



FOR IMMEDIATE RELEASE

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**ATS' maxiGRIP™ Heat Sink Attachment System Passes
Tough Military Shock Testing**

NORWOOD, Mass, November 1, 2006 – Advanced Thermal Solutions, Inc. (ATS), a leading thermal management and mechanical packaging solutions provider, today announced that maxiGRIP™, the company's patent-pending heat sink attachment system for mounting heat sinks to flip chips, BGAs, and other hot on the PCB components, has passed Mil-STD-810 Shock Testing and Unpackaged Drop Testing.

Shock and vibration testing was performed and certified by National Technical Systems, Inc. (NTS), a leading provider of engineering services to the defense, aerospace, telecommunications, automotive and high technology markets.

"The effects of shock and vibration are important in many engineering applications ranging from computers to automobiles, from military vehicles and high-performance aircraft to missiles," said Kaveh Azar, president and CEO of Advanced Thermal Solutions, Inc. "ATS' maxiGRIP™ heat sink attachment solution has been tested according to some of the most stringent standards for electronic components and every time it has remained securely on the board and showed no damage."

The maxiGRIP™ system features a plastic frame clip that snaps securely around a component's perimeter. A stainless steel spring clip runs through the heat sink's fin field and fastens securely to the plastic frame. As a result, the sink is mounted securely to the component with steady, even pressure. The spring clip is easily removed to allow a heat sink to be detached and reattached without damaging the component.

Unlike alternative screw-on or snap on attachment systems there is no chance of over- or under-tightening the sink to the processor's surface or having the heat sink pop out during transport, installation or shock and vibration. Also, because there is no need to bore holes into the board to secure the heat sink, there is decidedly more space for circuit traces on the PCB.

In addition to Mil-STD-810 Shock Testing and Unpackaged Drop Testing, NTS also tested and certified maxiGRIP™ in accordance with Telcordia GR-63-Core Office Vibration and ETSI 300 019 Transportation Vibration standards. The maxiGRIP™ system is also compliant with NEBS standards and meets RoHS requirements.

The maxiGRIP™ system is available for a wide range of heat sinks and components sizes and prices are below \$8.00 in production quantities.

About Advanced Thermal Solutions, Inc.

Advanced Thermal Solutions is a leading engineering and manufacturing company supplying complete thermal and mechanical packaging solutions from analysis and testing to final production. ATS provides a wide range of heat sinks and laboratory-quality thermal instrumentation, along with thermal design consulting services and training. For more information about Advanced Thermal Solutions, Inc., please visit www.qats.com or call 781-769-2800.

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National
Technical
Systems

36 Gilbert Street South
Tinton Falls, NJ 07701
Tel: 732-936-0800
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CERTIFICATE OF COMPLIANCE

August 31, 2006

Customer: **ATS, Advanced Thermal Solutions**
 89-27 Access Road
 Norwood MA 02062

Test Item: Maxi-Grip Heat Sink Assemblies

Equipment Identification

Type of Equipment:	Maxi-Grip Heat Sinks
Equipment Model Number:	ATS-373-C2-R4 – Small HS assembly 21mm x 21mm component – such as: IBM 750FX/GX ATS-399-C2-R0 – larger HS assembly 25mm X 25mm component – such as: FREESCALE MPC 7448
Equipment Serial Number:	N/A
Equipment Description:	Heat Sink, Frame Clip, Spring Clip
Supplier/Manufacturer:	Advanced Thermal Solutions, Inc. (ATS)

National Technical Systems (NTS) certifies that the above referenced item(s) has/have been tested in accordance with the Telcordia GR-63-Core Office Vibration, ETSI 300 019 Transportation Vibration, Mil-STD-810 Shock Testing and Unpackaged Drop Testing. The product remained securely on the test unit and showed no physical damage after testing to the above Specifications. .

