QA Test Report

PCM-9375

(Thermal Shock Test)

Report No : 06T062A0

Report Date : October 3, 2006
Test Date: September 25, 2006 ~ September 28, 2006
Test Site: Advantech QA Environment Lab
Performed By: Knight Hu

Purpose: The thermal shock test for Phoenix test

Test Standard: Reference IEC68-2-14 Testing procedures
Test N: Change of temperature Test

Test Condition:
1. Test High Temperature: 85 °C
2. Test Low Temperature: -40 °C
3. Test dwell time: 2Hrs
4. Temperature slope: 10 °C /min
5. Test cycle: 10 cycles
6. Test method: a. System do the power on/off test total 20 times.
   (Testing 10 times at -40 °C & 10 times at 85 °C)
   b. Running Passmark Burn-in test program in WinXP
7. Test Environment Curve:
Test Equipment: Programmable Temperature & Humidity Chamber
K.SON. INS. TECH CORP.
Model: THS-D7S+-150-LN2
Date of Calibration: 4/06/2006

Sample Configuration & Quantity Under Test:

Using ten pieces of PCM-9375 with the following options installed:

1. PCM-9375E *5
2. PCM-9375F *5

Performance Criteria:

Electronic function check:
1. All system functions must be checked with appropriate testing programs and should pass the inspection.
2. Running WinXP for OS, the system should not have degradation in its performance.

Test Result:
1. We found two test sample have electric function failure. (PCM-9375E and PCM-9375F have each one piece)
2. In the thermal test the two samples has blue screen and power cycle test the two samples can’t turn on system to normal.

Conclusion:
The PCM-9375 on the thermal shock screen test failure rate is 20%.
PCM-9375E front side view
Photo II:

PCM-9375E rear side view
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QA Lab Reliability test

Photo III:

PCM-9375F front side view
Photo IV:

PCM-9375F rear side view
Photo V:

PCM-9375 thermal shock test