

ABNORMAL TEST RESULT

OF MODEL TUNS50F

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 : 2/26 ~ 23/26)

(Abnormal Test Result: 24/26 ~ 26/26)

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) |
|-----------|-------|---|--------------------|
| C51 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C52 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C61 | Open | Normal operation. | |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased |
| C62 | Open | Normal operation. | |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased |
| C63 | Open | Normal operation. | |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased |
| C64 | Open | Normal operation. | |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased |
| C65 | Open | Normal operation. | |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased |
| C101 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C102 | Open | Normal operation. | |
| | Short | See 24 Page. | |
| C111 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C112 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C113 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|-------------------------------------|--------------------|
| C114 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C121 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C122 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C123 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C141 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C142 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C143 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C144 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C145 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C161 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C171 | Open | Normal operation. | |
| | Short | External fuse opened. No hazard. | AVR1:0 |
| C172 | Open | Normal operation. | |
| | Short | External fuse opened. No hazard. | AVR1:0 |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|---|--------------------|
| C201 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C202 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C203 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C211 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | See 24 Page. | |
| C231 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C232 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C233 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C241 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C242 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C243 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | No Hazard. | AVR1:0 |
| C244 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C251 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|---|--------------------|
| C261 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | Normal operation. | |
| C301 | Open | Normal operation. | |
| | Short | External fuse opened. No hazard. | AVR1:0 |
| C302 | Open | Normal operation. | |
| | Short | External fuse opened. No hazard. | AVR1:0 |
| C401 | Open | See 24 Page. | |
| | Short | See 24 Page. | |
| C402 | Open | See 24 Page. | |
| | Short | See 24 Page. | |
| C501 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased |
| C502 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C504 | Open | Normal operation. | |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased |
| C505 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| | Short | Output voltage decreased. No hazard. | AVR1:decreased |
| C506 | Open | Normal operation. | |
| | Short | No Hazard. | AVR1:0 |
| C601 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C602 | Open | Normal operation. | |