Telcordia GR-63-Core, ETSI 300 019, Mil-STD 810-Shock,



Mark Betts
NTS Project Manager



Richard C. Gaynor
NTS Facility Manager

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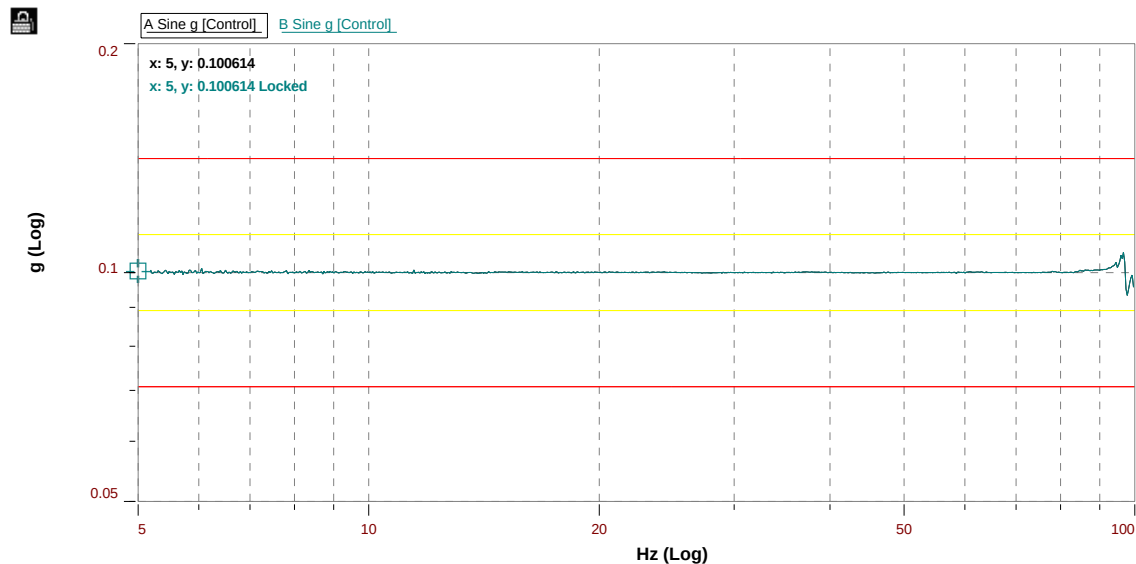


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Test Specifications, Test Plots, and Pictures:

Office Vibration in accordance with GR-63-Core;
Sine Vibration
5-100HZ at .1g
2 sweeps
.1 Octave/min
3 mutually perpendicular axes



