

QA Lab Reliability Test

Vibration Test Report

PC3-P200

Report No : 03S019A0

Report Date : April 21, 2003

Issue Stamp

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Manager of QA Department

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Approval

Charles Chang
Test Engineer

QA Lab Reliability test

Item	Specification / Component
CPU	Embedded VIA C3 Eden 667 MHz
Memory	168pin DIMM socket x 2 Up to 1GB SDRAM
Hard disk drive	One 2.5" drive
Storage device	One slim CD-ROM built-in
SSD	One internal Compact Flash Type II socket
I/O Ports	4 COM ports, 1 parallel port, 2 USB ports, PS/2 mouse and K/B, Mic-in/Line-in/Line-out, VGA port
Expansion	One PISA slot (Optional)
Network (LAN)	10/100base-T Ethernet
Audio Interface	Speaker out, CD-input, Line-in, Line-out, Mic-in
Speakers build-in	Speaker-connector (1.3W)
Power supply	DC input with an power adapter –Lien Electronic LE-9702B-06
Display	12.1" 800 x 600 TFT LCD
Housing	Plastic
Dimension (W x H x D)	340mm x 269.3mm x 68.5mm
Weight	3.25kg
T/S option	Analog resistive
Battery pack option	Smart Li-ion 3S2P 10.8V 4000mAh

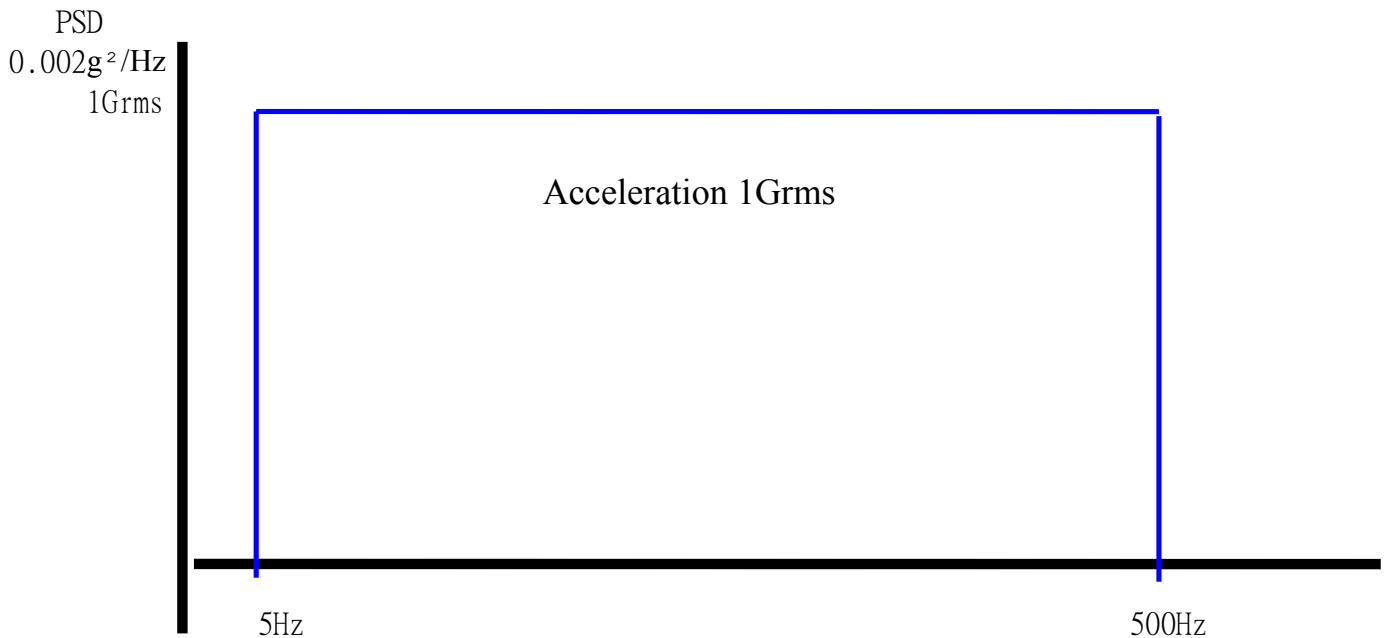
QA Lab Reliability test

Test Date : June 10, 2002
Test Site : Advantech QA Environment Lab
Performed By : Jeff Yang