| | Short | Normal operation. | |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|-------------------------------------|--------------------|
| C603 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C604 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C605 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C606 | Open | Normal operation. | |
| | Short | Normal operation. | |
| C701 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D11 | Open | Normal operation. | |
| | Short | External fuse opened. No hazard. | AVR1:0 |
| D12 | Open | Normal operation. | |
| | Short | External fuse opened. No hazard. | AVR1:0 |
| D101 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D111 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D112 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D113 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D121 | Open | Normal operation. | |
| | Short | Normal operation. | |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|-------|-------------------------------------|--------------------|
| D201 | Open | Normal operation. | |
| | Short | See 24 Page. | |
| D202 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D211 | Open | See 24 Page. | |
| | Short | See 24 Page. | |
| D231 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D232 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D251 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D261 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D301 | Open | Normal operation. | |
| | Short | External fuse opened. No hazard. | AVR1:0 |
| D302 | Open | Normal operation. | |
| | Short | External fuse opened. No hazard. | AVR1:0 |
| D303 | Open | No Hazard. | AVR1:0 |
| | Short | External fuse opened. No hazard. | AVR1:0 |
| D304 | Open | Normal operation. | |
| | Short | Normal operation. | |
| D305 | Open | Normal operation. | |
| | Short | Normal operation. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------|--------------------|
| D401 | Open | | See 24 Page. | |
| | Short | | See 24 Page. | |
| D402 | Open | | Normal operation. | |
| | Short | | See 24 Page. | |
| D403 | Open | | See 24 Page. | |
| | Short | | See 24 Page. | |
| D501 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| D502 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| IC101 | Open | 1 | No Hazard. | AVR1:0 |
| | | 2 | Normal operation. | |
| | | 3 | Normal operation. | |
| | | 4 | Normal operation. | |
| | | 5 | Normal operation. | |
| | | 6 | No Hazard. | AVR1:0 |
| | | 7 | No Hazard. | AVR1:0 |
| | | 8 | No Hazard. | AVR1:0 |
| | Short | 1-2 | See 24 Page. | |
| | | 2-3 | See 24 Page. | |
| | | 3-4 | See 24 Page. | |
| | | 5-6 | See 24 Page. | |
| | | 6-7 | See 24 Page. | |
| | | 7-8 | See 24 Page. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------|--------------------|
| IC102 | Open | 1 | Normal operation. | |
| | | 2 | No Hazard. | AVR1:0 |
| | | 3 | Normal operation. | |
| | | 4 | Normal operation. | |
| | | 5 | Normal operation. | |
| | | 6 | No Hazard. | AVR1:0 |
| | | 7 | Normal operation. | |
| | | 8 | Normal operation. | |
| | Short | 1-2 | No Hazard. | AVR1:0 |
| | | 2-3 | No Hazard. | AVR1:0 |
| | | 3-4 | Normal operation. | |
| | | 5-6 | No Hazard. | AVR1:0 |
| | | 6-7 | No Hazard. | AVR1:0 |
| | | 7-8 | No Hazard. | AVR1:0 |
| IC201 | Open | 1 | See 24 Page. | |
| | | 2 | No Hazard. | AVR1:0 |
| | | 3 | Normal operation. | |
| | | 4 | No Hazard. | AVR1:0 |
| | | 5 | No Hazard. | AVR1:0 |
| | | 6 | No Hazard. | AVR1:0 |
| | | 7 | Normal operation. | |
| | | 8 | Normal operation. | |
| | Short | 1-2 | See 24 Page. | |
| | | 2-3 | See 24 Page. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|------|---|--------------------|
