

ABNORMAL TEST RESULT

OF MODEL TUHS25

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 : 2/14 ~ 10/14)

(Abnormal Test Result: 11/14 ~ 14/14)

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 11 Page.	AVR1:0
C102	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C103	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C104	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C105	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C110	Open	See 11 Page.	
	Short	No Hazard.	AVR1:0
C111	Open	Normal operation.	
	Short	See 11 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 11 Page.	
	Short	No Hazard.	AVR1:0
C123	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C124	Open	Normal operation.	
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C141	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C150	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C201	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C202	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C203	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C204	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C205	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C206	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C207	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C208	Open	Normal operation.	
	Short	See 11 Page.	AVR1:0
C210	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C211	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)
C212	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C213	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C220	Open			
	Short		See 11 Page.	AVR1:0
C231	Open	only12, 15, 24	Normal operation.	
	Short	only12, 15, 24	No Hazard.	AVR1:0
D101	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Normal operation.	
D110	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
D112	Open		No Hazard.	AVR1:0
	Short		See 11 Page.	AVR1:0
D120	Open		See 11 Page.	
	Short		Normal operation.	
D121	Open		See 11 Page.	
	Short		No Hazard.	AVR1:0
D122	Open		Normal operation.	
	Short		See 11 Page.	
D123	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D141	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
D150	Open		Normal operation.	
	Short		See 11 Page.	
D210	Open		Normal operation.	
	Short		Normal operation.	
D220	Open		See 11 Page.	
	Short		No Hazard.	AVR1:0
D221	Open		Normal operation.	
	Short		Normal operation.	
IC101	Open	1	See 12 Page.	
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		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 12 Page.	AVR1:decreased
		2-3	See 12 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

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	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
IC202	Open	1	See 12 Page.	
		2	See 12 Page.	
		3	See 12 Page.	
		4	See 12 Page.	
		5	See 12 Page.	
		6	See 12 Page.	
		7	See 12 Page.	
		8	See 12 Page.	
	Short	1-2	No Hazard.	AVR1:0
		2-3	Normal operation.	
		3-4	Normal operation.	
		4-5	See 12 Page.	
		5-6	See 12 Page.	
		6-7	No Hazard.	AVR1:0
		7-8	See 12 Page.	
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L121	Open		See 12 Page.	
	Short		No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
L201	Open		No Hazard.	AVR1:0
	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	No Hazard.	AVR1:0
SS101	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
T101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	See 12 Page.	AVR1:0
		4	See 12 Page.	AVR1:0
		5	See 12 Page.	
		6	See 12 Page.	
		7	See 12 Page.	
		8	See 12 Page.	
	Short	1-2	See 12 Page.	AVR1:0
		3-4	See 12 Page.	AVR1:0
		5-6	See 12 Page.	AVR1:0
		7-8	See 13 Page.	AVR1:0
TR101	Open	D	See 13 Page.	
		S	See 13 Page.	
		G	See 13 Page.	
	Short	D-S	See 13 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR101	Short	S-G	See 13 Page.	
		G-D	See 13 Page.	
TR102	Open	D	See 13 Page.	AVR1:0
		S	See 13 Page.	AVR1:0
		G	See 13 Page.	AVR1:0
	Short	D-S	See 13 Page.	AVR1:0
		S-G	See 13 Page.	AVR1:0
		G-D	See 13 Page.	AVR1:0
TR141	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
TR201	Open	D	See 13 Page.	AVR1:0
		S	See 13 Page.	AVR1:0
		G	See 13 Page.	
	Short	D-S	See 13 Page.	AVR1:0
		S-G	See 13 Page.	
		G-D	See 13 Page.	AVR1:0
ZD121	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
R101	Open		Output voltage decreased. No hazard.	AVR1:decreased
R110	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R120	Open		Normal operation.	
R122	Open		See 13 Page.	
R123	Open		No Hazard.	AVR1:0
R125	Open		No Hazard.	AVR1:0
R127	Open		No Hazard.	AVR1:0
R128	Open		No Hazard.	AVR1:0
R130	Open		See 13 Page.	
R131	Open		See 13 Page.	
R132	Open		See 13 Page.	
R136	Open		Normal operation.	
R140	Open		Normal operation.	
R141	Open		Normal operation.	
R142	Open		Normal operation.	
R143	Open		No Hazard.	AVR1:0
R144	Open		No Hazard.	AVR1:0
R145	Open		Normal operation.	
R150	Open		Normal operation.	
R210	Open		No Hazard.	AVR1:0
R211	Open	only 15, 24	No Hazard.	AVR1:0
R212	Open		Output voltage decreased. No hazard.	AVR1:decreased
R213	Open		Output voltage decreased. No hazard.	AVR1:decreased
R214	Open		No Hazard.	AVR1:0
R215	Open		No Hazard.	AVR1:0
R216	Open		Output voltage decreased. No hazard.	AVR1:decreased

F M E A

Component	Mode		Comment	Output Voltage (V)
R217	Open		Output voltage decreased. No hazard.	AVR1:decreased
R218	Open		Output voltage decreased. No hazard.	AVR1:decreased
R219	Open		Normal operation.	
R220	Open		See 13 Page.	
R221	Open		See 14 Page.	
R222	Open		See 14 Page.	
R223	Open		See 14 Page.	
R224	Open		Normal operation.	
R225	Open	only 5, 12, 15	Normal operation.	
R226	Open	only 5	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
C104	Short	No Hazard.	AVR1:0
C105	Short	No Hazard.	AVR1:0
C110	Open	Normal operation.	
C111	Short	Normal operation.	
C122	Open	Normal operation.	
C150	Short	No Hazard.	AVR1:0
C201	Short	No Hazard.	AVR1:0
C202	Short	No Hazard.	AVR1:0
C203	Short	No Hazard.	AVR1:0
C204	Short	No Hazard.	AVR1:0
C205	Short	No Hazard.	AVR1:0
C206	Short	No Hazard.	AVR1:0
C207	Short	No Hazard.	AVR1:0
C208	Short	No Hazard.	AVR1:0
C220	Short	No Hazard.	AVR1:0
D112	Short	No Hazard.	AVR1:0
D120	Open	Normal operation.	
D121	Open	Normal operation.	
D122	Short	Normal operation.	
D150	Short	Normal operation.	
D220	Open		

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC101	Open	1	Normal operation.	
	Short	1-2	Output voltage decreased. No hazard.	AVR1:decreased
		2-3	Output voltage decreased. No hazard.	AVR1:decreased
IC202	Open	1	Output voltage decreased. No hazard.	AVR1:decreased
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	4-5	No Hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0
		7-8	Normal operation.	
L121	Open		Normal operation.	
T101	Open	3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	Normal operation.	
		6	Normal operation.	
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
T101	Short	7-8	No Hazard.	AVR1:0
TR101	Open	D	Normal operation.	
		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
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	Normal operation.	
		G-D	No Hazard.	AVR1:0
R122	Open		Normal operation.	
R130	Open		Normal operation.	
R131	Open		Normal operation.	
R132	Open		Normal operation.	
R220	Open		No Hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
R221	Open	No Hazard.	AVR1:0
R222	Open	No Hazard.	AVR1:0
R223	Open	No Hazard.	AVR1:0