



C O R P O R A T I O N

Technical Data Sheet

Quasi-Random Vibration System

TDS-16

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1. A major benefit of this system is that the Mechanical Random Vibration Generator may be removed and the customer may use the Mechanical Shaker as a source of SINE VIBRATION or SWEPT-SINE (if an ACI and Model 491 Sweep Control are added).
2. Quasi-Random excitation is produced using a resonant beam tuned to the frequency of the mechanical shaker. The resonant beam shall "strike" a steel UUT mounting table causing the table to become "resonant rich".
3. Grms is variable by adjusting the eccentric weights in the mechanical shaker, thereby, varying its amplitude of vibration.
4. The RANDOM VIBRATION produced by the system is broad band in nature and not controllable.
5. 3-Axes vibration is generated by using our patented Incline Fixture.
6. Any Quasi-Random System may readily interface with an AGREE Chamber for combined temperature/vibration requirements.