| IC201 | Short | 3-4 | Normal operation. | |
| | | 5-6 | External fuse opened. No hazard. | AVR1:0 |
| | | 6-7 | Normal operation. | |
| | | 7-8 | Normal operation. | |
| IC501 | Open | K | No Hazard. | AVR1:0 |
| | | R | No Hazard. | AVR1:0 |
| | | A | No Hazard. | AVR1:0 |
| | Short | K-R | Output voltage decreased. No hazard. | AVR1:decreased |
| | | R-A | No Hazard. | AVR1:0 |
| | | A-K | No Hazard. | AVR1:0 |
| IC701 | Open | 1 | Normal operation. | |
| | | 2 | Normal operation. | |
| | | 3 | Normal operation. | |
| | | 4 | Normal operation. | |
| | | 5 | Normal operation. | |
| | Short | 1-2 | Normal operation. | |
| | | 2-3 | Normal operation. | |
| | | 3-4 | No Hazard. | AVR1:0 |
| L11 | Open | | No Hazard. | AVR1:0 |
| | Short | | External fuse opened. No hazard. | AVR1:0 |
| L51 | Open | | No Hazard. | AVR1:0 |
| | Short | | Normal operation. | |
| PC201 | Open | A, K | No Hazard. | AVR1:0 |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|------|-------------------------------------|--------------------|
| PC201 | Open | C, E | No Hazard. | AVR1:0 |
| | Short | A-K | No Hazard. | AVR1:0 |
| | | C-E | No Hazard. | AVR1:0 |
| PC202 | Open | A, K | Normal operation. | |
| | | C, E | Normal operation. | |
| | Short | A-K | Normal operation. | |
| | | C-E | No Hazard. | AVR1:0 |
| PTH21 | Open | | No Hazard. | AVR1:0 |
| | Short | | Normal operation. | |
| SS51 | Open | | See 24 Page. | |
| | Short | | See 25 Page. | |
| T11 | Open | 1 | No Hazard. | AVR1:0 |
| | | 2 | No Hazard. | AVR1:0 |
| | | 3 | See 25 Page. | |
| | | 4 | See 25 Page. | |
| | | 5 | See 25 Page. | |
| | | 6 | See 25 Page. | |
| | Short | 1-2 | See 25 Page. | |
| | | 3-4 | See 25 Page. | |
| | | 5-6 | See 25 Page. | |
| TR11 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | Normal operation. | |
| | Short | D-S | External fuse opened. No hazard. | AVR1:0 |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------------------------|--------------------|
| TR11 | Short | S-G | Normal operation. | |
| | | G-D | External fuse opened. No hazard. | AVR1:0 |
| TR21 | Open | D | See 25 Page. | |
| | | S | See 25 Page. | |
| | | G | See 25 Page. | |
| | Short | D-S | See 25 Page. | |
| | | S-G | See 25 Page. | |
| | | G-D | See 25 Page. | |
| TR101 | Open | C | No Hazard. | AVR1:0 |
| | | E | No Hazard. | AVR1:0 |
| | | B | No Hazard. | AVR1:0 |
| | Short | C-E | Normal operation. | |
| | | E-B | Normal operation. | |
| | | B-C | Normal operation. | |
| TR102 | Open | C | Normal operation. | |
| | | E | Normal operation. | |
| | | B | Normal operation. | |
| | Short | C-E | Normal operation. | |
| | | E-B | Normal operation. | |
| | | B-C | Normal operation. | |
| TR103 | Open | C | Normal operation. | |
| | | E | Normal operation. | |
| | | B | Normal operation. | |
| | Short | C-E | Normal operation. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----------|-------------------|--------------------|
| TR103 | Short | E-B | Normal operation. | |
| | | B-C | Normal operation. | |
| TR111-1 | Open | C(6) | No Hazard. | AVR1:0 |
| | | E(1) | No Hazard. | AVR1:0 |
| | | B(2) | No Hazard. | AVR1:0 |
| | Short | C(6)-E(1) | Normal operation. | |
| | | E(1)-B(2) | No Hazard. | AVR1:0 |
| | | B(2)-C(6) | No Hazard. | AVR1:0 |
| TR111-2 | Open | C(3) | No Hazard. | AVR1:0 |
| | | E(4) | No Hazard. | AVR1:0 |
| | | B(5) | No Hazard. | AVR1:0 |
| | Short | C(3)-E(4) | No Hazard. | AVR1:0 |
| | | E(4)-B(5) | No Hazard. | AVR1:0 |
| | | B(5)-C(3) | No Hazard. | AVR1:0 |
| TR112-1 | Open | C(6) | No Hazard. | AVR1:0 |
| | | E(1) | No Hazard. | AVR1:0 |
| | | B(2) | No Hazard. | AVR1:0 |
| | Short | C(6)-E(1) | No Hazard. | AVR1:0 |
| | | E(1)-B(2) | No Hazard. | AVR1:0 |
| | | B(2)-C(6) | Normal operation. | |
