

## ABNORMAL TEST RESULT

OF MODEL CHS5004812

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 : 2/31 ~ 28/31)

( Abnormal Test Result: 29/31 ~ 31/31)

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	See 29 Page.	
C106	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C109	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	
C110	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C111	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C201	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C202	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C203	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C204	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C311	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C312	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C313	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C314	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C315	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C412	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C421	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C431	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C432	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C434	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C435	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C436	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C451	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C452	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C510	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C511	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C512	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C513	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C514	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C515	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C517	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C541	Open	Normal operation.	AVR1:*
	Short	See 29 Page.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C542	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C550	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C551	Open	No Hazard.	AVR1:0 [V]
	Short	No Hazard.	AVR1:*
C552	Open	No Hazard.	AVR1:0 [V]
	Short	No Hazard.	AVR1:*
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:*
C603	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C604	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C611	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C612	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C613	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C614	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C621	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C701	Open	No Hazard.	AVR1:*
	Short	Normal operation.	AVR1:*
C702	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C703	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C705	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C706	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C707	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C710	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C711	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C720	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C721	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C722	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C723	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C724	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C733	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C801	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C802	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C803	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C804	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C805	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
C806	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C807	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
C812	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
D101	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:*
D311	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
D312	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
D422	Open	No Hazard.	AVR1:0 [V]
	Short	Normal operation.	AVR1:*
D432	Open	No Hazard.	AVR1:0 [V]
	Short	Normal operation.	AVR1:*
D551	Open	No Hazard.	AVR1:0 [V]
	Short	No Hazard.	AVR1:0 [V]
D552	Open	No Hazard.	AVR1:0 [V]
	Short	No Hazard.	AVR1:0 [V]
D553	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
D601	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*
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	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
D703	Open		No Hazard.	AVR1:*
	Short		No Hazard.	AVR1:*
D801	Open		No Hazard.	AVR1:0 [V]
	Short		No Hazard.	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]
		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	See 29 Page.	
		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]

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC202	Open	7	No Hazard.	AVR1:0 [V]
		8	No Hazard.	AVR1:0 [V]
	Short	1-2	See 29 Page.	
		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]
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:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC311	Open	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:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	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	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:*
		4-5	No Hazard.	AVR1:0 [V]
IC431	Open	1	No Hazard.	AVR1:0 [V]
		2	No Hazard.	AVR1:0 [V]

F M E A

Component	Mode		Comment	Output Voltage (V)
IC431	Open	3	No Hazard.	AVR1:0 [V]
		4	No Hazard.	AVR1:0 [V]
		5	See 29 Page.	
		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	See 29 Page.	
		3-4	See 29 Page.	
		5-6	No Hazard.	AVR1:0 [V]
		6-7	See 29 Page.	
		7-8	No Hazard.	AVR1:0 [V]
IC501	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	See 29 Page.	
		2-3	No Hazard.	AVR1:0 [V]
		3-4	No Hazard.	AVR1:0 [V]
		5-6	No Hazard.	AVR1:0 [V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC501	Short	6-7	No Hazard.	AVR1:0 [V]
		7-8	No Hazard.	AVR1:0 [V]
IC502	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	See 29 Page.	
		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	2-3	See 29 Page.	
IC611	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)
IC611	Open	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	No Hazard.	AVR1:*
		7	Normal operation.	AVR1:*
		8	No Hazard.	AVR1:0 [V]
		9	No Hazard.	AVR1:0 [V]
		10	No Hazard.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC710	Open	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	No Hazard.	AVR1:*
		20	No Hazard.	AVR1:*
		21	Normal operation.	AVR1:*
		22	No Hazard.	AVR1:*
		23	No Hazard.	AVR1:0 [V]
		24	Normal operation.	AVR1:*
		25	Normal operation.	AVR1:*
		26	No Hazard.	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	No Hazard.	AVR1:0 [V]
		4-5	No Hazard.	AVR1:0 [V]
		5-6	No Hazard.	AVR1:*
		6-7	No Hazard.	AVR1:0 [V]
		8-9	No Hazard.	AVR1:0 [V]
		9-10	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC710	Short	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	No Hazard.	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	No Hazard.	AVR1:*
		2	No Hazard.	AVR1:*
		3	No Hazard.	AVR1:0 [V]
		4	No Hazard.	AVR1:*
		5	No Hazard.	AVR1:*
	Short	1-2	No Hazard.	AVR1:*
		2-3	No Hazard.	AVR1:0 [V]
		4-5	No Hazard.	AVR1:0 [V]



