

APRIL 20, 1988

TEST REPORT # 010

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

SULLINS SALES DEPARTMENT

APPROVED BY : NOP BOONSUE
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SULLINS ELECTRONICS CORPORATION



Sullins Electronics Corp.

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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	<u>Part Number</u>
1	EZC25DCAH

Test also applies to the following part numbers because components of same type:

EZC25DCMD
EZC19DCMH-S288
EZC14DCAS-S189
EZC25DCAS-S189

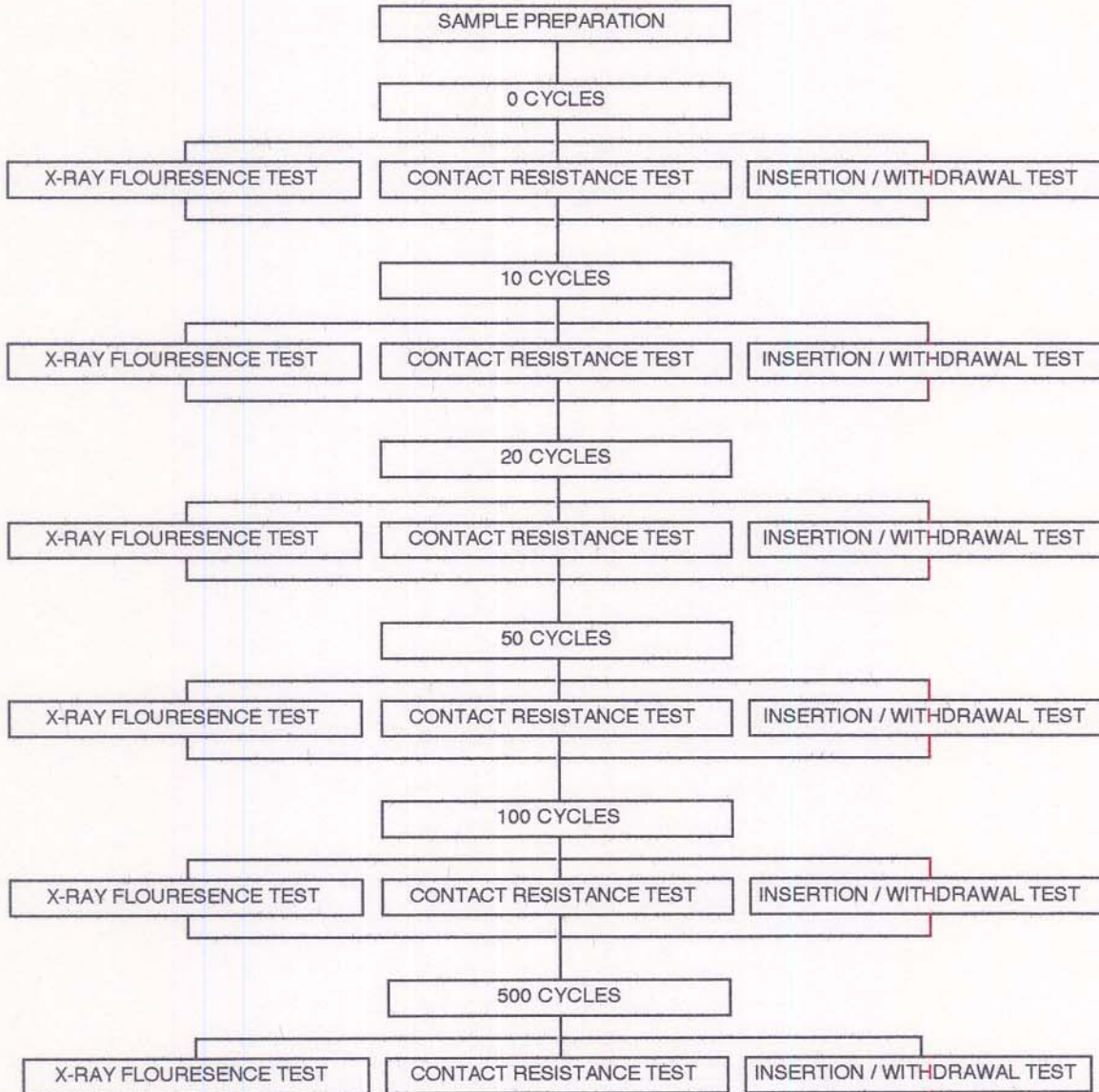
2. Unless otherwise indicated, all materials were certified by the manufacturer to be in accordance with the applicable product specification.
3. Applicable edge cards were obtained by Sullins Test Labs and prepared accordingly.
4. These edgeboards were manufactured in the form of standard .062" thick 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.
6. 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 last test consisted of having the insertion / withdrawal forces tested.



