



# IPC-TM-650 TEST METHODS MANUAL

**1 Scope** This is a non-destructive test method for quickly and accurately measuring hole pattern locations.

**2 Applicable Documents** None

**3 Test Specimen** Qualification inspection is performed on the standard IPC test board (A-41, A-42, A-43, A-44). Conformance testing is performed on production product.

**4 Equipment/Apparatus** A CECO INSTRUMENT, Linear Micrometer model ##TA510CP3 with an accuracy of 0.005 mm per 25.4 mm, or equivalent, shall be used. Any optical, optical/mechanical or mechanical means is acceptable within the accuracy limits specified.

Number <b>2.2.19</b>	
Subject <b>Measuring Hole Pattern Location</b>	
Date <b>12/87</b>	Revision
Originating Task Group <b>N/A</b>	

## 5 Procedure

**5.1** Place the specimen face down on the measuring table and align the board's tooling holes with the table pin locating holes.

**5.2** Measure all holes for location accuracy, with respect to the datum (Registration to the Master Drawing).

**6 Report** Report all hole measurements.