



ABNORMAL TEST RESULT

OF MODEL CHS60483R3

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 : 2/18 ~ 17/18)
 (Abnormal Test Result: 18/18 ~ 18/18)

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)
C11	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	See 18 Page.	
C12	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	See 18 Page.	
C21	Open	Normal operation.	
	Short	Normal operation.	
C22	Open	Normal operation.	
	Short	Normal operation.	
C51	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C61	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C71	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C72	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C73	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C81	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	No Hazard.	AVR1:0
C82	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C91	Open	Normal operation.	
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C92	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C93	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C94	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C100	Open	Normal operation.	
	Short	Normal operation.	
C111	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C112	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C113	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C131	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C141	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C151	Open	Normal operation.	
	Short	Normal operation.	
C201	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C211	Open	Normal operation.	
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C221	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C222	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C301	Open	Normal operation.	
	Short	Normal operation.	
C302	Open	Normal operation.	
	Short	Normal operation.	
C303	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C304	Open	Normal operation.	
	Short	Normal operation.	
C401	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C411	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C412	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C421	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	No Hazard.	AVR1:0
C422	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	No Hazard.	AVR1:0
C451	Open	Normal operation.	
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C721	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C722	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	Output voltage decreased or increased.	AVR1:decreased or increased
C723	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C724	Open	Normal operation.	
	Short	Output voltage decreased or increased.	AVR1:decreased or increased
C731	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C732	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C733	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C801	Open	Normal operation.	
	Short	Normal operation.	
C802	Open	Normal operation.	
	Short	Normal operation.	
C811	Open	Output voltage decreased or increased.	AVR1:decreased or increased
	Short	No Hazard.	AVR1:0
CN1	Open	No Hazard.	AVR1:0
CN2	Open	No Hazard.	AVR1:0
CN3	Open	No Hazard.	AVR1:0
CN4	Open	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
CN5	Open	No Hazard.	AVR1:0
CN6	Open	See 18 Page.	
CN7	Open	No Hazard.	AVR1:0
CN8	Open	No Hazard.	AVR1:0
CN9	Open	Normal operation.	
CN10	Open	Normal operation.	
CN11	Open	Normal operation.	
CN51	Open	No Hazard.	AVR1:0
CN52	Open	No Hazard.	AVR1:0
CN53	Open	No Hazard.	AVR1:0
D11	Open	Normal operation.	
	Short	Normal operation.	
D31	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D32	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D51	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D71	Open	No Hazard.	AVR1:0
	Short	See 18 Page.	
D81	Open	No Hazard.	AVR1:0
	Short	See 18 Page.	
D111	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
D121	Open		Normal operation.	
	Short		Normal operation.	
D301	Open		Normal operation.	
	Short		Normal operation.	
D401	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
IC111	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	Normal operation.	
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0
		6-7	No Hazard.	AVR1:0
		7-8	No Hazard.	AVR1:0
IC221	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
IC401	Open	1	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Open	2	Normal operation.	
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	
		8	No Hazard.	AVR1:0
		9	Normal operation.	
		10	No Hazard.	AVR1:0
		11	Normal operation.	
		12	No Hazard.	AVR1:0
		13	No Hazard.	AVR1:0
		14	No Hazard.	AVR1:0
		15	No Hazard.	AVR1:0
		16	Normal operation.	
		17	No Hazard.	AVR1:0
		18	No Hazard.	AVR1:0
		19	No Hazard.	AVR1:0
		20	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		3-4	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
		6-7	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Short	7-8	Normal operation.	
		8-9	Normal operation.	
		9-10	No Hazard.	AVR1:0
		11-12	Normal operation.	
		12-13	No Hazard.	AVR1:0
		13-14	See 18 Page.	
		14-15	Normal operation.	
		15-16	Normal operation.	
		17-18	No Hazard.	AVR1:0
		18-19	No Hazard.	AVR1:0
		19-20	See 18 Page.	
IC721	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	See 18 Page.	
		4	See 18 Page.	
		5	No Hazard.	AVR1:0
IC731	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	No Hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
L11	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L91	Open		No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
L91	Short		No Hazard.	AVR1:0
L201	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
PC411	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
SS71	Open	1	See 18 Page.	
		2	See 18 Page.	
		3	See 18 Page.	
	Short	1-2	No Hazard.	AVR1:0
		1-3	No Hazard.	AVR1:0
		2-3	Normal operation.	
TH41	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
TR21	Open	D	See 18 Page.	
		S	See 18 Page.	
		G	See 18 Page.	
	Short	D-S	See 18 Page.	
		S-G	See 18 Page.	
		G-D	See 18 Page.	
TR51	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR51	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR52_1	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
TR52_2	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
TR61	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
TR71	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR71	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR72	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
TR73	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR81	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR121	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR121	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0
TR301	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	No Hazard.	AVR1:0
		G-D	Normal operation.	
TR302_1	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
TR302_2	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	No Hazard.	AVR1:0
TR421	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR421	Short	D-S	No Hazard.	AVR1:0
		S-G	Normal operation.	
		G-D	No Hazard.	AVR1:0
TR721	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	Output voltage decreased or increased.	AVR1:decreased or increased
		B-C	No Hazard.	AVR1:0
ZD81	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
ZD121	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
ZD151	Open		Normal operation.	
	Short		Normal operation.	
R11	Open		Normal operation.	
R31	Open		No Hazard.	AVR1:0
R51	Open		No Hazard.	AVR1:0
R52	Open		No Hazard.	AVR1:0
R53	Open		Normal operation.	
R54	Open		Normal operation.	
R61	Open		Normal operation.	
R62	Open		Normal operation.	
R63	Open		Normal operation.	



