

## ABNORMAL TEST RESULT

## OF MODEL TUHS5

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/ 9 ~ 7/ 9)

( Abnormal Test Result: 8/ 9 ~ 9/ 9)

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	See 8 Page.	AVR1:0
C102	Open	Normal operation.	
	Short	See 8 Page.	AVR1:0
C103	Open	Normal operation.	
	Short	See 8 Page.	AVR1:0
C110	Open	See 8 Page.	
	Short	No Hazard.	AVR1:0
C111	Open	Normal operation.	
	Short	See 8 Page.	
C120	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C121	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C122	Open	See 8 Page.	
	Short	No Hazard.	AVR1:0
C123	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C201	Open	Normal operation.	
	Short	See 8 Page.	AVR1:0
C202	Open	Normal operation.	
	Short	See 8 Page.	AVR1:0
C210	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased

## F M E A

Component	Mode		Comment	Output Voltage (V)
C211	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C212	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C231	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D110	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
D112	Open		No Hazard.	AVR1:0
	Short		See 8 Page.	AVR1:0
D120	Open	only 5, 12, 15	See 8 Page.	
	Short	only 5, 12, 15	Normal operation.	
D121	Open		See 8 Page.	
	Short		No Hazard.	AVR1:0
D122	Open		Normal operation.	
	Short		See 8 Page.	
D201	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
D231	Open		Normal operation.	
	Short		Normal operation.	
IC101	Open	1	See 8 Page.	
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Open	5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	
		8	Normal operation.	
	Short	1-2	See 8 Page.	AVR1:decreased
		2-3	See 8 Page.	AVR1:decreased
		3-4	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0
		6-7	Normal operation.	
		7-8	Normal operation.	
IC201	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	No Hazard.	AVR1:0
		R-A	No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L121	Open		See 8 Page.	
	Short		No Hazard.	AVR1:0
L201	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
PC101	Open	A, K	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
PC101	Open	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		External fuse opened. No Hazard.	AVR1:0
T101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	See 8 Page.	AVR1:0
		4	See 8 Page.	AVR1:0
		5	See 8 Page.	
		6	See 8 Page.	
	Short	1-2	See 8 Page.	AVR1:0
		3-4	See 8 Page.	AVR1:0
		5-6	See 8 Page.	AVR1:0
TR101	Open	D	See 8 Page.	
		S	See 9 Page.	
		G	See 9 Page.	
	Short	D-S	See 9 Page.	
		S-G	See 9 Page.	
		G-D	See 9 Page.	
TR102	Open	D	See 9 Page.	AVR1:0
		S	See 9 Page.	AVR1:0
		G	See 9 Page.	AVR1:0
	Short	D-S	See 9 Page.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR102	Short	S-G	See 9 Page.	AVR1:0
		G-D	See 9 Page.	AVR1:0
ZD121	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
R101	Open		No Hazard.	AVR1:0
R110	Open		Normal operation.	
R120	Open		Normal operation.	
R122	Open	only 5, 12, 15	See 9 Page.	AVR1:*
R123	Open		No Hazard.	AVR1:0
R125	Open		No Hazard.	AVR1:0
R126	Open		Normal operation.	
R127	Open		No Hazard.	AVR1:0
R128	Open		No Hazard.	AVR1:0
R130	Open		See 9 Page.	
R131	Open		See 9 Page.	
R132	Open		See 9 Page.	
R136	Open		Normal operation.	
R210	Open		No Hazard.	AVR1:0
R211	Open	only 15, 24	No Hazard.	AVR1:0
R212	Open		No Hazard.	AVR1:0
R213	Open		No Hazard.	AVR1:0
R214	Open		No Hazard.	AVR1:0
R215	Open		No Hazard.	AVR1:0
R216	Open		No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R217	Open	No Hazard.	AVR1:0
R218	Open	No Hazard.	AVR1:0
R231	Open	Normal operation.	
R232	Open	Normal operation.	
R233	Open	Normal operation.	

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C101	Short		External fuse opened. No Hazard.	AVR1:0
C102	Short		No Hazard.	AVR1:0
C103	Short		No Hazard.	AVR1:0
C110	Open		Normal operation.	
C111	Short		Normal operation.	
C122	Open		Normal operation.	
C201	Short		No Hazard.	AVR1:0
C202	Short		No Hazard.	AVR1:0
D112	Short		No Hazard.	AVR1:0
D120	Open	only 5, 12, 15	No Hazard.	AVR1:0
D121	Open		Normal operation.	
D122	Short		Normal operation.	
IC101	Open	1	Normal operation.	
	Short	1-2	Output voltage decreased. No hazard.	AVR1:decreased
		2-3	Output voltage decreased. No hazard.	AVR1:decreased
L121	Open		Normal operation.	
T101	Open	3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	Normal operation.	
		6	Normal operation.	
	Short	1-2	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0
TR101	Open	D	Normal operation.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR101	Open	S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR102	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
R122	Open	only 5, 12, 15	Normal operation.	
R130	Open		Normal operation.	
R131	Open		Normal operation.	
R132	Open		Normal operation.	