ASSOCIATION CONNECTING
ELECTRONICS INDUSTRIES

2215 Sanders Road
Northbrook, IL 60062-6135

Number	
2.4.5.1	
Subject	
Flexibility - Conformal Coating	
Date	Revision
07/00	
Originating Task Group	
Conformal Coating Task Group (5-33a)	

IPC-TM-650
TEST METHODS MANUAL

1 Scope This test method is designed to determine the resistance of the conformal coating to cracking and crazing when the coating is exposed to flexing.

2 Applicable Documents

IPC-CC-830 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies

FED-STD-141 Method 2012

3 Test Specimens

3.1 Four tin panels in accordance with FED-STD-141, Method 2012. Electroplated tin is also acceptable.

4 Apparatus

4.1 Tin panels coated with conformal coating according to the coating supplier's recommendations.

4.2 Mandrel, 0.3 cm [0.12 in] diameter

4.3 Magnifying apparatus, capable of supplying 10X magnification

5 Procedure

5.1 Place the tin panel on a flat surface.

5.1.1 Place the 0.3 cm [0.12 in] mandrel, in a stationary position, in the center of the test panel.

5.1.2 Select one end of the test panel and within one second bend the panel 180° over the mandrel.

5.2 Evaluation

5.2.1 Following the folding procedure, the test panel shall then be examined with 10X magnification for cracking and crazing.