



## ABNORMAL TEST RESULT

OF MODEL CHS3002415

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 : 2/30 ~ 28/30)

( Abnormal Test Result: 29/30 ~ 30/30)

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)
C100	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C101	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C102	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C103	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C104	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C105	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C106	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C109	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C201	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
C202	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
C203	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C204	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
C205	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C311	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C312	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C313	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C314	Open	No Hazard.	AVR1:0[V]
	Short	Normal operation.	AVR1:**
C315	Open	No Hazard.	AVR1:0[V]
	Short	Normal operation.	AVR1:**
C316	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C411	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C421	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C431	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]
C432	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
C434	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
C435	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C436	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C451	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C452	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C501	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C502	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C503	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C504	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C505	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C531	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C532	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C541	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
C542	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C551	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C552	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
C553	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C554	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C601	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C602	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
C603	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C611	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
C612	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C613	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C621	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
C622	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C701	Open	No Hazard.	AVR1:0[V]
	Short	Normal operation.	AVR1:*
C702	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C703	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C706	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C710	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C711	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C720	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C721	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C722	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C723	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C724	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C733	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C801	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C802	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C803	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
C804	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C805	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased or increased.	AVR1:decreased or increased
C806	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	No Hazard.	AVR1:0[V]
C807	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	No Hazard.	AVR1:0[V]
C811	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
D311	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
D451	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D532	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
D542	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0[V]
D551	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0[V]
D552	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0[V]
D553	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0[V]
D601	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
D611	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
D621	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	AVR1:*
D701	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D742	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D801	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	AVR1:*
IC201	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]



F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		5-6	No Hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]
		7-8	No Hazard.	AVR1:0[V]
IC202	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		5-6	No Hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]
		7-8	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
IC203	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		5-6	No Hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]
		7-8	No Hazard.	AVR1:0[V]
IC311	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0[V]
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0[V]
		4-5	Normal operation.	AVR1:*
IC312	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC312	Open	3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC411	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC431	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
IC431	Short	3-4	No Hazard.	AVR1:0[V]
		5-6	No Hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]
		7-8	No Hazard.	AVR1:0[V]
IC551	Open	1	Normal operation.	AVR1:*
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	Normal operation.	AVR1:*
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		5-6	No Hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]
		7-8	No Hazard.	AVR1:0[V]
IC601	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		1-3	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
IC621	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC701	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	No Hazard.	AVR1:0[V]
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0[V]
		4-5	Normal operation.	AVR1:*
IC710	Open	1	No Hazard.	AVR1:0[V]
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	No Hazard.	AVR1:0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC710	Open	9	No Hazard.	AVR1:0[V]
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	No Hazard.	AVR1:0[V]
		15	No Hazard.	AVR1:0[V]
		16	Normal operation.	AVR1:*
		17	No Hazard.	AVR1:0[V]
		18	Normal operation.	AVR1:*
		19	Normal operation.	AVR1:*
		20	Normal operation.	AVR1:*
		21	Normal operation.	AVR1:*
		22	Normal operation.	AVR1:*
		23	No Hazard.	AVR1:0[V]
		24	Normal operation.	AVR1:*
		25	Normal operation.	AVR1:*
		26	Normal operation.	AVR1:*
		27	No Hazard.	AVR1:0[V]
		28	No Hazard.	AVR1:0[V]
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Output voltage decreased or increased.	AVR1:decreased or increased
		4-5	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
IC710	Short	5-6	Normal operation.	AVR1:**
		6-7	No Hazard.	AVR1:0[V]
		8-9	No Hazard.	AVR1:0[V]
		9-10	Normal operation.	AVR1:**
		10-11	Normal operation.	AVR1:**
		11-12	Normal operation.	AVR1:**
		12-13	Normal operation.	AVR1:**
		13-14	Normal operation.	AVR1:**
		15-16	No Hazard.	AVR1:0[V]
		16-17	No Hazard.	AVR1:0[V]
		17-18	Normal operation.	AVR1:**
		18-19	Normal operation.	AVR1:**
		19-20	Normal operation.	AVR1:**
		20-21	No Hazard.	AVR1:0[V]
		22-23	Normal operation.	AVR1:**
		23-24	Normal operation.	AVR1:**
		24-25	Normal operation.	AVR1:**
		25-26	Normal operation.	AVR1:**
		26-27	Normal operation.	AVR1:**
		27-28	Normal operation.	AVR1:**
IC721	Open	1	Normal operation.	AVR1:**
		2	Normal operation.	AVR1:**
		3	No Hazard.	AVR1:0[V]
		4	Normal operation.	AVR1:**