GR63 Office Vibration X axis

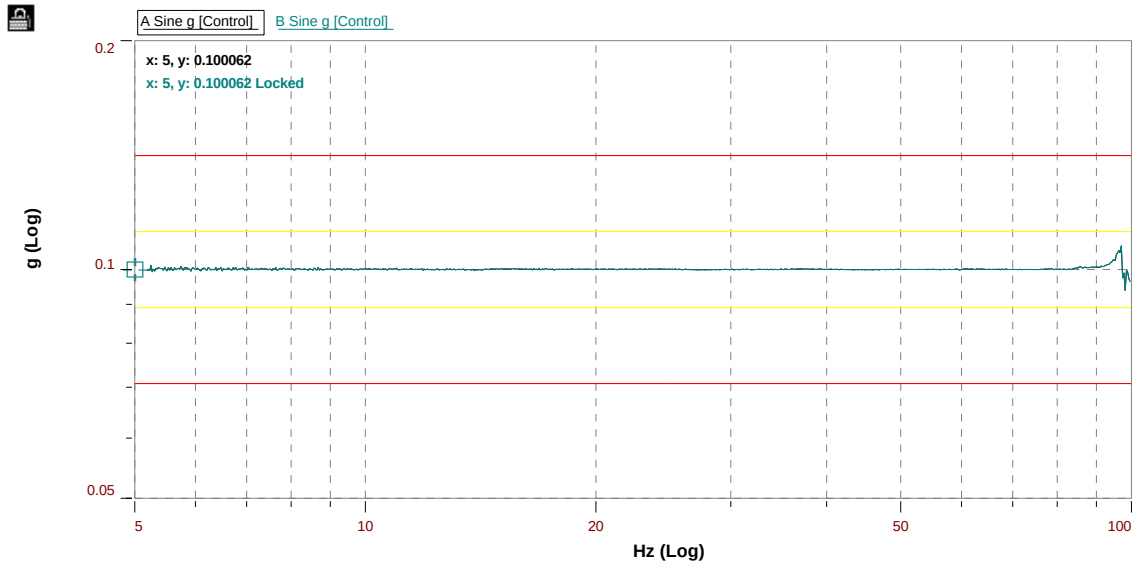
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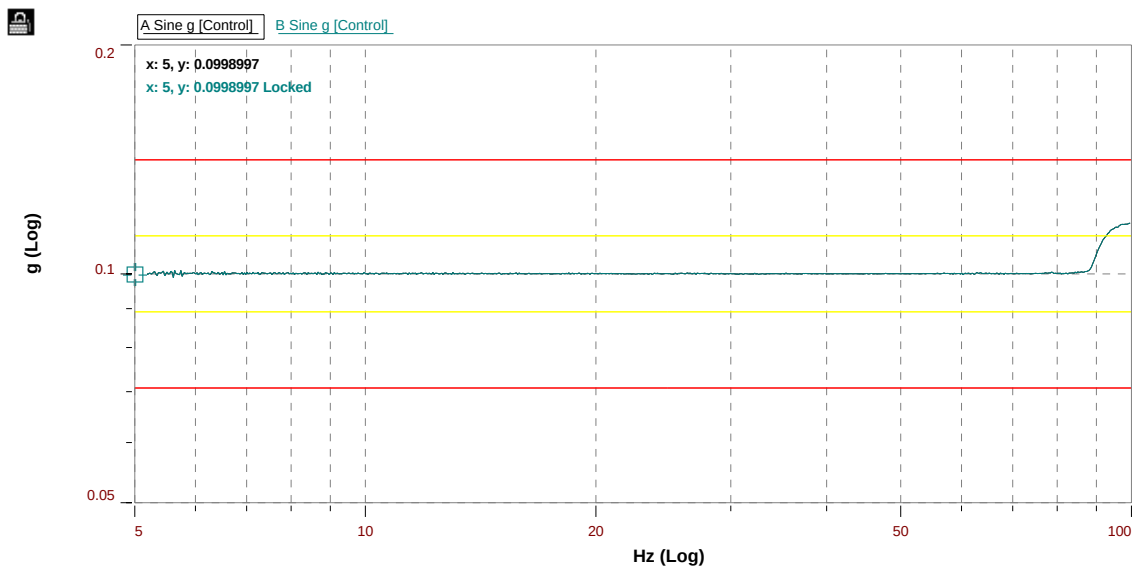


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GR63 Office Vibration Y axis



GR63 Office Vibration Z axis

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Transportation Vibration in accordance with ETSI EN300 019:

