

## ABNORMAL TEST RESULT

OF MODEL LFA10F

1. Did Cheese Cloth or Paper Glow?

No.

2. Did Ground Fuse Open?

No.

3. Dielectric breakdown?

No.

4. Other Results?

See the following pages .

( FMEA : 2/ 8 ~ 6/ 8)

( Abnormal Test Result: 7/ 8 ~ 8/ 8)

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.

F M E A

| Component | Mode  |                   | Comment                 | Output Voltage (V) |
|-----------|-------|-------------------|-------------------------|--------------------|
| C101      | Open  |                   | Normal operation.       |                    |
|           | Short |                   | F101 opened, No hazard. | AVR1:0             |
| C103      | Open  |                   | See 7 Page.             |                    |
|           | Short |                   | See 7 Page.             |                    |
| C104      | Open  |                   | Normal operation.       |                    |
|           | Short |                   | No Hazard.              | AVR1:0             |
| C105      | Open  |                   | Normal operation.       |                    |
|           | Short |                   | Normal operation.       |                    |
| C106      | Open  |                   | No Hazard.              | AVR1:0             |
|           | Short |                   | No Hazard.              | AVR1:0             |
| C107      | Open  |                   | Normal operation.       |                    |
|           | Short |                   | No Hazard.              | AVR1:0             |
| C108      | Open  |                   | Normal operation.       |                    |
|           | Short |                   | No Hazard.              | AVR1:0             |
| C109      | Open  | Except-12, 15, 24 | Normal operation.       |                    |
|           | Short | Except-12, 15, 24 | No Hazard.              | AVR1:0             |
| C501      | Open  | Except-3R3-Y      | Normal operation.       |                    |
|           | Short | Except-3R3-Y      | Normal operation.       |                    |
| C502      | Open  | Except-3R3-Y      | Normal operation.       |                    |
|           | Short | Except-3R3-Y      | Normal operation.       |                    |
| C503      | Open  |                   | See 7 Page.             |                    |
|           | Short |                   | No Hazard.              | AVR1:0             |
| C504      | Open  | Except-12, 15, 24 | See 7 Page.             |                    |
|           | Short | Except-12, 15, 24 | No Hazard.              | AVR1:0             |

F M E A

| Component | Mode  |                   | Comment                                 | Output Voltage (V) |
|-----------|-------|-------------------|---|--------------------|
| C508      | Open  |                   | See 7 Page.                             |                    |
|           | Short |                   | No Hazard.                              | AVR1:0             |
| C509      | Open  |                   | Normal operation.                       |                    |
|           | Short |                   | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
| C510      | Open  | Except-12, 15, 24 | Normal operation.                       |                    |
|           | Short | Except-12, 15, 24 | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
| C511      | Open  | Except-12, 15, 24 | Normal operation.                       |                    |
|           | Short | Except-12, 15, 24 | No Hazard.                              | AVR1:0             |
| C514      | Open  |                   | Normal operation.                       |                    |
|           | Short |                   | No Hazard.                              | AVR1:0             |
| D101      | Open  |                   | Normal operation.                       |                    |
|           | Short |                   | See 7 Page.                             |                    |
| D102      | Open  |                   | No Hazard.                              | AVR1:0             |
|           | Short |                   | No Hazard.                              | AVR1:0             |
| D501      | Open  |                   | See 7 Page.                             |                    |
|           | Short |                   | See 7 Page.                             |                    |
| IC101     | Open  | 1 (CNT)           | See 7 Page.                             |                    |
|           |       | 2 (S)             | See 7 Page.                             |                    |
|           |       | 3 (D)             | See 7 Page.                             |                    |
|           | Short | 1 (CNT)-2 (S)     | See 7 Page.                             |                    |
|           |       | 1 (CNT)-3 (D)     | See 7 Page.                             |                    |
|           |       | 2 (S)-3 (D)       | See 7 Page.                             |                    |
| IC501     | Open  | K                 | No Hazard.                              | AVR1:0             |
|           |       | A                 | No Hazard.                              | AVR1:0             |