Test Standard : Reference IEC68-2-64 Testing procedures
Test Fh : Vibration broadband random test

Test Condition :

1. Test Acceleration : 1Grms
2. System condition : Operation
3. Test Frequency : 5-500Hz
4. Test Axis : X, Y, and Z-axis
5. Test Time : 1 hour
6. Test Software : Running VCD (soft-MPEG file) from HDD in Win98
7. Test Vibration Curve :



*QA Lab Reliability test***Test Equipment :** Vibration Simulator System

KING DESIGN Co. LTD.

Model : 9363EM-20030-25N80

S / N : MC104053285

Date of Calibration : 04/08/2002

Sample Configuration & Quantity Under Test :

Using one PC3-P200 panel PC with the following options installed:

1. CPU : VIA C3 Eden 667 MHz
2. Chipsets : S3 VIA Wister T PN133T
VIA VT82C686B
3. LAN : RTL 8139C
4. RAM : Kingstone KVR133X64C3 256MB
5. HDD : Fujitsu MHH2060AT 6.0G

Performance Criteria :

Electronic function check:

1. All system functions must be checked with appropriate testing programs and should pass the inspection.
2. Running Win98 for OS, the system should not have degradation in its performance.

Mechanical function check:

1. The cover and connectors should work properly without any interference.
2. All screws should be tightened up appropriately.

Test Result :

There is no damage in electronic and mechanical functions.

Degradation has not been found.

Performance is maintained with no incurable physical damage or degradation.

QA Lab Reliability test

Conclusion :

Passed.

The PC3-P200 panel PC meets random vibration operation test.