Random Vibration

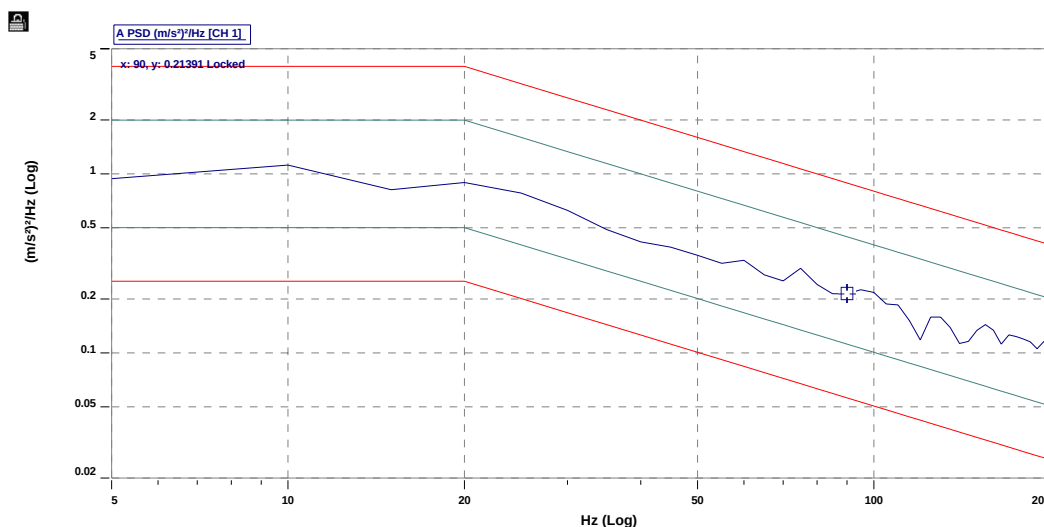
5-20HZ at 1.0 M/s²

20-2000 at -3DB/Oct

Overall GRMS: 7.83

30 Min/Axis

3 Axes



ETSI Package Random Y axis

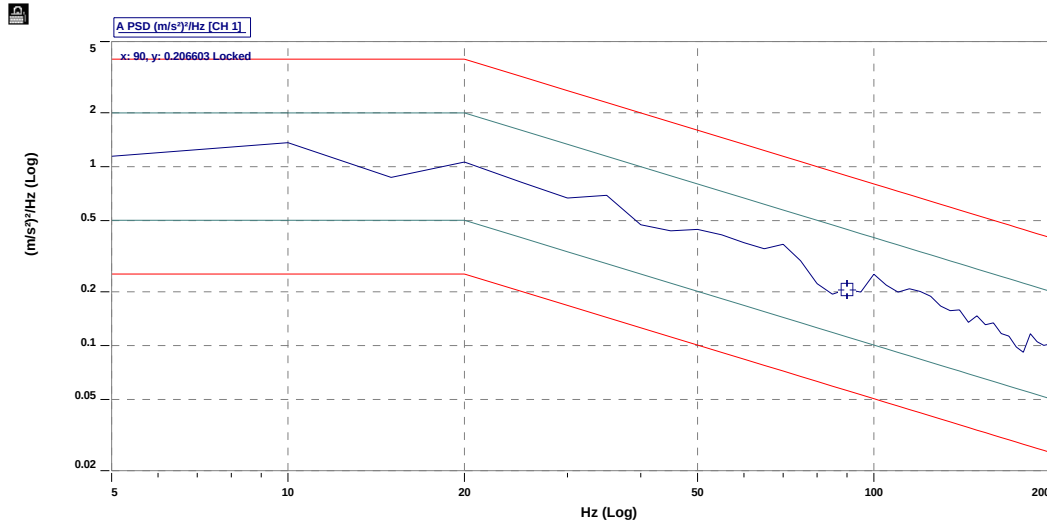
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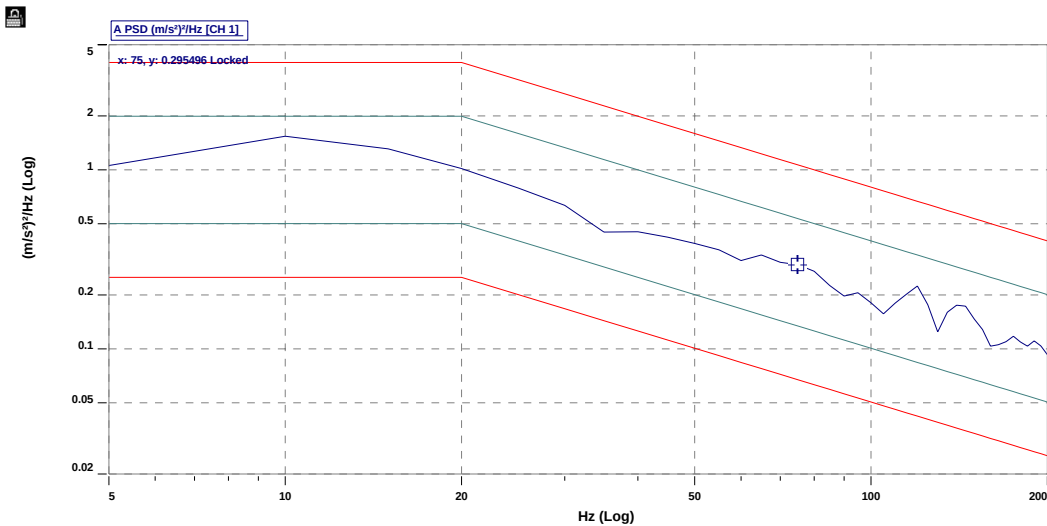