## F M E A

Component	Mode		Comment	Output Voltage (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:*
PTH421	Open		Normal operation.	AVR1:*
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 30 Page.	
		G	See 30 Page.	
	Short	D-S	See 30 Page.	
		S-G	See 30 Page.	
		G-D	See 30 Page.	
TR103	Open	D	See 30 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR103	Open	S	See 30 Page.	
		G	See 30 Page.	
	Short	D-S	See 30 Page.	
		S-G	See 30 Page.	
		G-D	See 30 Page.	
TR104	Open	D	See 30 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	No Hazard.	AVR1:*
		E-B	No Hazard.	AVR1:0 [V]
		B-C	No Hazard.	AVR1:0 [V]
TR311 (2)	Open	C	No Hazard.	AVR1:*
		E	No Hazard.	AVR1:*
		B	No Hazard.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0 [V]
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0 [V]
TR411	Open	D	No Hazard.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
TR411	Open	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:*
TR412	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]
TR421	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:*
		E-B	No Hazard.	AVR1:*
		B-C	No Hazard.	AVR1:*
TR440	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:*
TR451 (1)	Open	C	No Hazard.	AVR1:0 [V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR451 (1)	Open	E	No Hazard.	AVR1:0 [V]
		B	No Hazard.	AVR1:0 [V]
	Short	C-E	See 30 Page.	
		E-B	Normal operation.	AVR1:*
		B-C	See 30 Page.	
TR451 (2)	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0 [V]
		E-B	No Hazard.	AVR1:*
		B-C	No Hazard.	AVR1:0 [V]
TR501	Open	D	See 30 Page.	
		S	See 30 Page.	
		G	No Hazard.	AVR1:0 [V]
	Short	D-S	See 30 Page.	
		S-G	No Hazard.	AVR1:*
		G-D	See 30 Page.	
TR502	Open	D	See 30 Page.	
		S	See 31 Page.	
		G	No Hazard.	AVR1:0 [V]
	Short	D-S	See 31 Page.	
		S-G	No Hazard.	AVR1:*
		G-D	See 31 Page.	
TR503	Open	D	See 31 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR503	Open	S	See 31 Page.	
		G	No Hazard.	AVR1:0 [V]
	Short	D-S	See 31 Page.	
		S-G	No Hazard.	AVR1:*
		G-D	See 31 Page.	
TR504	Open	D	See 31 Page.	
		S	See 31 Page.	
		G	No Hazard.	AVR1:0 [V]
	Short	D-S	See 31 Page.	
		S-G	No Hazard.	AVR1:*
		G-D	See 31 Page.	
TR541	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	See 31 Page.	
		S-G	Normal operation.	AVR1:*
		G-D	See 31 Page.	
TR551	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]
TR552	Open	D	No Hazard.	AVR1:0 [V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR552	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]
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]
TR611 (1)	Open	C	No Hazard.	AVR1:0 [V]
		E	No Hazard.	AVR1:*
		B	No Hazard.	AVR1:*
	Short	C-E	No Hazard.	AVR1:*
		E-B	No Hazard.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR611 (2)	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:*
		E-B	No Hazard.	AVR1:*
		B-C	No Hazard.	AVR1:0 [V]
TR612	Open	C	No Hazard.	AVR1:0 [V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR612	Open	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]
TR720	Open	C	No Hazard.	AVR1:*