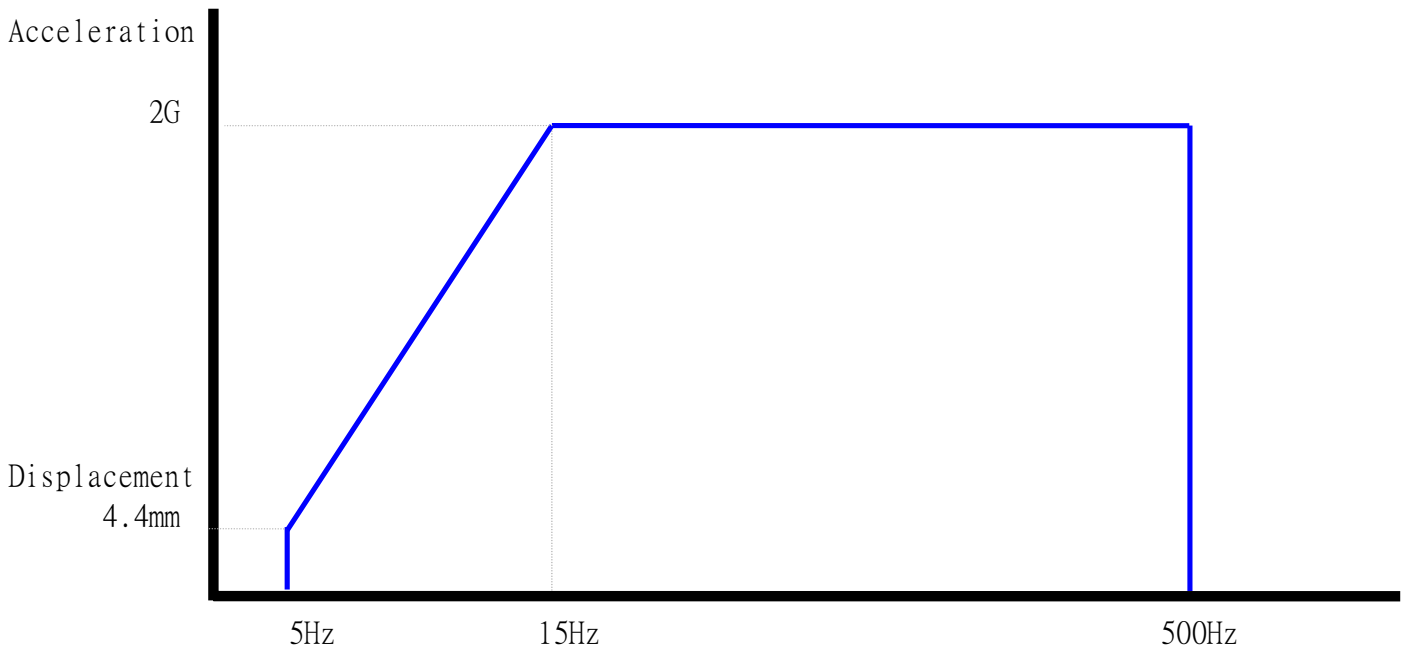
QA Lab Reliability test

Test Date : June 14, 2002
Test Site : Advantech QA Environment Lab
Performed By : Jeff Yang

Test Standard : Reference IEC68-2-6 Testing procedures
Test Fc : Vibration Sinusoidal Test

Test Condition :

1. Test Acceleration : 2G
2. System condition : Non-operating
3. Test Frequency : 5-500Hz
4. Test Velocity : 1 Octave / min
5. Test Axis : X, Y, Z axis
6. Test Time : 1 hour pre axis
7. Test Vibration Curve :



QA Lab Reliability test

Test Equipment : Vibration Simulator System
KING DESIGN Co. LTD.
Model : 9363EM-20030-25N80
S / N : MC104053285
Date of Calibration : 04/08/2002

Sample Configuration & Quantity Under Test :

Using one PC3-P200 panel PC with the following options installed:

1. CPU : VIA C3 Eden 667 MHz
2. Chipsets : S3 VIA Wister T PN133T
VIA VT82C686B
3. LAN : RTL 8139C
4. RAM : Kingstone KVR133X64C3 256MB
5. HDD : Fujitsu MHH2060AT 6.0G

Performance Criteria :

Electronic function check:

1. All system functions must be checked with appropriate testing programs and should pass the inspection.
2. Running Win98 for OS, the system should not have degradation in its performance.

Mechanical function check:

1. The cover and connectors should work properly without any interference.
2. All screws should be tightened up appropriately.
3. All gaps on the surface are appropriately.
4. The assembling/disassembling of the system enclosure or mechanical parts must be smooth ,and no deformed parts should be found.

QA Lab Reliability test

Test Result :

There is no damage in electronic and mechanical functions.
Degradation has not been found.
Performance is maintained with no incurable physical damage or degradation.

Conclusion :

Passed.

The PC3-P200 panel PC meets non-operation sine vibration test.

