



Computing Platform Service Partner

RDS-141V

Temp./Humidity Test Report

Report NO: 10E020015



Issued by:

Rex Chang

/

05/27/2010

Engineer

Date

Reviewed by:

Jansin Lee

/

05/27/2010

Sr. Manager

Date

1. <i>Test Item List</i> -----	2
2. <i>Test Configuration</i> -----	3
3. <i>High Temperature Storage Test</i> -----	4
4. <i>High Temperature Operation Test</i> -----	5
5. <i>Low Temperature Storage Test</i> -----	6
6. <i>Low Temperature Operation Test</i> -----	7
7. <i>Humidity Test</i> -----	8
8. <i>Temperature Shock Operation Test</i> -----	9
9. <i>Temperature Shock Non-operation Test</i> -----	10
10. <i>Cold Start And Hot Start Test</i> -----	11

Testing Result

Num	Test item list	Result	Remark
1	High temperature storage test	Pass	
2	High temperature operation test	Pass	
3	Low temperature storage test	Pass	
4	Low temperature operation test	Pass	
5	Humidity test	Pass	
6	Temperature shock operation test	Pass	
7	Temperature shock non-operation test	Pass	
8	Cold start and hot start test	Pass	

Test Product: RDS-141V + RTC-1000D1

Sample Configuration & Quantity Under Test:

Num	Item	Spec
RDS-141V Docking		
01.	AC Adapter	LI SHIN 0335A2065 (Output: 20V / 3.25A)
02.	AC Power Input	110V / 60 Hz
RTC-1000D1		
01.	CPU:	Intel Celeron M Processor Yonah U2500 / 1.2GHz / 1.175V / FSB:533
02.	PCBA	RTC-1000D.Rev.B0.1
03.	BIOS	RTC-1000D1 BIOS Version: 0.B
04.	Memory	DSL 1GB / ELPIDA E5108AJBG-6E-E / DDR2 667
05.	SATA HDD	Western Digital 80GB / WD800BEVT / 5400RPM
11.	Battery	LI-ION Rechargeable Battery / DR202 DC11.1V / 7800mAh
14.	Test Software	Windows XP / Run Pass Mark Burn In Test 5.3 Pro

Test Date: 04-16~23-2010

Test Product: RDS-141V

Test Site: AAEON QA Internal Lab.

Test Standard: Reference MIL-STD 810F Method 501.4 High Temperature
Procedure I - Storage

Test Equipment:

Programmable Temperature & Humidity Chamber

K.SON. INS. TECH. CORP.