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ETSI Package Random X axis



ETSI Package Random Z axis

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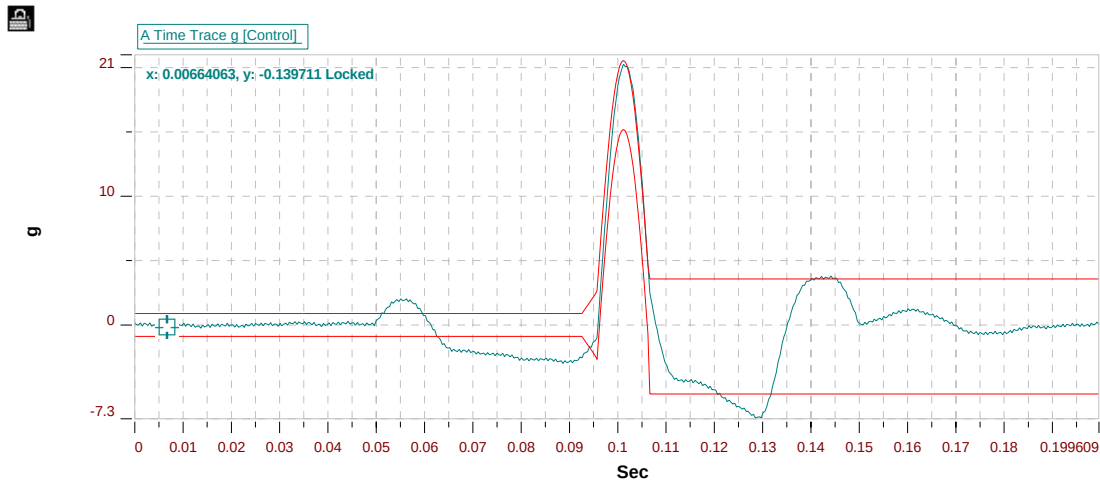
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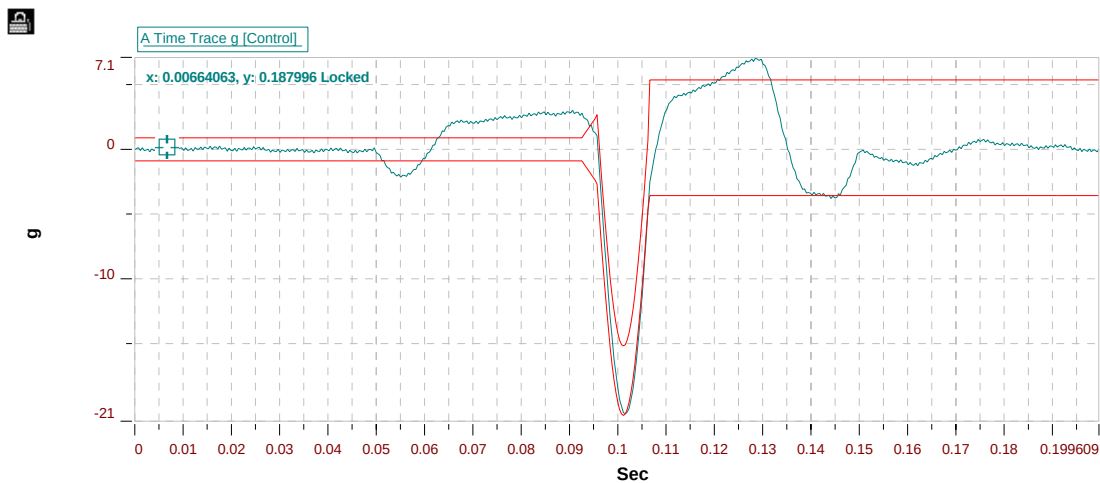
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Half Sine Shock in accordance with Mil-STD-810:
20g's at 11msec ½ Sine Pulse
3 Shocks/axis
6 Directions
Total 18 Shocks