F M E A

| Component | Mode  |                    | Comment                                 | Output Voltage (V) |
|-----------|-------|--------------------|---|--------------------|
| IC501     | Open  | R                  | No Hazard.                              | AVR1:0             |
|           | Short | A-K                | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
|           |       | K-R                | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
|           |       | R-A                | No Hazard.                              | AVR1:0             |
| L101      | Open  |                    | No Hazard.                              | AVR1:0             |
|           | Short |                    | Normal operation.                       |                    |
| L102      | Open  |                    | No Hazard.                              | AVR1:0             |
|           | Short |                    | Normal operation.                       |                    |
| L103      | Open  | Except-12, 15, 24  | Normal operation.                       |                    |
| L501      | Open  |                    | See 7 Page.                             |                    |
|           | Short |                    | Normal operation.                       |                    |
| PC101     | Open  | A, K               | No Hazard.                              | AVR1:0             |
|           |       | C, E               | No Hazard.                              | AVR1:0             |
|           | Short | A-K                | No Hazard.                              | AVR1:0             |
|           |       | C-E                | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
| PC102     | Open  | A, K               | No Hazard.                              | AVR1:0             |
|           |       | C, E               | No Hazard.                              | AVR1:0             |
|           | Short | A-K                | No Hazard.                              | AVR1:0             |
|           |       | C-E                | No Hazard.                              | AVR1:0             |
| SS101     | Open  |                    | No Hazard.                              | AVR1:0             |
|           | Short |                    | F101 opened, No hazard.                 | AVR1:0             |
| T101      | Open  | 1 (, 2) or (3, ) 4 | See 7 Page.                             |                    |
|           |       | 5 or 7             | See 7 Page.                             |                    |
|           |       | 8 or 9             | See 7 Page.                             |                    |

F M E A

| Component | Mode  |                  | Comment                                 | Output Voltage (V)   |
|-----------|-------|------------------|---|----------------------|
| T101      | Short | 2-4              | See 7 Page.                             |                      |
|           |       | 5-7              | See 7 Page.                             |                      |
|           |       | 7-8              | See 7 Page.                             |                      |
|           |       | 8-9              | See 7 Page.                             |                      |
| TR101     | Open  | C                | Normal operation.                       |                      |
|           |       | E                | Normal operation.                       |                      |
|           |       | B                | Normal operation.                       |                      |
|           | Short | C-E              | No Hazard.                              | AVR1:0               |
|           |       | E-B              | Normal operation.                       |                      |
|           |       | B-C              | No Hazard.                              | AVR1:0               |
| TR102     | Open  | C                | Normal operation.                       |                      |
|           |       | E                | Normal operation.                       |                      |
|           |       | B                | Normal operation.                       |                      |
|           | Short | C-E              | No Hazard.                              | AVR1:0               |
|           |       | E-B              | Normal operation.                       |                      |
|           |       | B-C              | No Hazard.                              | AVR1:0               |
| VR601     | Open  | brush Only-3R3-Y | Output voltage decreased.<br>No hazard. | AVR1:decreased       |
|           |       | Only-3R3-Y       | Output voltage decreased.<br>No hazard. | AVR1:decreased       |
|           | Short | Only-3R3-Y       | Output voltage increased.<br>No hazard. | AVR1:increased(120%) |
| ZD501     | Open  |                  | Normal operation.                       |                      |
|           | Short |                  | No Hazard.                              | AVR1:0               |
| ZD503     | Open  |                  | Normal operation.                       |                      |
|           | Short |                  | No Hazard.                              | AVR1:0               |
| R101      | Open  |                  | Normal operation.                       |                      |

