

MIL-STD-750D

METHOD 2006

CONSTANT ACCELERATION

1. Purpose. The constant acceleration test is used to determine the effect on devices of a centrifugal force. This test is an accelerated test designed to indicate types of structural and mechanical weaknesses not necessarily detected in shock and vibration tests.

2. Apparatus. Constant acceleration tests shall be made on an apparatus capable of meeting the minimum requirements of the individual specifications.

3. Procedure. The device shall be restrained by its case, or by normal mountings, and the leads or cables secured. A centrifugal acceleration of the value specified shall then be applied to the device for one minute in each of the orientations X_1 , X_2 , Y_1 , Y_2 , Z_1 , and Z_2 . The acceleration shall be increased gradually, to the value specified, in not less than 20 seconds. The acceleration shall be decreased gradually to zero in not less than 20 seconds.

4. Summary. The following conditions shall be specified in the detail specification:

- a. Amount of centrifugal force to be applied, in gravity units (g) (see 3.).
- b. Measurements to be made after test.