

QA Test Report

ADAM-4000 Series

(Shock Test)

Report No : 1999V014

Issue Stamp

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QA Lab Reliability test

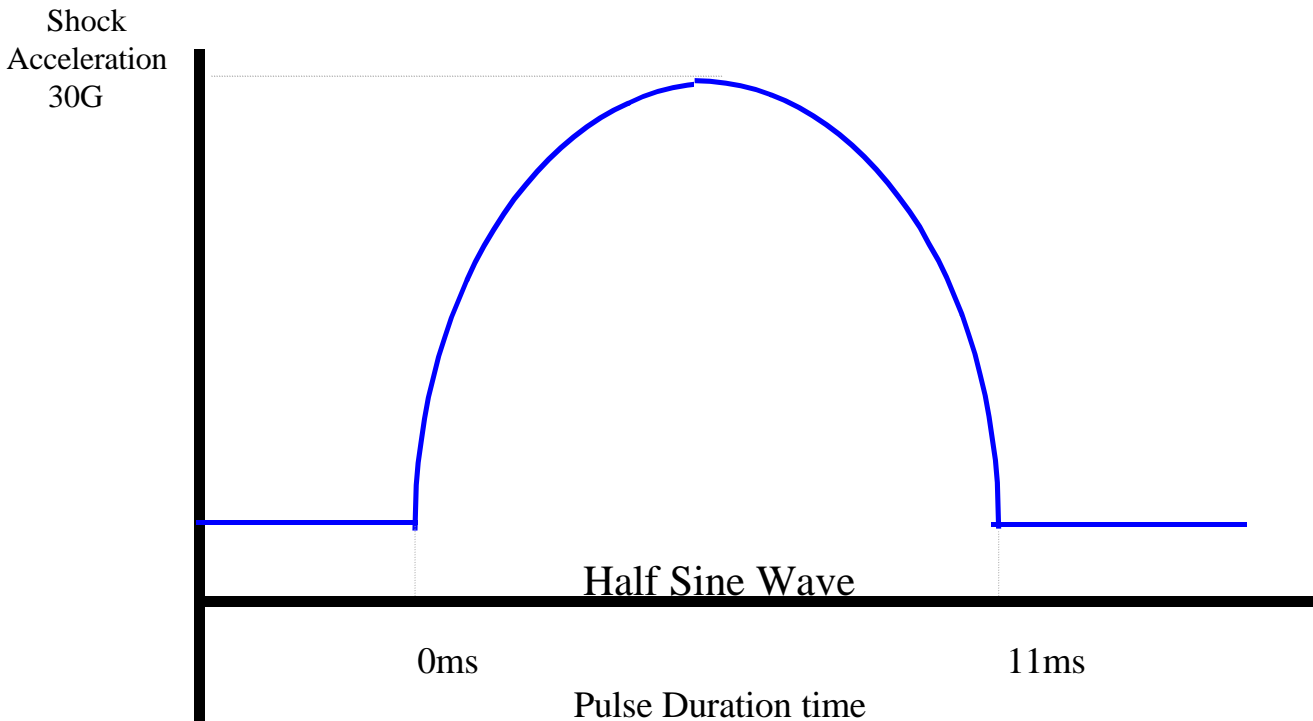
Test Date : May 17, 1999
Test Site : ITRI/ERSO Environment Lab
Performed By : Charles Chang
Art Liao

Purpose : The mass production quality check test

Test Standard : Reference IEC68-2-27 testing procedures
Test Ea : Shock

Test Condition :

1. Test Pulse shape : Half sine wave
2. Test Acceleration : 30G
3. Test Pulse Duration time : 11ms
4. Test side : Six sides
5. Test Times : Three times each side
6. Test Curve :



QA Lab Reliability test

Test Equipment : Mechanical Shock System

Model : L.A.B 886.36.36

Sample Configuration & Quantity Under Test :

Using ADAM-4000 series module following installed:

- 1.ADAM-4011 Ver B3 Analog I/P module
- 2.ADAM-4011D Ver A1 Analog I/P module with LED display
- 3.ADAM-4012 Ver D1 Analog I/P module
- 4.ADAM-4013 Ver D1 Analog I/P module
- 5.ADAM-4014D Ver A1 Analog I/P module with LED display
- 6.ADAM-4016 Ver A1 Strain gauge I/P module
- 7.ADAM-4017 Ver D1 8-channel Analog I/P module
- 8.ADAM-4018 Ver D1 8-channel Thermocouple module
- 9.ADAM-4021 Ver D1 Analog O/P module
- 10.ADAM-4050 Ver B3 7-channel digital I/O module
- 11.ADAM-4052 Ver B3 8-channel isolated digital I/P module
- 12.ADAM-4053 Ver A1 16-channel isolated digital I/P module
- 13.ADAM-4060 Ver B3 4-channel Relay O/P module
- 14.ADAM-4080 Ver A1 Counter/Frequency I/P module
- 15.ADAM-4080D Ver A1 Counter/Frequency I/P module with LED display
- 16.ADAM-4500 Ver A1 PC based communication controller
- 17.ADAM-4510 Ver D1 RS232/RS-485 Repeater
- 18.ADAM-4520 Ver D1 Isolated RS232 to RS-422/485 converter

Performance Criteria :

Electronic function check:

1. All system function must have properly test and passed this test.

Mechanical function check:

1. The connectors, slot can work properly without any interference.
2. The module cover can work properly without any interference or appearance to change.
- 3.the PCB enclosure or mechanical parts must be normal, and no deformed parts found.
4. The subsidiary bracket has without interference of the appearance to found.

QA Lab Reliability test

Test Result :

Test is no electronic and mechanical function damage or degradation has found, and without any incurably physical damage degradation the performance.

Conclusion :

Passed.

The ADAM-4000 Series meet the 30G shock test.