F M E A

| Component | Mode |              | Comment                                 | Output Voltage (V) |
|-----------|------|--------------|---|--------------------|
| R102      | Open |              | Normal operation.                       |                    |
| R103      | Open |              | Normal operation.                       |                    |
| R104      | Open |              | Normal operation.                       |                    |
| R105      | Open |              | Normal operation.                       |                    |
| R106      | Open |              | Normal operation.                       |                    |
| R109      | Open |              | Normal operation.                       |                    |
| R110      | Open |              | Normal operation.                       |                    |
| R111      | Open |              | No Hazard.                              | AVR1:0             |
| R112      | Open |              | Normal operation.                       |                    |
| R113      | Open |              | Normal operation.                       |                    |
| R501      | Open |              | Normal operation.                       |                    |
| R502      | Open |              | Normal operation.                       |                    |
| R507      | Open |              | Normal operation.                       |                    |
| R508      | Open |              | Normal operation.                       |                    |
| R511      | Open |              | Normal operation.                       |                    |
| R512      | Open |              | No Hazard.                              | AVR1:0             |
| R513      | Open |              | No Hazard.                              | AVR1:0             |
| R514      | Open |              | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
| R515      | Open | Except-3R3-Y | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
| R516      | Open |              | Normal operation.                       |                    |
| R517      | Open |              | Normal operation.                       |                    |
| R518      | Open |              | Normal operation.                       |                    |
| R519      | Open | Except-3R3-Y | See 8 Page.                             |                    |

ABNORMAL TEST RESULT

| Component | Mode  |                                       | Comment                                 | Output Voltage (V) |
|-----------|-------|---------------------------------------|---|--------------------|
| C103      | Open  |                                       | No Hazard.                              | AVR1:0             |
|           | Short |                                       | F101 opened, No hazard.                 | AVR1:0             |
| C503      | Open  | Only-3R3-Y, 5                         | Normal operation.                       |                    |
|           |       | Only-12, 15, 24                       | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
| C504      | Open  | Except-12, 15, 24                     | Normal operation.                       |                    |
| C508      | Open  |                                       | Output voltage decreased.<br>No hazard. | AVR1:decreased     |
| D101      | Short |                                       | No Hazard.                              | AVR1:0             |
| D501      | Open  |                                       | No Hazard.                              | AVR1:0             |
|           | Short |                                       | No Hazard.                              | AVR1:0             |
| IC101     | Open  | 1 (CNT)                               | No Hazard.                              | AVR1:0             |
|           |       | 2 (S)                                 | R113 opened, No hazard.                 | AVR1:0             |
|           |       | 3 (D)                                 | No Hazard.                              | AVR1:0             |
|           | Short | 1 (CNT)-2 (S)                         | No Hazard.                              | AVR1:0             |
|           |       | 1 (CNT)-3 (D)                         | F101 opened, No hazard.                 | AVR1:0             |
|           |       | 2 (S)-3 (D)                           | F101 opened, No hazard.                 | AVR1:0             |
| L501      | Open  |                                       | No Hazard.                              | AVR1:0             |
| T101      | Open  | 1 (, 2) or (3, ) 4<br>Only-3R3-Y, 5   | Normal operation.                       |                    |
|           |       | 1 (, 2) or (3, ) 4<br>Only-12, 15, 24 | No Hazard.                              | AVR1:0             |
|           |       | 5or7                                  | No Hazard.                              | AVR1:0             |
|           |       | 8or9                                  | No Hazard.                              | AVR1:0             |
|           | Short | 2-4                                   | No Hazard.                              | AVR1:0             |
|           |       | 5-7                                   | No Hazard.                              | AVR1:0             |
|           |       | 7-8                                   | F101 opened, No hazard.                 | AVR1:0             |
|           |       | 8-9                                   | Output voltage decreased.<br>No hazard. | AVR1:decreased     |



ABNORMAL TEST RESULT

| Component | Mode |              | Comment           | Output Voltage (V) |
|-----------|------|--------------|-------------------|--------------------|
| R519      | Open | Except-3R3-Y | Normal operation. |                    |