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Component	Mode	Comment	Output Voltage (V)
R71	Open	No Hazard.	AVR1:0
R72	Open	See 18 Page.	
R73	Open	See 18 Page.	
R74	Open	Normal operation.	
R75	Open	No Hazard.	AVR1:0
R76	Open	No Hazard.	AVR1:0
R77	Open	No Hazard.	AVR1:0
R78	Open	No Hazard.	AVR1:0
R79	Open	No Hazard.	AVR1:0
R81	Open	No Hazard.	AVR1:0
R82	Open	No Hazard.	AVR1:0
R111	Open	Normal operation.	
R112	Open	Normal operation.	
R113	Open	No Hazard.	AVR1:0
R114	Open	Normal operation.	
R115	Open	No Hazard.	AVR1:0
R116	Open	Normal operation.	
R117	Open	No Hazard.	AVR1:0
R121	Open	Normal operation.	
R122	Open	Normal operation.	
R123	Open	Normal operation.	
R124	Open	Normal operation.	
R125	Open	Normal operation.	
R131	Open	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R132	Open	No Hazard.	AVR1:0
R133	Open	No Hazard.	AVR1:0
R134	Open	No Hazard.	AVR1:0
R141	Open	No Hazard.	AVR1:0
R151	Open	No Hazard.	AVR1:0
R152	Open	No Hazard.	AVR1:0
R153	Open	Normal operation.	
R211	Open	No Hazard.	AVR1:0
R212	Open	No Hazard.	AVR1:0
R221	Open	No Hazard.	AVR1:0
R301	Open	Normal operation.	
R302	Open	Normal operation.	
R303	Open	Normal operation.	
R304	Open	No Hazard.	AVR1:0
R305	Open	Normal operation.	
R306	Open	Normal operation.	
R307	Open	Normal operation.	
R308	Open	Normal operation.	
R401	Open	No Hazard.	AVR1:0
R402	Open	No Hazard.	AVR1:0
R403	Open	No Hazard.	AVR1:0
R411	Open	No Hazard.	AVR1:0
R412	Open	No Hazard.	AVR1:0
R413	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R421	Open	Normal operation.	
R422	Open	No Hazard.	AVR1:0
R451	Open	Normal operation.	
R721	Open	No Hazard.	AVR1:0
R722	Open	Output voltage decreased or increased.	AVR1:decreased or increased
R723	Open	No Hazard.	AVR1:0
R724	Open	Normal operation.	
R725	Open	Normal operation.	
R731	Open	Output voltage decreased or increased.	AVR1:decreased or increased
R732	Open	No Hazard.	AVR1:0
R801	Open	No Hazard.	AVR1:0
R802	Open	No Hazard.	AVR1:0
R803	Open	Normal operation.	
R811	Open	No Hazard.	AVR1:0
R812	Open	No Hazard.	AVR1:0
R813	Open	No Hazard.	AVR1:0
R814	Open	Output voltage decreased or increased.	AVR1:decreased or increased



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C11	Short		No Hazard.	AVR1:0
C12	Short		No Hazard.	AVR1:0
CN6	Open		No Hazard.	AVR1:0
D71	Short		No Hazard.	AVR1:0
D81	Short		No Hazard.	AVR1:0
IC401	Short	13-14	No Hazard.	AVR1:0
		19-20	Normal operation.	
IC721	Open	3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
SS71	Open	1	Normal operation.	
		2	Normal operation.	
		3	Normal operation.	
TR21	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
R72	Open		Normal operation.	
R73	Open		No Hazard.	AVR1:0