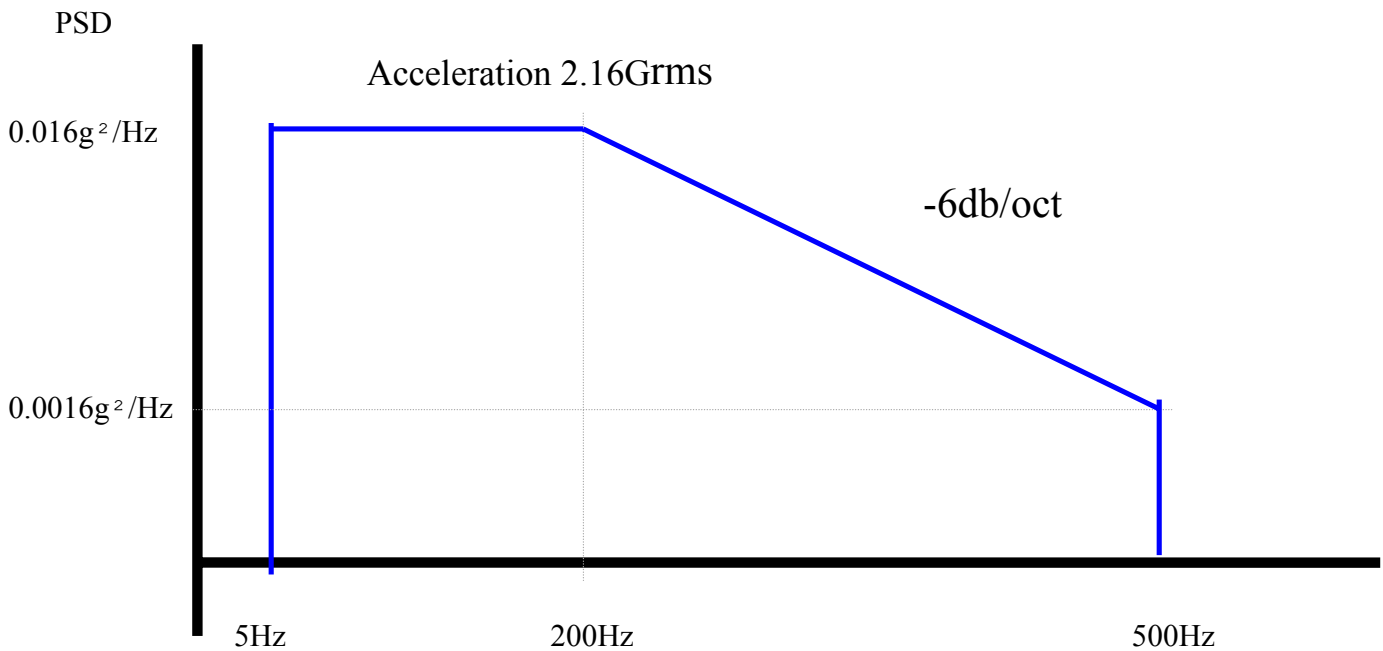
QA Lab Reliability test

Test Date : June 19, 2002
Test Site : Advantech QA Environment Lab
Performed By : Jeff Yang

Test Standard : Reference IEC68-2-64 Testing procedures
Test Fh : Vibration broadband random test

Test Condition :

- 1. Test PSD : 0.016G²/Hz
- 2. Test Frequency : 5-500Hz
- 3. Test Axis : X,Y and Z axis
- 4. Test Time : 1hr per each axis
- 5. Test Curve :



QA Lab Reliability test

Test Equipment : Vibration Simulator System

KING DESIGN Co. LTD.

Model : 9363EM-20030-25N80

S / N : MC104053285

Date of Calibration : 04/08/2002

Sample Configuration & Quantity Under Test :

Using one PC3-P200 panel PC with the following options installed:

1. CPU : VIA C3 Eden 667 MHz
2. Chipsets : S3 VIA Wister T PN133T
VIA VT82C686B
3. LAN : RTL 8139C
4. RAM : Kingstone KVR133X64C3 256MB
5. HDD : Fujitsu MHH2060AT 6.0G

Performance Criteria :

Electronic function check:

1. All system functions must be checked with appropriate testing programs and should pass the inspection.
2. Running Win98 for OS, the system should not have degradation in its performance.

Mechanical function check:

1. The cover and connectors should work properly without any interference.
2. All screws should be tightened up appropriately.
3. All gaps on the surface are appropriately.
4. The assembling/disassembling of the system enclosure or mechanical parts must be smooth ,and no deformed parts should be found.