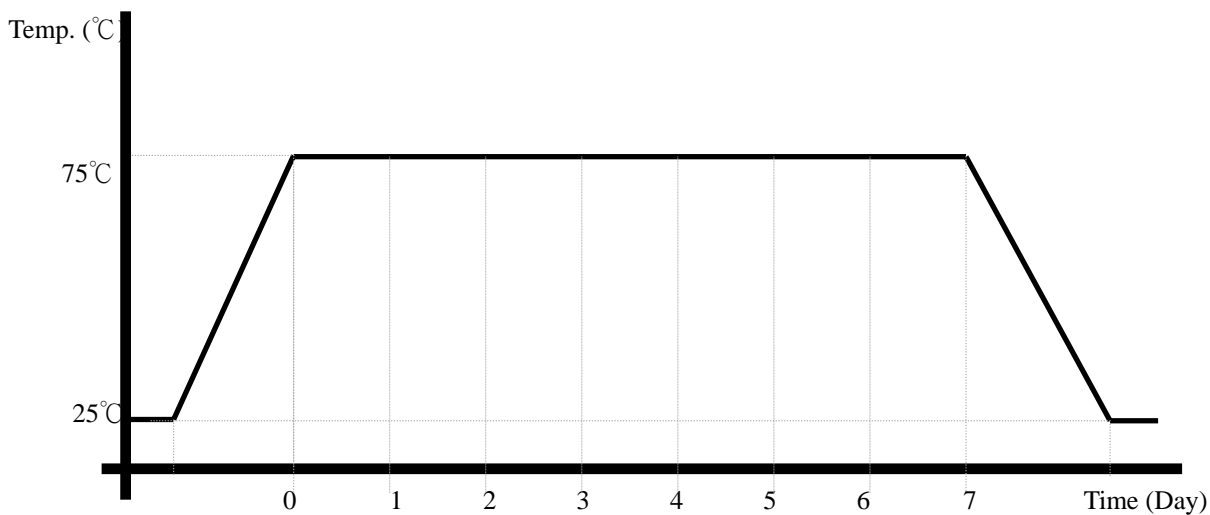
Model: THS-B6T-150+LN2

Date of Calibration: 04/01/10

Serial Number: 6487KT

Testing Item:

1. Test Temperature: 75°C
2. Test Time: 7days
3. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (RDS-141V)

Test Result:

No problem was found after the high temperature storage test.

Test Date: 04-23~28-2010

Test Product: RDS-141V + RTC-1000D1

Test Site: AAEON QA Internal Lab.

Test Standard: Reference MIL-STD 810F Method 501.4 High Temperature
Procedure II - Operation

Test Equipment:

Programmable Temperature & Humidity Chamber

K.SON. INS. TECH. CORP.

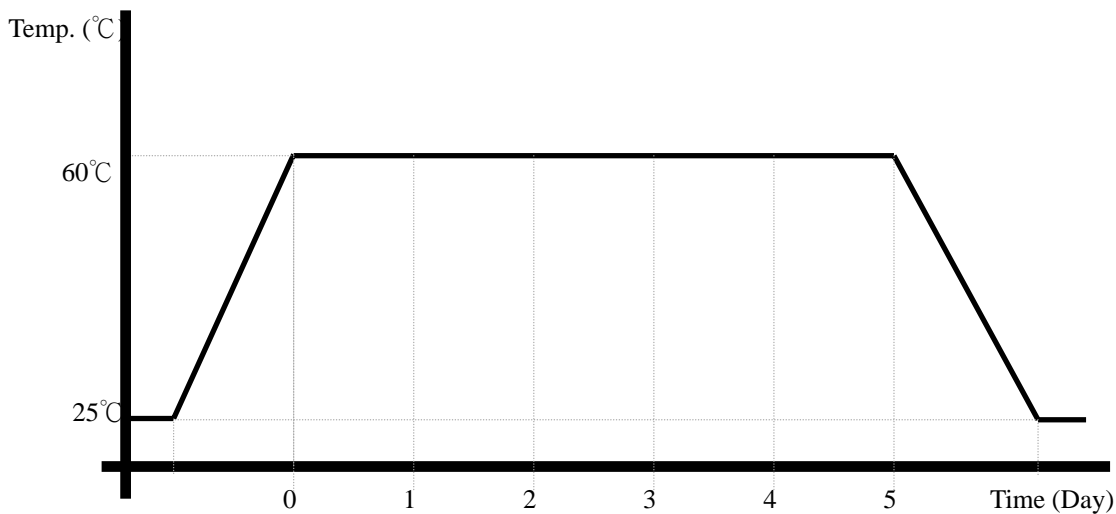
Model: THS-B6T-150+LN2

Date of Calibration: 04/01/10

Serial Number: 6487KT

Testing Item:

4. Test Temperature: 60°C
5. Test Time: 5days
6. Test Software: Windows XP Embedded / Run PassMark Burn In Test 5.3 Pro
7. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (RDS-141V + RTC-1000D1)

Test Result:

No problem was found during the high temperature operation test.

Test Date: 04-15~16-2010

Test Product: RDS-141V

Test Site: AAEON QA Internal Lab.

Test Standard: Reference MIL-STD 810F Method 502.4 Low Temperature
Procedure I - Storage

Test Equipment:
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-B6T-150+LN2
Date of Calibration: 04/01/10
Serial Number: 6487KT

Testing Item:

1. Test Temperature: -55°C
2. Test Times: 24Hrs
3. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (RDS-141V)

Test Result:

No problem was found after the low temperature storage test.

Test Date: 04-14~15-2010

Test Product: RDS-141V + RTC-1000D1

Test Site: AAEON QA Internal Lab.

