

ABNORMAL TEST RESULT

OF MODEL LGA50A

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 : 2/11 ~ 10/11)

(Abnormal Test Result: 11/11 ~ 11/11)

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 |
| C111 | Open | | Normal operation. | |
| | Short | | F101 opened, No hazard. | AVR1:0 |
| C112 | Open | | Normal operation. | |
| | Short | | F101 opened, No hazard. | AVR1:0 |
| C201 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| C202 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| C203 | Open | | No Hazard. | AVR1:0 |
| | Short | | No Hazard. | AVR1:0 |
| C204 | Open | | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | | Normal operation. | |
| C205 | Open | Only -3R3, -5 | Normal operation. | |
| | Short | Only -3R3, -5 | Normal operation. | |
| C206 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| C207 | Open | | No Hazard. | AVR1:0 |
| | Short | | No Hazard. | AVR1:0 |
| C208 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| C209 | Open | | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | | Normal operation. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|--------------------|---|--------------------|
| C211 | Open | | See 10 Page. | |
| | Short | | See 10 Page. | |
| C212 | Open | | Normal operation. | |
| | Short | | See 10 Page. | |
| C501 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| C502 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| C503 | Open | | See 10 Page. | |
| | Short | | See 10 Page. | |
| C504 | Open | | Normal operation. | |
| | Short | | See 10 Page. | |
| C506 | Open | | See 10 Page. | |
| | Short | | No Hazard. | AVR1:0 |
| C507 | Open | Except-24 | Normal operation. | |
| | Short | Except-24 | No Hazard. | AVR1:0 |
| C601 | Open | Except -3R3, -5 | Normal operation. | |
| | Short | Except -3R3, -5 | Output voltage decreased. No hazard. | AVR1:decreased |
| C602 | Open | Except -3R3, -5 | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | Except -3R3, -5 | Output voltage decreased. No hazard. | AVR1:decreased |
| C603 | Open | Only -3R3, -5 | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | Only -3R3, -5 | Output voltage decreased. No hazard. | AVR1:decreased |
| D201 | Open | | Normal operation. | |
| | Short | | Output voltage decreased. No hazard. | AVR1:decreased |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|----|---|--------------------|
| D204 | Open | | No Hazard. | AVR1:0 |
| | Short | | No Hazard. | AVR1:0 |
| D205 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| D210 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| IC201 | Open | 1 | No Hazard. | AVR1:0 |
| | | 2 | No Hazard. | AVR1:0 |
| | | 3 | F101 opened, No hazard. | AVR1:0 |
| | | 4 | Normal operation. | |
| | | 5 | Normal operation. | |
| | | 6 | Normal operation. | |
| | | 7 | Normal operation. | |
| | | 8 | Normal operation. | |
| | | 9 | Normal operation. | |
| | | 10 | No Hazard. | AVR1:0 |
| | | 11 | No Hazard. | AVR1:0 |
| | | 12 | Output voltage decreased. No hazard. | AVR1:decreased |
| | | 13 | Output voltage decreased. No hazard. | AVR1:decreased |
| | | 14 | Normal operation. | |
| | | 15 | Normal operation. | |
| | | 16 | Normal operation. | |
| | | 17 | No Hazard. | AVR1:0 |
| | | 18 | Output voltage decreased. No hazard. | AVR1:decreased |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------|---|--------------------|
| IC201 | Open | 19 | Output voltage decreased. No hazard. | AVR1:decreased |
| | | 20 | No Hazard. | AVR1:0 |
| | Short | 1-2 | Normal operation. | |
| | | 2-3 | No Hazard. | AVR1:0 |
| | | 3-4 | Normal operation. | |
| | | 4-5 | Normal operation. | |
| | | 5-6 | Normal operation. | |
| | | 6-7 | Normal operation. | |
| | | 7-8 | Normal operation. | |
| | | 8-9 | Normal operation. | |
| | | 9-10 | No Hazard. | AVR1:0 |
| | | 11-12 | No Hazard. | AVR1:0 |
| | | 12-13 | No Hazard. | AVR1:0 |
| | | 13-14 | Normal operation. | |
| | | 14-15 | Normal operation. | |
| | | 17-18 | Normal operation. | |
| | | 18-19 | Normal operation. | |
| | | 19-20 | No Hazard. | AVR1:0 |
| IC601 | Open | K | No Hazard. | AVR1:0 |
| | | A | No Hazard. | AVR1:0 |
| | | R | No Hazard. | AVR1:0 |
| | Short | A-K | Output voltage decreased. No hazard. | AVR1:decreased |
| | | K-R | Output voltage decreased. No hazard. | AVR1:decreased |
| | | R-A | No Hazard. | AVR1:0 |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|--------------------|---|--------------------|
| J201 | Open | | No Hazard. | AVR1:0 |
| J202 | Open | Except -3R3, -5 | Normal operation. | |
| J203 | Open | | Normal operation. | |
| J204 | Open | | No Hazard. | AVR1:0 |
| J205 | Open | | F101 opened, No hazard. | AVR1:0 |
| J501 | Open | | No Hazard. | AVR1:0 |
| J601 | Open | | No Hazard. | AVR1:0 |
| J602 | Open | | No Hazard. | AVR1:0 |
| L101 | Open | | No Hazard. | AVR1:0 |
| | Short | | Normal operation. | |
| L507 | Open | | No Hazard. | AVR1:0 |
| | Short | | Output voltage decreased. No hazard. | AVR1:decreased |
| PC201 | Open | A, K | Normal operation. | |
| | | C, E | Normal operation. | |
| | Short | A-K | Normal operation. | |
| | | C-E | No Hazard. | AVR1:0 |
| PC202 | 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 |
| SS501 | Open | Cathode | See 10 Page. | |
| | | Alternative | See 10 Page. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|---------|---|--------------------|
| SS501 | Short | | No Hazard. | AVR1:0 |
| T101 | Open | 1or2 | No Hazard. | AVR1:0 |
| | | 3or4 | No Hazard. | AVR1:0 |
| | | 5or6 | Normal operation. | |
| | | 7or8 | Normal operation. | |
| | Short | 1-2 | See 10 Page. | |
| | | 2-3 | See 10 Page. | |
| | | 3-4 | See 10 Page. | |
| | | 6-7 | See 10 Page. | |
| | | 8-9 | See 10 Page. | |
| TH101 | Open | | No Hazard. | AVR1:0 |
| | Short | | Normal operation. | |
| TR201 | Open | D | See 10 Page. | |
| | | S | See 10 Page. | |
| | | G | See 10 Page. | |
| | Short | D-S | See 10 Page. | |
| | | S-G | See 10 Page. | |
| | | G-D | See 10 Page. | |
| ZD201 | Open | | Normal operation. | |
| | Short | | Output voltage decreased. No hazard. | AVR1:decreased |
| ZD601 | Open | | Normal operation. | |
| | Short | | No Hazard. | AVR1:0 |
| ZD602 | Open | Only-48 | Normal operation. | |
| | Short | Only-48 | Normal operation. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|--------------------|---|--------------------|
| ZD603 | Open | Only-48 | No Hazard. | |
| | Short | Only-48 | Output voltage decreased. No hazard. | |
| R101 | Open | | Normal operation. | |
| R102 | Open | | Normal operation. | |
| R103 | Open | | Normal operation. | |
| R106 | Open | | Normal operation. | |
| R107 | Open | | Normal operation. | |
| R108 | Open | | Normal operation. | |
| R109 | Open | | Normal operation. | |
| R201 | Open | | Normal operation. | |
| R202 | Open | | No Hazard. | AVR1:0 |
| R203 | Open | | Output voltage decreased. No hazard. | AVR1:decreased |
| R204 | Open | Except -3R3, -5 | Output voltage decreased. No hazard. | AVR1:decreased |
| R205 | Open | | Normal operation. | |
| R206 | Open | | Normal operation. | |
| R207 | Open | | Normal operation. | |
| R208 | Open | | Normal operation. | |
| R209 | Open | | Normal operation. | |
| R210 | Open | | Normal operation. | |
| R211 | Open | | Normal operation. | |
| R212 | Open | | Normal operation. | |
| R216 | Open | | Normal operation. | |
| R217 | Open | | Normal operation. | |
| R218 | Open | | See 10 Page. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|------|--------------------|---|--------------------|
| R219 | Open | | See 10 Page. | |
| R221 | Open | | No Hazard. | AVR1:0 |
| R222 | Open | | No Hazard. | AVR1:0 |
| R223 | Open | | No Hazard. | AVR1:0 |
| R231 | Open | | Normal operation. | |
| R232 | Open | | Normal operation. | |
| R233 | Open | | Normal operation. | |
| R234 | Open | | Normal operation. | |
| R507 | Open | | Normal operation. | |
| R508 | Open | | Normal operation. | |
| R509 | Open | | Normal operation. | |
| R510 | Open | | Normal operation. | |
| R521 | Open | | Normal operation. | |
| R522 | Open | | Normal operation. | |
| R523 | Open | | Normal operation. | |
| R524 | Open | | Normal operation. | |
| R601 | Open | | Normal operation. | |
| R603 | Open | | No Hazard. | AVR1:0 |
| R604 | Open | Except -3R3, -5 | Normal operation. | |
| R605 | Open | | Normal operation. | |
| R606 | Open | | Output voltage decreased. No hazard. | AVR1:decreased |
| R607 | Open | | No Hazard. | AVR1:0 |
| R608 | Open | | No Hazard. | AVR1:0 |
| R609 | Open | | Output voltage decreased. No hazard. | AVR1:decreased |



