



ASSOCIATION CONNECTING
ELECTRONICS INDUSTRIES®

2215 Sanders Road
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IPC-TM-650 TEST METHODS MANUAL

1 Scope This method is to determine the electrical performance of multilayer printed wiring boards by following the shock with an electrical continuity test as specified.

2 Applicable Documents None

3 Test Specimen Complete multilayer printed wiring board or qualification test board IPC-A-47.

4 Apparatus

4.1 A standard AVCO 150 pneumatic drop shock tester, or equivalent, capable of attaining at least 150 Gs.

4.2 High-speed motion picture and oscilloscope photography is not normally necessary and is not recommended for the average "go no-go" testing program.

Number 2.6.5	
Subject Physical Shock, Multilayer Printed Wiring	
Date 05/04	Revision D
Originating Task Group Rigid Printed Board Performance Task Group (D-33a)	

5 Procedure

5.1 Preparation Fixture the test pattern boards so they are restrained on all four edges. Fabricate the fixtures so that it can be oriented to test the boards on three principle planes.

5.2 Test Subject each specimen to three shock pulses of 100 Gs with a duration of 6.5 milliseconds in each of the three principle planes—a total of nine blows.

5.3 Evaluation Subject each specimen to a continuity test as specified.

6 Notes None