F M E A

Component	Mode		Comment	Output Voltage (V)
IC721	Open	5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC802	Open	1	No Hazard.	AVR1:0[V]
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0[V]
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0[V]
		4-5	Normal operation.	AVR1:*
L101	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	AVR1:*
PTH421	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	AVR1:*
SS311	Open	1-3	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
	Short	1-3	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
SS531	Open	1-3	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
	Short	1-3	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
SS551	Open	1-3	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
	Short	1-3	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
SS701	Open	1-3	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
	Short	1-3	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
T431	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
TH711	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0[V]
TR101	Open	D	See 29 Page.	
		S	See 29 Page.	
		G	See 29 Page.	
	Short	D-S	See 29 Page.	
		S-G	See 29 Page.	
		G-D	See 29 Page.	
TR102	Open	D	See 29 Page.	
		S	See 29 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR102	Open	G	See 29 Page.	
	Short	D-S	See 29 Page.	
		S-G	See 29 Page.	
		G-D	See 29 Page.	
TR103	Open	D	See 29 Page.	
		S	See 29 Page.	
		G	See 29 Page.	
	Short	D-S	See 29 Page.	
		S-G	See 29 Page.	
		G-D	See 29 Page.	
TR104	Open	D	See 29 Page.	
		S	See 30 Page.	
		G	See 30 Page.	
	Short	D-S	See 30 Page.	
		S-G	See 30 Page.	
		G-D	See 30 Page.	
TR311 (1)	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	Normal operation.	AVR1:*
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR311 (2)	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
TR311 (2)	Open	B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0[V]
TR312	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	AVR1:*
		G-D	No Hazard.	AVR1:0[V]
TR411	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR421	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0[V]
TR431 (1)	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR431 (1)	Open	B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0[V]
TR431 (2)	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0[V]
TR432	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	Normal operation.	AVR1:*
		E-B	No Hazard.	AVR1:0[V]
		B-C	Normal operation.	AVR1:*
TR511	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR521	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR521	Open	G	No Hazard.	AVR1:0[V]
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR531	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	AVR1:*
		G-D	No Hazard.	AVR1:0[V]
TR541	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	AVR1:*
		G-D	No Hazard.	AVR1:0[V]
TR551	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR552	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR552	Open	G	No Hazard.	AVR1:0[V]
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR553	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR554	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	AVR1:*
		G-D	No Hazard.	AVR1:0[V]
TR611 (1)	Open	C	No Hazard.	AVR1:0[V]
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR611 (2)	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR611 (2)	Open	B	No Hazard.	AVR1:0[V]
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0[V]
TR612	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR621	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR802	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
ZD411	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD431	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0[V]
ZD451	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
ZD741	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