| TR112-2 | Open | C(3) | No Hazard. | AVR1:0 |
| | | E(4) | No Hazard. | AVR1:0 |
| | | B(5) | No Hazard. | AVR1:0 |
| | Short | C(3)-E(4) | Normal operation. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----------|-------------------|--------------------|
| TR112-2 | Short | E(4)-B(5) | No Hazard. | AVR1:0 |
| | | B(5)-C(3) | Normal operation. | |
| TR131 | Open | C | No Hazard. | AVR1:0 |
| | | E | No Hazard. | AVR1:0 |
| | | B | No Hazard. | AVR1:0 |
| | Short | C-E | Normal operation. | |
| | | E-B | No Hazard. | AVR1:0 |
| | | B-C | Normal operation. | |
| TR132 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | Normal operation. | |
| | Short | D-S | No Hazard. | AVR1:0 |
| | | S-G | Normal operation. | |
| | | G-D | No Hazard. | AVR1:0 |
| TR133 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | Normal operation. | |
| | Short | D-S | No Hazard. | AVR1:0 |
| | | S-G | Normal operation. | |
| | | G-D | No Hazard. | AVR1:0 |
| TR141 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | Normal operation. | |
| | Short | D-S | No Hazard. | AVR1:0 |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------------------------|--------------------|
| TR141 | Short | S-G | Normal operation. | |
| | | G-D | No Hazard. | AVR1:0 |
| TR151 | Open | C | Normal operation. | |
| | | E | Normal operation. | |
| | | B | Normal operation. | |
| | Short | C-E | External fuse opened. No hazard. | AVR1:0 |
| | | E-B | Normal operation. | |
| | | B-C | External fuse opened. No hazard. | AVR1:0 |
| TR201 | Open | C | Normal operation. | |
| | | E | Normal operation. | |
| | | B | Normal operation. | |
| | Short | C-E | Normal operation. | |
| | | E-B | Normal operation. | |
| | | B-C | Normal operation. | |
| TR231 | 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 |
| TR232 | Open | C | Normal operation. | |
| | | E | Normal operation. | |
| | | B | Normal operation. | |
| | Short | C-E | No Hazard. | AVR1:0 |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------|--------------------|
| TR232 | Short | E-B | Normal operation. | |
| | | B-C | No Hazard. | AVR1:0 |
| TR233 | 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 |
| TR241 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | Normal operation. | |
| | Short | D-S | No Hazard. | AVR1:0 |
| | | S-G | Normal operation. | |
| | | G-D | No Hazard. | AVR1:0 |
| TR242 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | Normal operation. | |
| | Short | D-S | Normal operation. | |
| | | S-G | Normal operation. | |
| | | G-D | Normal operation. | |
| TR243 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | Normal operation. | |
| | Short | D-S | Normal operation. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------------------------|--------------------|
| TR243 | Short | S-G | Normal operation. | |
| | | G-D | Normal operation. | |
| TR251 | Open | C | Normal operation. | |
| | | E | No Hazard. | AVR1:0 |
| | | B | No Hazard. | AVR1:0 |
| | Short | C-E | External fuse opened. No hazard. | AVR1:0 |
| | | E-B | Normal operation. | |
| | | B-C | External fuse opened. No hazard. | AVR1:0 |
| TR252 | Open | C | Normal operation. | |
| | | E | External fuse opened. No hazard. | AVR1:0 |
| | | B | External fuse opened. No hazard. | AVR1:0 |
| | Short | C-E | No Hazard. | AVR1:0 |
| | | E-B | Normal operation. | |
| | | B-C | No Hazard. | AVR1:0 |
| TR261 | Open | C | Normal operation. | |
| | | E | Normal operation. | |
| | | B | Normal operation. | |
| | Short | C-E | Normal operation. | |
| | | E-B | Normal operation. | |
| | | B-C | Normal operation. | |
| TR301 | Open | D | See 25 Page. | |
| | | S | See 25 Page. | |
| | | G | See 25 Page. | |
| | Short | D-S | See 25 Page. | |