		E	No Hazard.	AVR1:*
		B	No Hazard.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0 [V]
		E-B	No Hazard.	AVR1:*
		B-C	No Hazard.	AVR1:0 [V]
TR802	Open	D	No Hazard.	AVR1:*
		S	No Hazard.	AVR1:*
		G	No Hazard.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0 [V]
		S-G	No Hazard.	AVR1:*
		G-D	No Hazard.	AVR1:*
ZD411	Open		Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD411	Short	No Hazard.	AVR1:*
ZD440	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
ZD451	Open	No Hazard.	AVR1:0 [V]
	Short	No Hazard.	AVR1:0 [V]
ZD720	Open	No Hazard.	AVR1:*
	Short	No Hazard.	AVR1:0 [V]
R101	Open	Normal operation.	AVR1:*
R102	Open	Normal operation.	AVR1:*
R103	Open	Normal operation.	AVR1:*
R104	Open	Normal operation.	AVR1:*
R111	Open	See 31 Page.	
R112	Open	See 31 Page.	
R113	Open	See 31 Page.	
R114	Open	See 31 Page.	
R120	Open	See 31 Page.	
R201	Open	See 31 Page.	
R202	Open	See 31 Page.	
R310	Open	No Hazard.	AVR1:*
R311	Open	No Hazard.	AVR1:*
R312	Open	No Hazard.	AVR1:*
R313	Open	No Hazard.	AVR1:0 [V]
R316	Open	Normal operation.	AVR1:*
R318	Open	No Hazard.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R319	Open	No Hazard.	AVR1:*
R411	Open	No Hazard.	AVR1:0 [V]
R412	Open	No Hazard.	AVR1:*
R414	Open	No Hazard.	AVR1:0 [V]
R415	Open	Normal operation.	AVR1:*
R421	Open	No Hazard.	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:*
R451	Open	No Hazard.	AVR1:0 [V]
R501	Open	Normal operation.	AVR1:*
R502	Open	Normal operation.	AVR1:*
R503	Open	Normal operation.	AVR1:*
R504	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R511	Open	No Hazard.	AVR1:0 [V]
R512	Open	No Hazard.	AVR1:0 [V]
R513	Open	No Hazard.	AVR1:0 [V]
R514	Open	No Hazard.	AVR1:0 [V]
R519	Open	Normal operation.	AVR1:*
R529	Open	Normal operation.	AVR1:*
R542	Open	Normal operation.	AVR1:*
R543	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]
R601	Open	No Hazard.	AVR1:0 [V]
R610	Open	No Hazard.	AVR1:0 [V]
R611	Open	No Hazard.	AVR1:0 [V]
R612	Open	No Hazard.	AVR1:0 [V]
R613	Open	No Hazard.	AVR1:*
R614	Open	No Hazard.	AVR1:*
R615	Open	No Hazard.	AVR1:0 [V]
R616	Open	No Hazard.	AVR1:0 [V]
R701	Open	No Hazard.	AVR1:*
R702	Open	No Hazard.	AVR1:*
R703	Open	No Hazard.	AVR1:0 [V]
R704	Open	No Hazard.	AVR1:0 [V]
R705	Open	No Hazard.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R707	Open	No Hazard.	AVR1:0 [V]
R708	Open	No Hazard.	AVR1:*
R709	Open	No Hazard.	AVR1:*
R711	Open	No Hazard.	AVR1:0 [V]
R720	Open	No Hazard.	AVR1:*
R721	Open	No Hazard.	AVR1:0 [V]
R722	Open	No Hazard.	AVR1:*
R723	Open	No Hazard.	AVR1:0 [V]
R724	Open	No Hazard.	AVR1:*
R725	Open	No Hazard.	AVR1:*
R726	Open	No Hazard.	AVR1:0 [V]
R727	Open	No Hazard.	AVR1:0 [V]
R728	Open	No Hazard.	AVR1:*
R729	Open	No Hazard.	AVR1:*
R730	Open	No Hazard.	AVR1:*
R731	Open	No Hazard.	AVR1:*
R732	Open	No Hazard.	AVR1:0 [V]
R801	Open	No Hazard.	AVR1:0 [V]
R802	Open	No Hazard.	AVR1:0 [V]
R803	Open	No Hazard.	AVR1:0 [V]
R804	Open	No Hazard.	AVR1:0 [V]
R805	Open	No Hazard.	AVR1:0 [V]
R806	Open	No Hazard.	AVR1:0 [V]
R807	Open	No Hazard.	AVR1:0 [V]

