## NOVEMBER 24, 1987

TEST REPORT # 002

CONTACT RESISTANCE, GOLD THICKNESS, NORMAL FORCE, AND INSERTION /WITHDRAWAL AS A FUNCTION OF BOARD INSERTION

SULLINS SALES DEPARTMENT

APPROVED BY: NOP BOONSUE ENGINEERING AND QUALITY ASSURANCE MANAGER SULLINS ELECTRONICS CORPORATION



### SCOPE

To perform contact resistance, gold thickness, and insertion / withdrawal testing on the edge card connectors as manufactured by Sullins Electronics Corporation and submitted by the test sponsor, Sullins Electronics Sales Department.

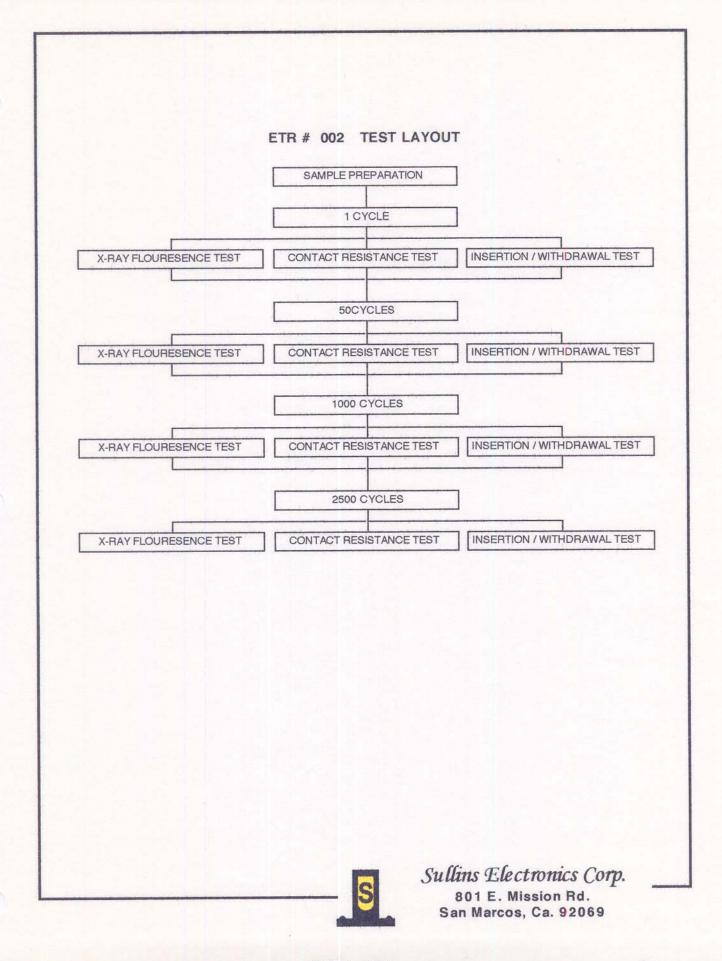
# TEST SAMPLES AND PREPARATION

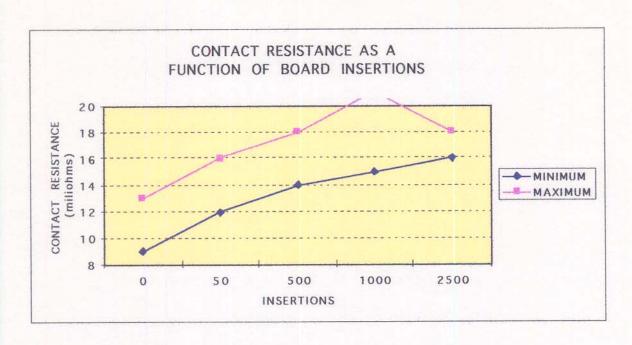
1. The following samples were submitted by the manufacturer, Sullins Electronics, for evaluation by Sullins Test Laboratories.

Quantity	Part Number
1	EZC43DCTN

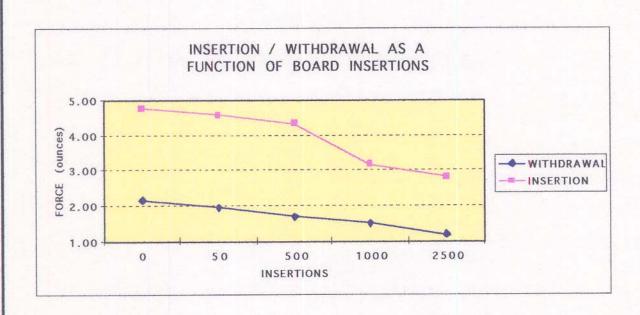
- Unless otherwise indicated, all materials were certified by the manufacturer to be in accordance with the applicable product specification.
- 3. Applicable edge cards were obtained by Sullins Test Labs and prepared accordingly.
- 4. These edgeboards were manufactured in the form of standard .062" thick boards with an outer plating of gold on the contact pads.
- 5. The test samples and edge cards had wires soldered to the appropriate terminations or contact pads.
- The test samples were cycled with a .062" steel test blade to the number of cycles desired and then tested.
- 7. The first test consisted of having current run through the contact point and measuring the voltage drop at the specified intervals.
- 8. The second test consisted of having the gold thickness tested at the specified intervals.
- 9. The third test consisted of having the insertion and withdrawal forces tested at the specified intervals.





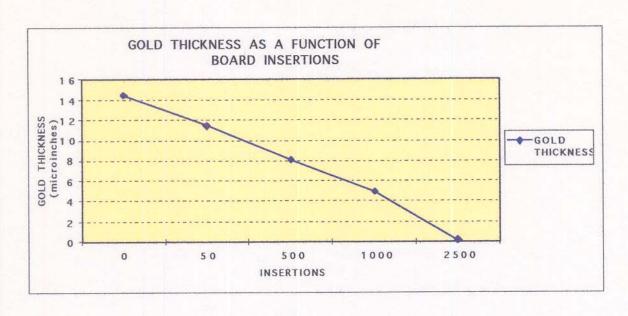


\*\* CONTACT RESISTANCE MEASURED ON CONTACT NUMBERS 1, A, 2, Z, 43 AND X.



\*\* INSERTION / WITHDRAWAL MEASURED ON CONTACT NUMBERS 1, A, 2, Z, 43 AND X.





\*\* GOLD THICKNESS MEASURED ON CONTACT NUMBERS 9, 16, 17, 18 AND 27.

## **EQUIPMENT LIST**

BIA BATE	
NAME	

## 1. DC POWER SUPPLY

#### 2. DIGITAL MULTIMETER

- 3. PCB AUTO INSERTION MACHINE
- 4. PUSH-PULL FORCE GAUGE
- 5. X-RAY FLUORESCENCE MACHINE

## **BRAND AND MODEL**

HEWLETT PACKARD MPB MODEL 6282 A

KEITHLY 177 MICROVOLT DMM

SULLINS ELECTRONICS CORP.

JOHN CHATILLON & SONS MODEL DPP

TWIN CITIES INT. TWINTEST XRF



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#### NAME

## BRAND AND MODEL

DC POWER SUPPLY

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2. DIGITAL MULTIMETER KEITHLY 177 MICROVOLT DMM

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MACHINE

5. X-RAY FLUORESCENCE TWIN CITIES INT. TWINTEST XRF