QA Lab Reliability test

Test Result :

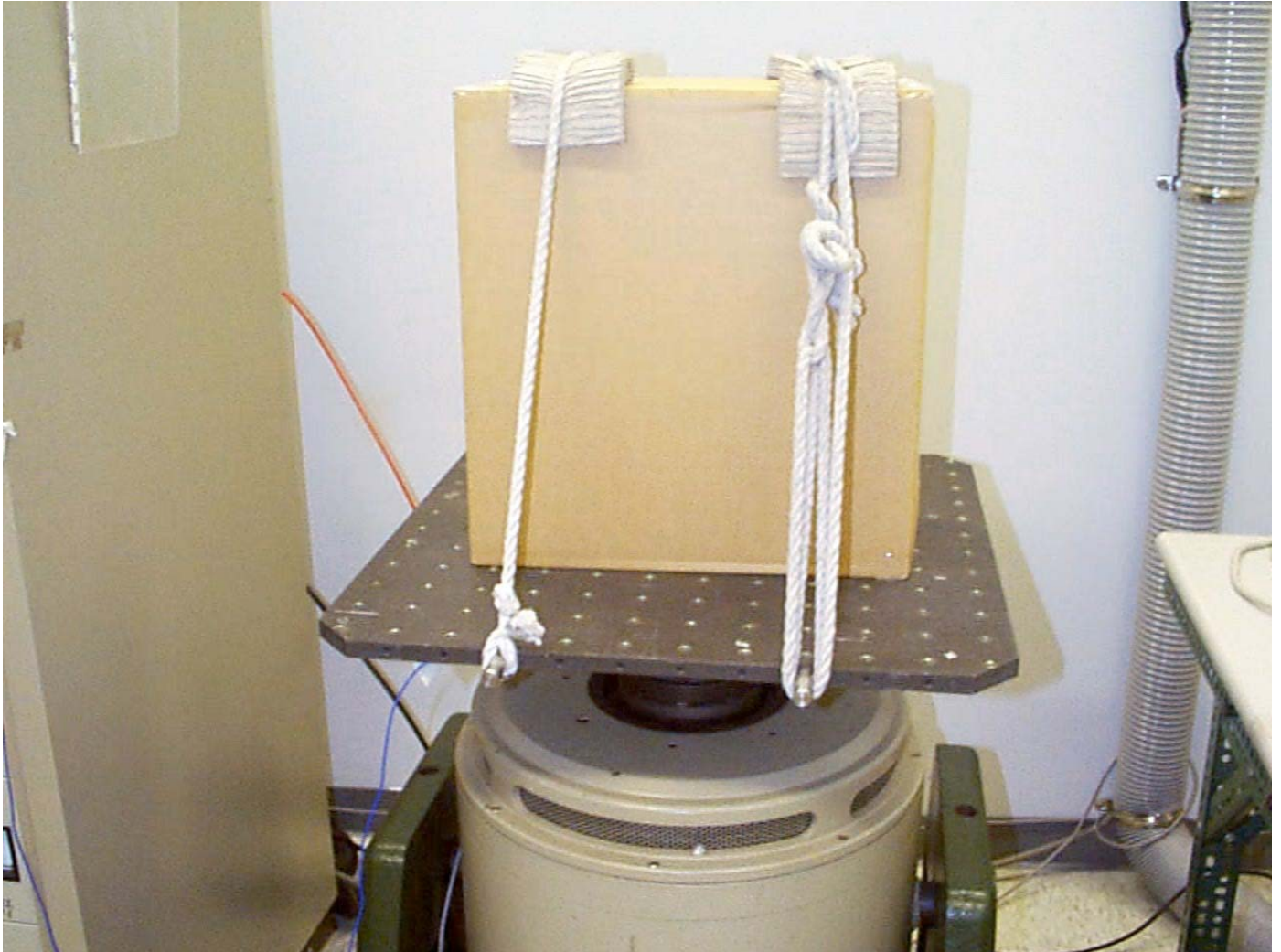
There is no damage in electronic and mechanical functions.
Degradation has not been found.
Performance is maintained with no incurable physical damage or degradation.

Conclusion :

Passed.

The PC3-P200 panel PC meets package vibration test.