Test Standard: Reference MIL-STD 810F Method 501.4 High Temperature
Procedure II - Operation

Test Equipment:

Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.

Model: THS-B6T-150+LN2

Date of Calibration: 04/01/10

Serial Number: 6487KT

Testing Item:

1. Test Temperature: -23°C
2. Test Times: 24Hrs
3. Test Software: Windows XP Embedded / Run PassMark Burn In Test 5.3 Pro
4. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (RDS-141V + RTC-1000D1)

Test Result:

No problem was found during the low temperature operation test.

Humidity test

Test Date: 04-30-2010 ~ 05-10-2010

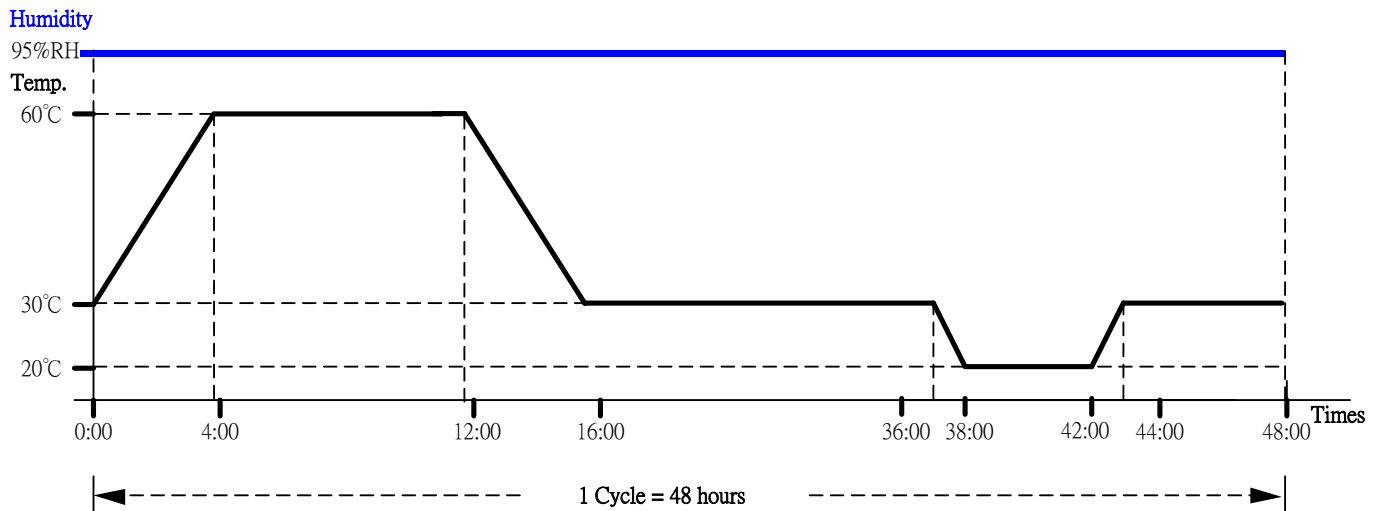
Test Product: RDS-141V + RTC-1000D1

Test Site: AAEON QA Internal Lab.

Test Standard: Reference MIL-STD 810F Method 507.4 Testing procedures
FIGURE 507.4-1. Aggravated temperature-humidity cycle

Test Equipment:
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-B6T-150+LN2
Date of Calibration: 04/01/10
Serial Number: 6487KT

- Test Condition:**
1. Non-operation
 2. Test Humidity: 95%RH
 3. Test Temperature: 60°C / 30°C / 20°C
 4. Test Times: 48Hrs / Cycle
 5. Test Cycle: 5 Cycles
 6. Test Environment Curve:



Sample Configuration & Quantity Under Test:
Quantity: 1 (RDS-141V + RTC-1000D1)

Test Result:
No problem was found after the humidity storage test.

Test Date: 05-17~18-2010

Test Product: RDS-141V + RTC-1000D1

Test Site: AAEON QA Internal Lab.

Test Standard: Reference MIL-STD 810F Method 503.4 Temperature Shock
Procedure I - Shock from constant extreme temperatures

Test Equipment:

Programmable Temperature & Humidity Chamber

K.SON. INS. TECH. CORP.