MIL-STD-810 Half Sine + Shock



MIL-STD-810 Half Sine - Shock

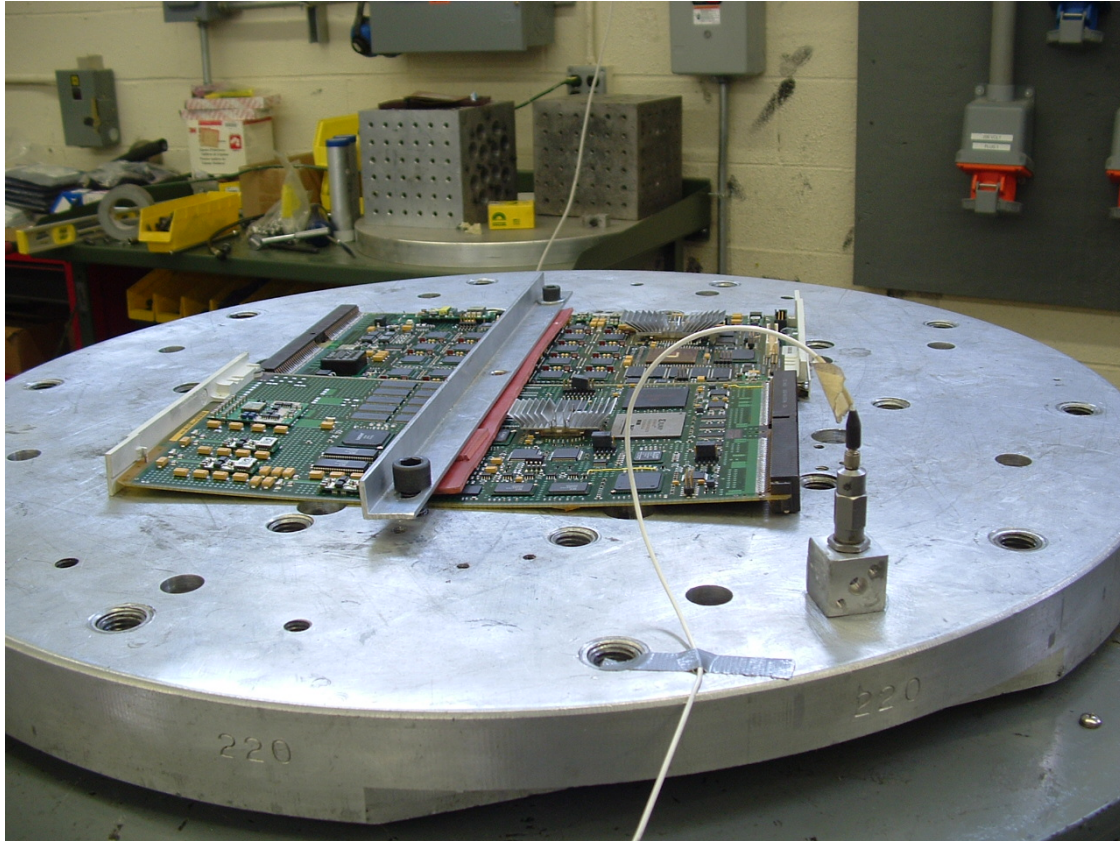
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Z-Axis

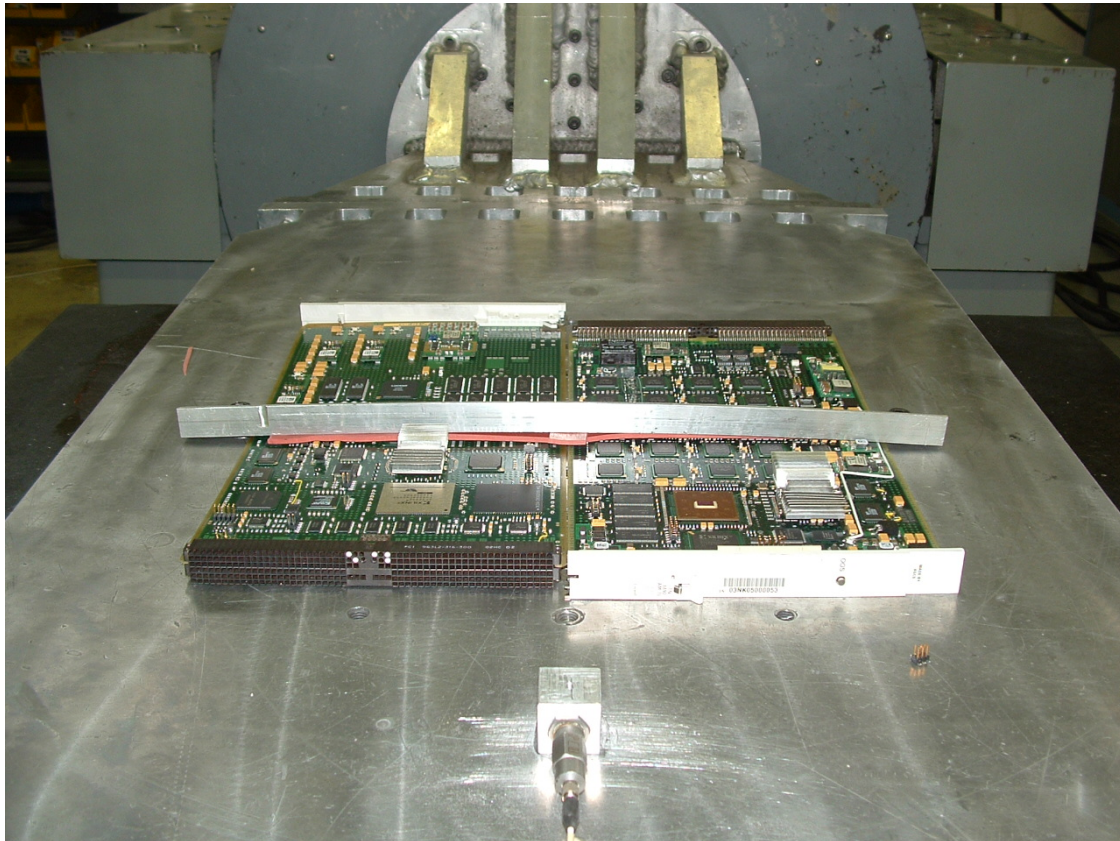
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X-Axis

