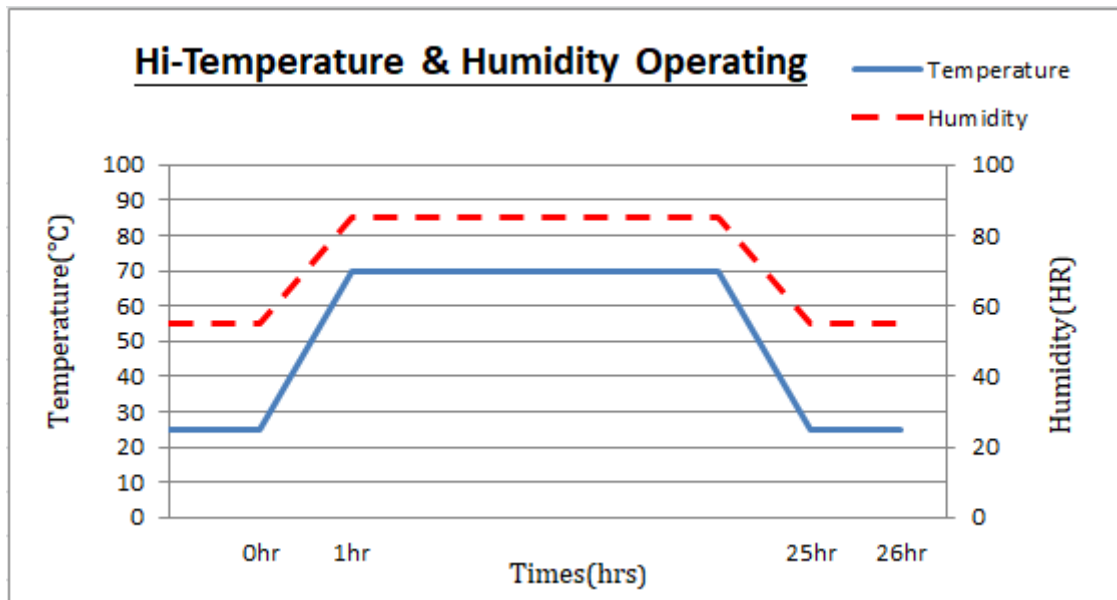
Low temperature: 70°C / 85%RH

Exposure time: 24hrs

Transfer time: 2hrs

Total test time: 26hrs

Inspection: After leaving for 24hours at room temperature.





8. Checklist after the test

8.1 Function test



8.2 Check result

| Serial No. | Function Check |
|---|----------------|
| 1752260227 | Pass |
| Description: No change in function. | |



9. High Temperature Operating Test

9.1 Test Equipment

| Name | Brand | Model |
|--|-------------|------------------|
| Programmable Temperature & Humidity Chamber | Giant Force | GTH-800-40-CP-AR |

9.2 Lab environmental conditions

Ambient temperature: $25\pm 3^{\circ}\text{C}$

Relative humidity: $55\pm 20\%RH$

9.3 Checklist before the test

9.3.1 Functions Check



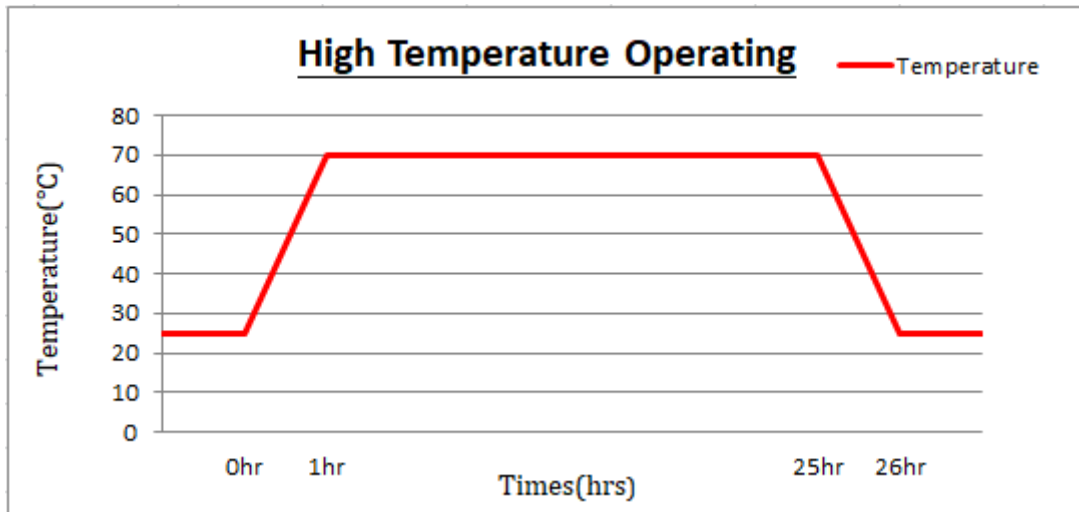
9.3.2 Check result

| Serial No. | Function Check |
|---------------------|----------------|
| 1752260227 | Pass |
| Description: | |



10. Test method & Specification

Test Specification: Reference IEC68-2-2 Test Bb
Test Condition: Operation test
High temperature: 70°C
Exposure time: 24hrs
Transfer time: 2hrs
Total test time: 26hrs
Inspection: After leaving for 24hours at room temperature.



11. Checklist after the test

11.1 Function test



11.2 Check result

| Serial No. | Function Check |
|---|----------------|
| 1752260227 | Pass |
| Description: No change in function. | |