F M E A

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------|--------------------|
| TR301 | Short | S-G | See 25 Page. | |
| | | G-D | See 25 Page. | |
| TR401 | Open | D | See 25 Page. | |
| | | S | See 25 Page. | |
| | | G | See 25 Page. | |
| | Short | D-S | See 25 Page. | |
| | | S-G | See 26 Page. | |
| | | G-D | See 26 Page. | |
| ZD101 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| ZD102 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| ZD121 | Short | | See 26 Page. | |
| | Open | | See 26 Page. | |
| ZD161 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| ZD201 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| ZD202 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| R11 | Open | | Normal operation. | |
| R12 | Open | | Normal operation. | |
| R13 | Open | | Normal operation. | |
| R14 | Open | | Normal operation. | |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|------|-------------------|--------------------|
| R21 | Open | Normal operation. | |
| R22 | Open | Normal operation. | |
| R51 | Open | Normal operation. | |
| R52 | Open | Normal operation. | |
| R53 | Open | Normal operation. | |
| R101 | Open | Normal operation. | |
| R102 | Open | Normal operation. | |
| R103 | Open | Normal operation. | |
| R104 | Open | Normal operation. | |
| R105 | Open | Normal operation. | |
| R106 | Open | Normal operation. | |
| R111 | Open | No Hazard. | AVR1:0 |
| R112 | Open | No Hazard. | AVR1:0 |
| R113 | Open | Normal operation. | |
| R114 | Open | Normal operation. | |
| R115 | Open | Normal operation. | |
| R116 | Open | No Hazard. | AVR1:0 |
| R117 | Open | Normal operation. | |
| R121 | Open | Normal operation. | |
| R122 | Open | No Hazard. | AVR1:0 |
| R123 | Open | Normal operation. | |
| R124 | Open | See 26 Page. | |
| R125 | Open | Normal operation. | |
| R126 | Open | Normal operation. | |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|------|-------------------|--------------------|
| R127 | Open | No Hazard. | AVR1:0 |
| R131 | Open | Normal operation. | |
| R141 | Open | Normal operation. | |
| R143 | Open | Normal operation. | |
| R144 | Open | No Hazard. | AVR1:0 |
| R145 | Open | Normal operation. | |
| R151 | Open | Normal operation. | |
| R152 | Open | Normal operation. | |
| R153 | Open | Normal operation. | |
| R154 | Open | No Hazard. | AVR1:0 |
| R155 | Open | Normal operation. | |
| R156 | Open | Normal operation. | |
| R161 | Open | No Hazard. | AVR1:0 |
| R162 | Open | Normal operation. | |
| R171 | Open | No Hazard. | AVR1:0 |
| R172 | Open | No Hazard. | AVR1:0 |
| R173 | Open | No Hazard. | AVR1:0 |
| R174 | Open | No Hazard. | AVR1:0 |
| R175 | Open | No Hazard. | AVR1:0 |
| R176 | Open | No Hazard. | AVR1:0 |
| R201 | Open | Normal operation. | |
| R202 | Open | Normal operation. | |
| R211 | Open | See 26 Page. | |
| R212 | Open | See 26 Page. | |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|------|---|--------------------|
| R213 | Open | No Hazard. | AVR1:0 |
| R231 | Open | Normal operation. | |
| R232 | Open | No Hazard. | AVR1:0 |
| R233 | Open | Normal operation. | |
| R234 | Open | Normal operation. | |
| R235 | Open | No Hazard. | AVR1:0 |
| R241 | Open | Normal operation. | |
| R243 | Open | Normal operation. | |
| R245 | Open | Normal operation. | |
| R246 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| R251 | Open | No Hazard. | AVR1:0 |
| R252 | Open | Normal operation. | |
| R253 | Open | Normal operation. | |
| R254 | Open | Normal operation. | |
| R255 | Open | Normal operation. | |
| R256 | Open | Normal operation. | |
| R257 | Open | Normal operation. | |
| R258 | Open | Normal operation. | |
| R261 | Open | Normal operation. | |
| R262 | Open | Normal operation. | |
| R263 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| R264 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| R301 | Open | Normal operation. | |
| R302 | Open | No Hazard. | AVR1:0 |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|------|---|--------------------|
| R401 | Open | Normal operation. | |
| R402 | Open | Normal operation. | |
| R501 | Open | No Hazard. | AVR1:0 |
| R502 | Open | No Hazard. | AVR1:0 |
| R503 | Open | Normal operation. | |
| R504 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| R505 | Open | Normal operation. | |
| R506 | Open | Normal operation. | |
| R507 | Open | No Hazard. | AVR1:0 |
| R508 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| R509 | Open | No Hazard. | AVR1:0 |
| R510 | Open | No Hazard. | AVR1:0 |
| R511 | Open | No Hazard. | AVR1:0 |
| R512 | Open | Output voltage decreased. No hazard. | AVR1:decreased |
| R513 | Open | Normal operation. | |
| R514 | Open | Normal operation. | |
| R601 | Open | Normal operation. | |
| R602 | Open | Normal operation. | |
| R603 | Open | Normal operation. | |
| R604 | Open | Normal operation. | |
| R605 | Open | Normal operation. | |
| R607 | Open | Normal operation. | |
| R609 | Open | Normal operation. | |
| R610 | Open | Normal operation. | |