Photo I:



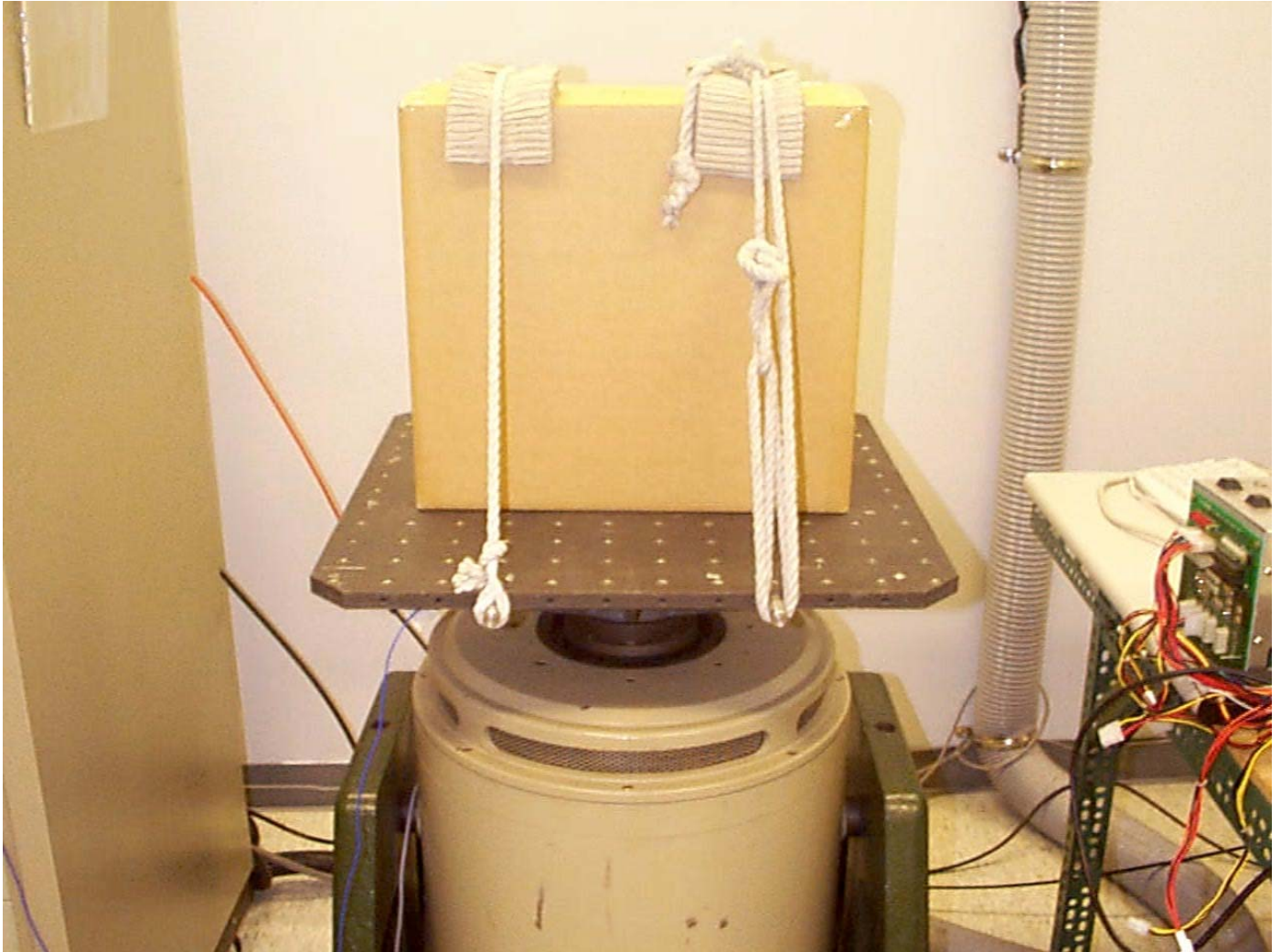
PC3-P200 package vibration test for X-axis

Photo II:



PC3-P200 package vibration test for Y-axis

Photo III:



PC3-P200 package vibration test for Z-axis