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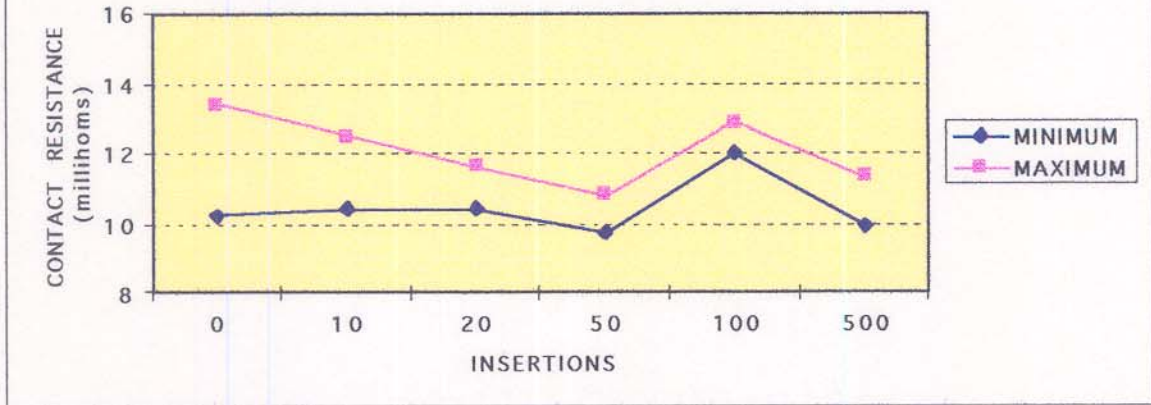
ETR # 010 TEST LAYOUT



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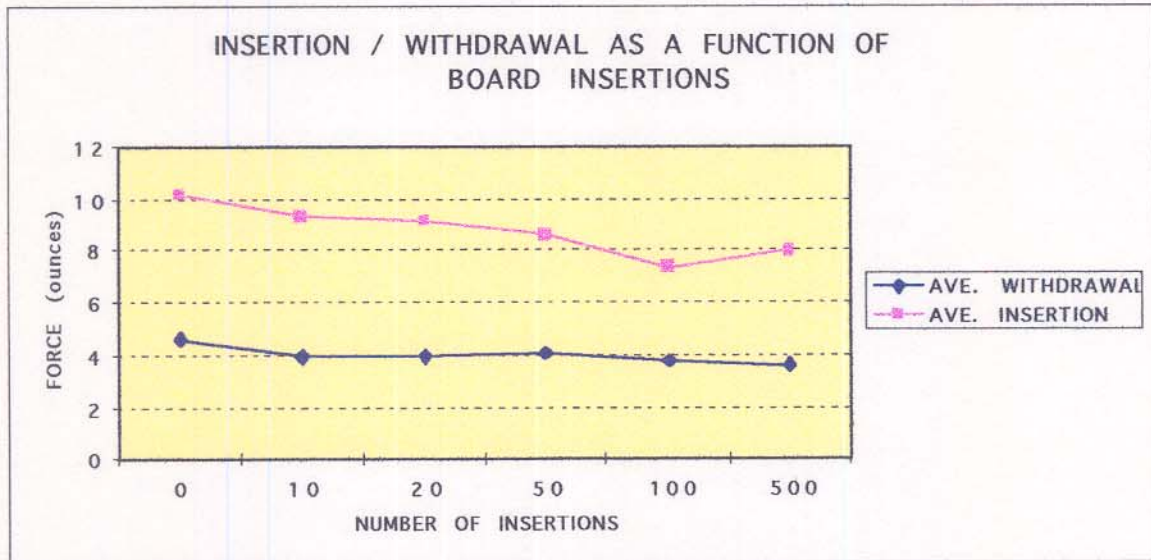
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CONTACT RESISTANCE AS A
FUNCTION OF BOARD INSERTIONS