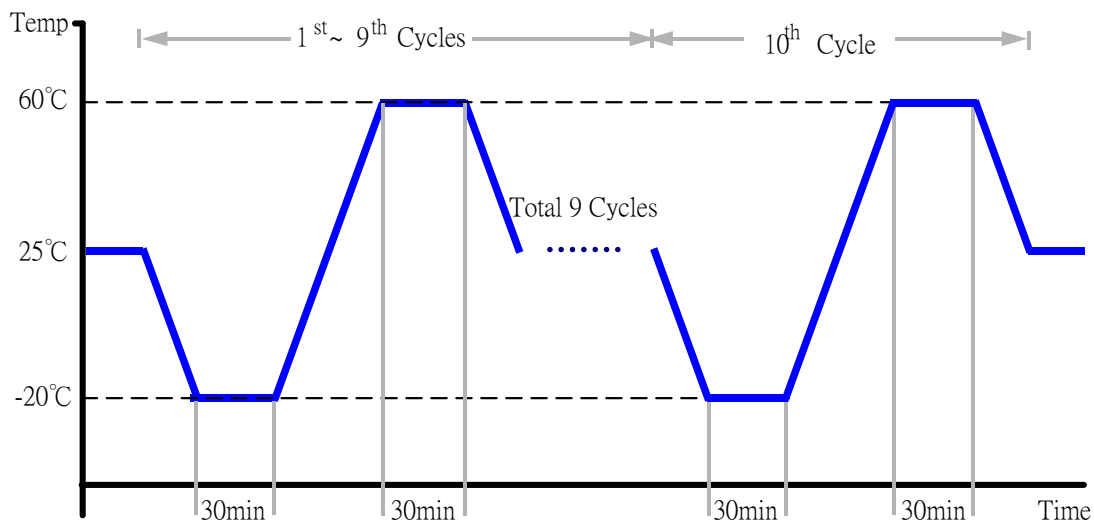
Model: THS-B6T-150+LN2

Date of Calibration: 04/01/10

Serial Number: 6488KT

Test Condition:

1. Test Low Temperature: -20°C
2. Test High Temperature: 60°C
3. Test dwell time: 30min
4. Temperature slope: 5 min
5. Test cycle: 10 cycles
6. Test Software: Windows XP Embedded / Run PassMark Burn In Test 5.3 Pro
7. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (RDS-141V + RTC-1000D1)

Test Result:

No problem was found during the variation temperature operation test.

Test Date: 05-13~14-2010

Test Product: RDS-141V + RTC-1000D1

Test Site: AAEON QA Internal Lab.

Test Standard: Reference MIL-STD 810F Method 503.4 Temperature Shock
Procedure I - Shock from constant extreme temperatures

Test Equipment:

Programmable Temperature & Humidity Chamber

K.SON. INS. TECH. CORP.