F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-------------|-------|------------|---|--------------------|
| R610 | Open | Except-3R3 | Output voltage decreased. No hazard. | AVR1:decreased |
| VR601 brush | Open | Only-3R3 | Output voltage decreased. No hazard. | AVR1:decreased |
| VR601 | Open | Only-3R3 | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | Only-3R3 | No Hazard. | AVR1:0 |

ABNORMAL TEST RESULT

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-------------|---|--------------------|
| C211 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| C212 | Short | | Normal operation. | |
| C503 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| C504 | Short | | Normal operation. | |
| C506 | Open | | Output voltage decreased. No hazard. | AVR1:decreased |
| SS501 | Open | Cathode | No Hazard. | AVR1:0 |
| | | Alternative | No Hazard. | AVR1:0 |
| T101 | Short | 1-2 | No Hazard. | AVR1:0 |
| | | 2-3 | No Hazard. | AVR1:0 |
| | | 3-4 | No Hazard. | AVR1:0 |
| | | 6-7 | No Hazard. | AVR1:0 |
| | | 8-9 | No Hazard. | AVR1:0 |
| TR201 | Open | D | No Hazard. | AVR1:0 |
| | | S | No Hazard. | AVR1:0 |
| | | G | No Hazard. | AVR1:0 |
| | Short | D-S | No Hazard. | AVR1:0 |
| | | S-G | No Hazard. | AVR1:0 |
| | | G-D | No Hazard. | AVR1:0 |
| R218 | Open | | Normal operation. | |
| R219 | Open | | Normal operation. | |