** CONTACT RESISTANCE MEASURED ON CONTACT
POSITIONS 3, 25, AND 45 ON BOTH SIDES.

INSERTION / WITHDRAWAL AS A FUNCTION OF
BOARD INSERTIONS

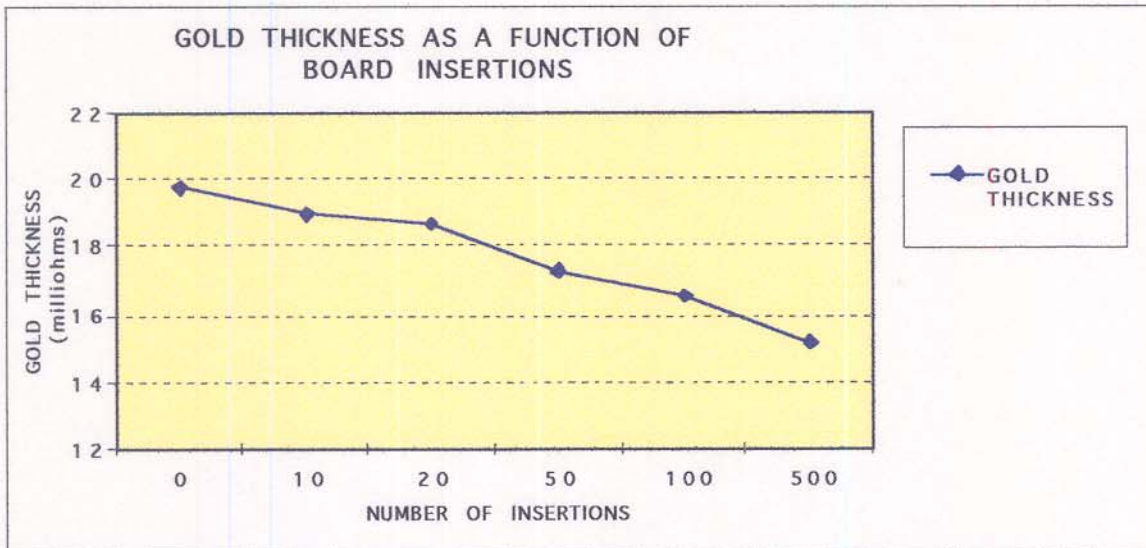


** INSERTION / WITHDRAWAL MEASURED ON CONTACT
POSITIONS 3, 25, AND 45 ON BOTH SIDES.



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** GOLD THICKNESS MEASURED AT POINT OF WEAR
 ** GOLD THICKNESS MEASURED ON DIFFERENT CONTACTS

EQUIPMENT LIST

<u>NAME</u>	<u>BRAND AND MODEL</u>
1. DC POWER SUPPLY	HEWLETT PACKARD MPB MODEL 6282 A
2. DIGITAL MULTIMETER	KEITHLY 177 MICROVOLT DMM
3. PCB AUTO INSERTION MACHINE	SULLINS ELECTRONICS CORP.
4. PUSH-PULL FORCE GAUGE	JOHN CHATILLON & SONS MODEL DPP
5. X-RAY FLUORESCENCE MACHINE	TWIN CITIES INT. TWINTEST XRF



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