F M E A

| Component | Mode | Comment | Output Voltage (V) |
|-----------|------|-------------------|--------------------|
| R611 | Open | Normal operation. | |
| R701 | Open | Normal operation. | |
| R702 | Open | Normal operation. | |
| R703 | Open | Normal operation. | |
| R704 | Open | Normal operation. | |
| R705 | Open | No Hazard. | AVR1:0 |

ABNORMAL TEST RESULT

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|---|--------------------|
| C102 | Short | | No Hazard. | AVR1:0 |
| C211 | Short | | Output voltage decreased. No hazard. | AVR1:decreased |
| C401 | Open | | No Hazard. | AVR1:0 |
| | Short | | Normal operation. | |
| C402 | Open | | Normal operation. | |
| | Short | | Normal operation. | AVR1:0 |
| D201 | Short | | Output voltage decreased. No hazard. | AVR1:decreased |
| D211 | Open | | Normal operation. | |
| | Short | | Output voltage decreased. No hazard. | AVR1:decreased |
| D401 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| D402 | Short | | Normal operation. | |
| D403 | Open | | Normal operation. | |
| | Short | | Normal operation. | |
| IC101 | Short | 1-2 | Normal operation. | |
| | | 2-3 | No Hazard. | AVR1:0 |
| | | 3-4 | No Hazard. | AVR1:0 |
| | | 5-6 | Normal operation. | |
| | | 6-7 | No Hazard. | AVR1:0 |
| | | 7-8 | External fuse opened. No hazard. | AVR1:0 |
| IC201 | Open | 1 | Output voltage decreased. No hazard. | AVR1:decreased |
| | | | | |
| | Short | 1-2 | Output voltage decreased. No hazard. | AVR1:decreased |
| | | 2-3 | Output voltage decreased. No hazard. | AVR1:decreased |
| SS51 | Open | | No Hazard. | AVR1:0 |

ABNORMAL TEST RESULT

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|-------------------------------------|--------------------|
| SS51 | Short | | No Hazard. | AVR1:0 |
| T11 | Open | 3 | Normal operation. | |
| | | 4 | Normal operation. | |
| | | 5 | No Hazard. | AVR1:0 |
| | | 6 | No Hazard. | AVR1:0 |
| | Short | 1-2 | External fuse opened. No hazard. | AVR1:0 |
| | | 3-4 | External fuse opened. No hazard. | AVR1:0 |
| | | 5-6 | External fuse opened. No hazard. | AVR1:0 |
| TR21 | Open | D | Normal operation. | |
| | | S | Normal operation. | |
| | | G | Normal operation. | |
| | Short | D-S | Normal operation. | |
| | | S-G | Normal operation. | |
| | | G-D | Normal operation. | |
| TR301 | Open | D | No Hazard. | AVR1:0 |
| | | S | No Hazard. | AVR1:0 |
| | | G | No Hazard. | AVR1:0 |
| | Short | D-S | External fuse opened. No hazard. | AVR1:0 |
| | | S-G | No Hazard. | AVR1:0 |
| | | G-D | External fuse opened. No hazard. | AVR1:0 |
| TR401 | Open | D | No Hazard. | AVR1:0 |
| | | S | No Hazard. | AVR1:0 |
| | | G | No Hazard. | AVR1:0 |
| | Short | D-S | External fuse opened. No hazard. | AVR1:0 |

ABNORMAL TEST RESULT

| Component | Mode | | Comment | Output Voltage (V) |
|-----------|-------|-----|---|--------------------|
| TR401 | Short | S-G | No Hazard. | AVR1:0 |
| | | G-D | External fuse opened. No hazard. | AVR1:0 |
| ZD121 | Short | | Normal operation. | |
| | Open | | No Hazard. | AVR1:0 |
| R124 | Open | | Normal operation. | |
| R211 | Open | | Output voltage decreased. No hazard. | AVR1:decreased |
| R212 | Open | | Output voltage decreased. No hazard. | AVR1:decreased |