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Y-Axis

Drop Test
Unpackaged
Drop Height of 36 inches
1 Drop on each of 6 faces

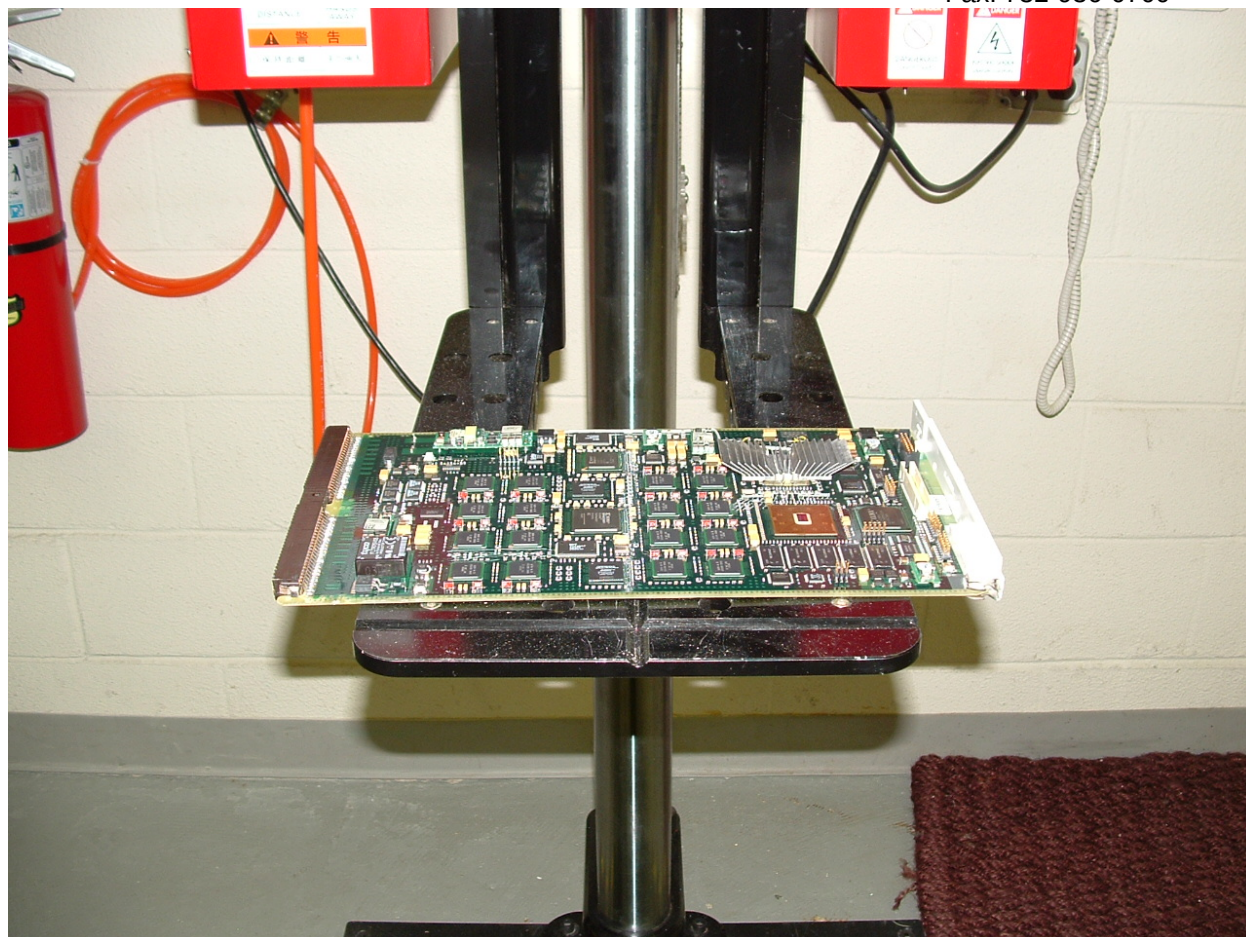