F M E A

Component	Mode	Comment	Output Voltage (V)
R808	Open	No Hazard.	AVR1:0 [V]
R809	Open	No Hazard.	AVR1:0 [V]
R815	Open	No Hazard.	AVR1:0 [V]
R816	Open	No Hazard.	AVR1:0 [V]
R818	Open	No Hazard.	AVR1:0 [V]
R819	Open	No Hazard.	AVR1:*
R824	Open	No Hazard.	AVR1:*
R825	Open	No Hazard.	AVR1:0 [V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C101	Short		No Hazard.	AVR1:0 [V]
C102	Short		No Hazard.	AVR1:0 [V]
C103	Short		No Hazard.	AVR1:0 [V]
C104	Short		No Hazard.	AVR1:0 [V]
C105	Short		No Hazard.	AVR1:0 [V]
C106	Short		No Hazard.	AVR1:0 [V]
C109	Short		No Hazard.	AVR1:0 [V]
C541	Short		No Hazard.	AVR1:0 [V]
IC201	Short	1-2	No Hazard.	AVR1:0 [V]
IC202	Short	1-2	No Hazard.	AVR1:0 [V]
IC431	Open	5	No Hazard.	AVR1:0 [V]
	Short	2-3	No Hazard.	AVR1:0 [V]
		3-4	No Hazard.	AVR1:0 [V]
		6-7	No Hazard.	AVR1:0 [V]
IC501	Short	1-2	No Hazard.	AVR1:0 [V]
IC502	Short	1-2	No Hazard.	AVR1:0 [V]
IC601	Short	2-3	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]

# ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR102	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]
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]
		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]
TR451 (1)	Short	C-E	No Hazard.	AVR1:0 [V]
		B-C	No Hazard.	AVR1:0 [V]
TR501	Open	D	No Hazard.	AVR1:0 [V]
		S	No Hazard.	AVR1:0 [V]
	Short	D-S	No Hazard.	AVR1:0 [V]
		G-D	No Hazard.	AVR1:0 [V]
TR502	Open	D	No Hazard.	AVR1:0 [V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR502	Open	S	No Hazard.	AVR1:0 [V]
	Short	D-S	No Hazard.	AVR1:0 [V]
		G-D	No Hazard.	AVR1:0 [V]
TR503	Open	D	No Hazard.	AVR1:0 [V]
		S	No Hazard.	AVR1:0 [V]
	Short	D-S	No Hazard.	AVR1:0 [V]
		G-D	No Hazard.	AVR1:0 [V]
TR504	Open	D	No Hazard.	AVR1:0 [V]
		S	No Hazard.	AVR1:0 [V]
	Short	D-S	No Hazard.	AVR1:0 [V]
		G-D	No Hazard.	AVR1:0 [V]
TR541	Short	D-S	No Hazard.	AVR1:0 [V]
		G-D	No Hazard.	AVR1:0 [V]
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]
R120	Open		No Hazard.	AVR1:0 [V]
R201	Open		No Hazard.	AVR1:0 [V]
R202	Open		No Hazard.	AVR1:0 [V]