R101	Open	Normal operation.	AVR1:*
R102	Open	Normal operation.	AVR1:*
R103	Open	Normal operation.	AVR1:*
R104	Open	Normal operation.	AVR1:*
R111	Open	No Hazard.	AVR1:0[V]
R112	Open	No Hazard.	AVR1:0[V]
R113	Open	No Hazard.	AVR1:0[V]
R114	Open	No Hazard.	AVR1:0[V]
R121	Open	No Hazard.	AVR1:0[V]
R201	Open	No Hazard.	AVR1:0[V]
R202	Open	No Hazard.	AVR1:0[V]
R310	Open	Normal operation.	AVR1:*
R311	Open	Normal operation.	AVR1:*
R312	Open	Normal operation.	AVR1:*
R313	Open	No Hazard.	AVR1:0[V]
R314	Open	Normal operation.	AVR1:*
R318	Open	Normal operation.	AVR1:*
R319	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R411	Open	No Hazard.	AVR1:0[V]
R412	Open	Normal operation.	AVR1:*
R413	Open	No Hazard.	AVR1:0[V]
R421	Open	Normal operation.	AVR1:*
R430	Open	No Hazard.	AVR1:0[V]
R431	Open	No Hazard.	AVR1:0[V]
R432	Open	No Hazard.	AVR1:0[V]
R433	Open	Normal operation.	AVR1:*
R434	Open	No Hazard.	AVR1:0[V]
R435	Open	No Hazard.	AVR1:0[V]
R436	Open	No Hazard.	AVR1:0[V]
R437	Open	No Hazard.	AVR1:0[V]
R438	Open	No Hazard.	AVR1:0[V]
R439	Open	No Hazard.	AVR1:0[V]
R440	Open	No Hazard.	AVR1:0[V]
R441	Open	No Hazard.	AVR1:0[V]
R442	Open	Normal operation.	AVR1:*
R443	Open	No Hazard.	AVR1:0[V]
R451	Open	No Hazard.	AVR1:0[V]
R512	Open	Normal operation.	AVR1:*
R517	Open	No Hazard.	AVR1:0[V]
R522	Open	Normal operation.	AVR1:*
R527	Open	No Hazard.	AVR1:0[V]
R531	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R532	Open	Normal operation.	AVR1:*
R541	Open	Normal operation.	AVR1:*
R542	Open	Normal operation.	AVR1:*
R551	Open	No Hazard.	AVR1:0[V]
R552	Open	No Hazard.	AVR1:0[V]
R553	Open	No Hazard.	AVR1:0[V]
R555	Open	Normal operation.	AVR1:*
R601	Open	No Hazard.	AVR1:0[V]
R602	Open	Normal operation.	AVR1:*
R603	Open	Normal operation.	AVR1:*
R610	Open	No Hazard.	AVR1:0[V]
R611	Open	No Hazard.	AVR1:0[V]
R612	Open	No Hazard.	AVR1:0[V]
R613	Open	Normal operation.	AVR1:*
R614	Open	Normal operation.	AVR1:*
R615	Open	No Hazard.	AVR1:0[V]
R616	Open	No Hazard.	AVR1:0[V]
R701	Open	Normal operation.	AVR1:*
R702	Open	Normal operation.	AVR1:*
R703	Open	No Hazard.	AVR1:0[V]
R704	Open	No Hazard.	AVR1:0[V]
R705	Open	Normal operation.	AVR1:*
R706	Open	Normal operation.	AVR1:*
R708	Open	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
R709	Open	Normal operation.	AVR1:*
R711	Open	No Hazard.	AVR1:0[V]
R721	Open	No Hazard.	AVR1:0[V]
R722	Open	Normal operation.	AVR1:*
R723	Open	No Hazard.	AVR1:0[V]
R724	Open	Normal operation.	AVR1:*
R726	Open	No Hazard.	AVR1:0[V]
R727	Open	No Hazard.	AVR1:0[V]
R728	Open	Normal operation.	AVR1:*
R729	Open	Normal operation.	AVR1:*
R731	Open	No Hazard.	AVR1:0[V]
R732	Open	No Hazard.	AVR1:0[V]
R742	Open	Normal operation.	AVR1:*
R743	Open	Normal operation.	AVR1:*
R801	Open	No Hazard.	AVR1:0[V]
R802	Open	No Hazard.	AVR1:0[V]
R803	Open	No Hazard.	AVR1:0[V]
R804	Open	Output voltage decreased or increased.	AVR1:decreased or increased
R805	Open	No Hazard.	AVR1:0[V]
R806	Open	No Hazard.	AVR1:0[V]
R807	Open	No Hazard.	AVR1:0[V]
R808	Open	Output voltage decreased or increased.	AVR1:decreased or increased
R809	Open	Output voltage decreased or increased.	AVR1:decreased or increased
R810	Open	Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R811	Open	No Hazard.	AVR1:0[V]
R812	Open	No Hazard.	AVR1:0[V]
R819	Open	Normal operation.	AVR1:*

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C101	Short		External Fuse opened, No hazard.	AVR1:0[V]
C102	Short		External Fuse opened, No hazard.	AVR1:0[V]
C103	Short		External Fuse opened, No hazard.	AVR1:0[V]
C104	Short		External Fuse opened, No hazard.	AVR1:0[V]
C109	Short		External Fuse opened, No hazard.	AVR1:0[V]
TR101	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR102	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR103	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR104	Open	D	No hazard.	AVR1:0[V]



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR104	Open	S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]