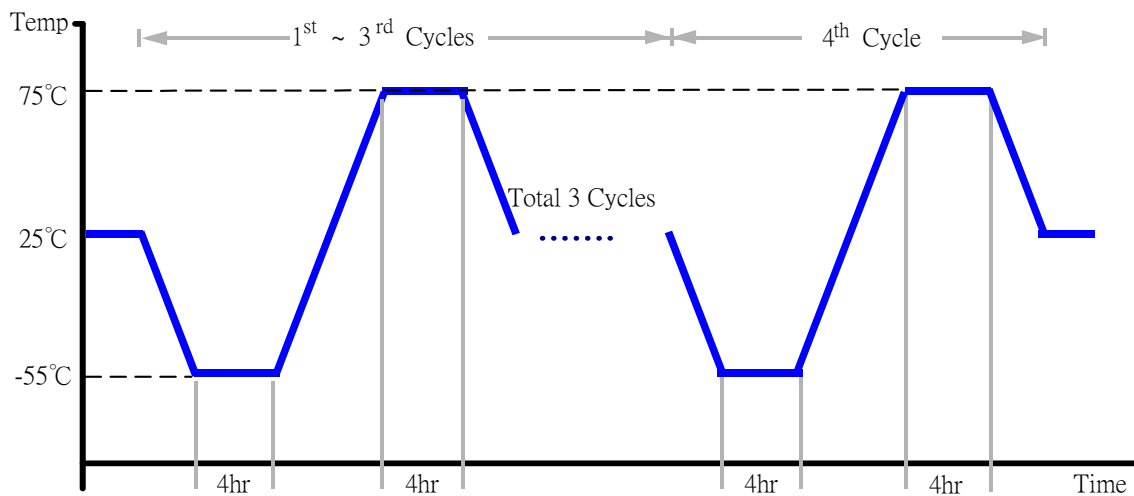
Model: THS-B6T-150+LN2

Date of Calibration: 04/01/10

Serial Number: 6488KT

Test Condition:

1. Test Low Temperature: -55°C
2. Test High Temperature: 75°C
3. Test dwell time: 4Hrs
4. Temperature slope: 10 min
5. Test cycle: 4 cycles
6. Test Environment Curve:



Sample Configuration & Quantity Under Test:

Quantity: 1 (RDS-141V + RTC-1000D1)

Test Result:

No problem was found after the variation temperature non-operation test.

Cold start and hot start test

Test Date: 05-11~12-2010

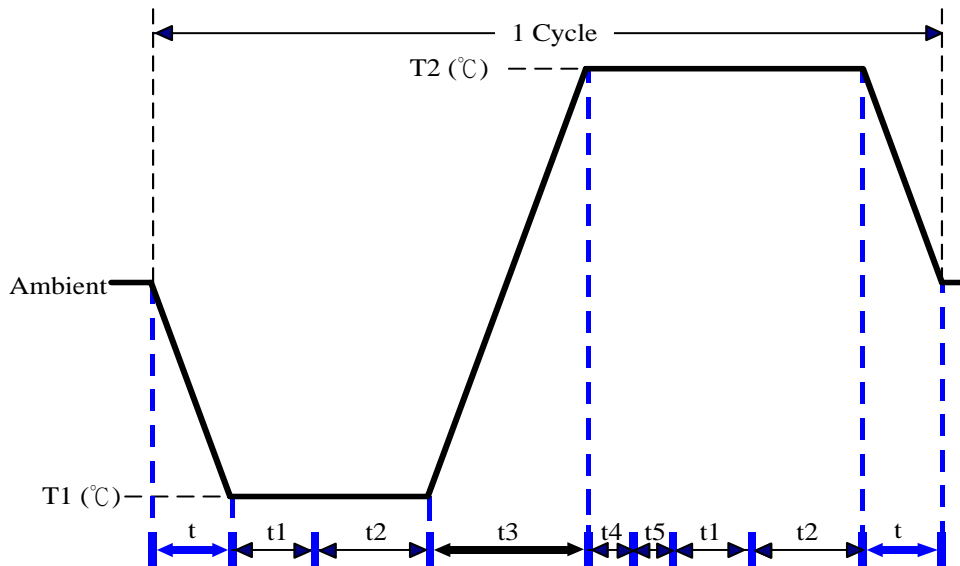
Test Product: RDS-141V + RTC-1000D1

Test Site: AAEON QA Internal Lab.

Test Standard: Reference IEC 68-2-14 Testing procedures
Test N: Change of temperature Test

Test Equipment:
Programmable Temperature & Humidity Chamber
K.SON. INS. TECH. CORP.
Model: THS-B6T-150+LN2
Date of Calibration: 04/01/10
Serial Number: 6487KT

Test Condition:



Parameters	Description
T1	-5°C
T2	45°C
t1	1 hrs
t2	2 hrs
t4, t5	30 min
t, t3	2°C/min
n (Cycle)	1

t, t3 = temprature slope
t, t1: Power Off
t2: Power on/off test 5 times (on 2 min / off 5min)
t3, t4: Run PassMark Burn In Test
t5: Win XP Embedded Software restart test 2 times
Test Software: Windows XP

Test Result:

- a. No problem was found during the cold start test.
- b. No problem was found during the hot start test.