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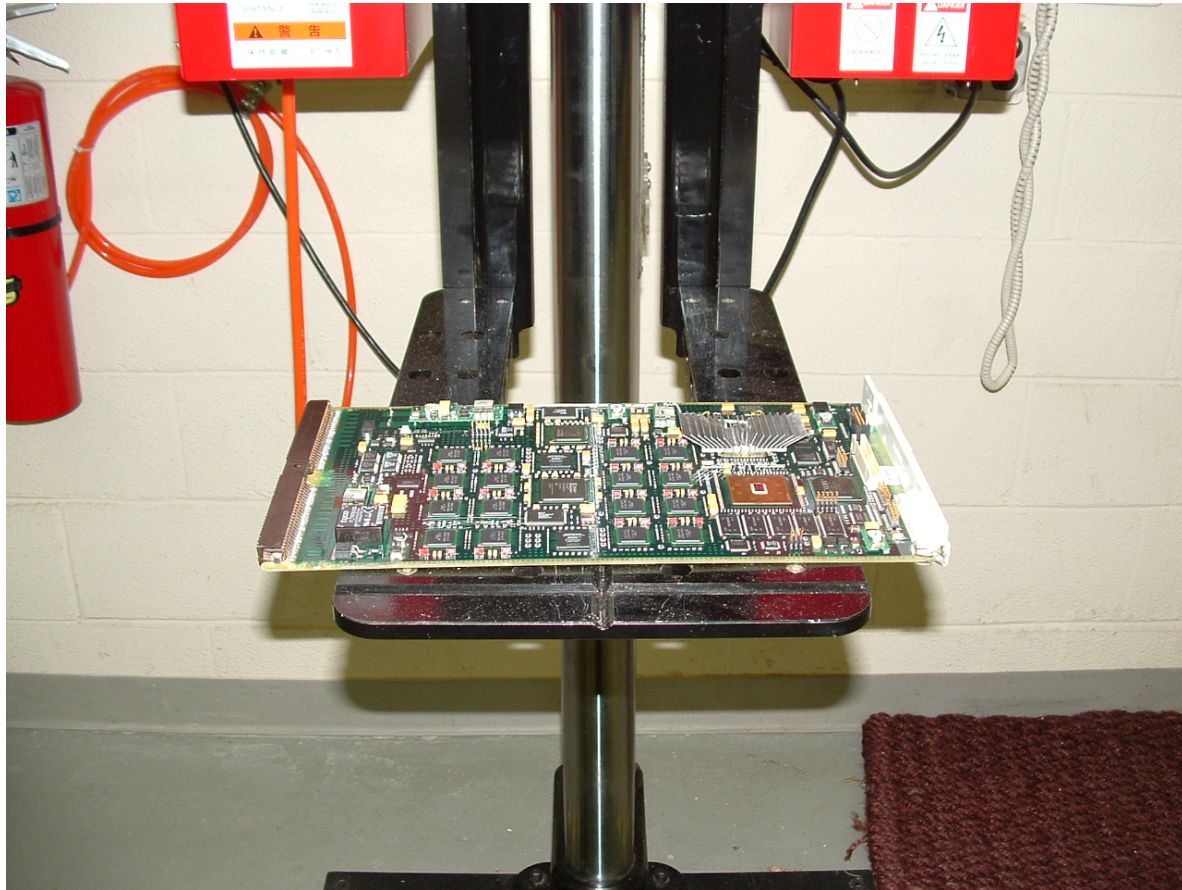
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