

ABNORMAL TEST RESULT

OF MODEL CHS1204812

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 : 2/19 ~ 16/19)

(Abnormal Test Result: 17/19 ~ 19/19)

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	External fuse opened.No hazard.	
C102	Open	See 17 Page.	
	Short	Output voltage decreased.No hazard.	
C103	Open	See 17 Page.	
	Short	Output voltage decreased.No hazard.	
C110	Open	Normal operation.	
	Short	Normal operation.	
C111	Open	Normal operation.	
	Short	No hazard.	
C112	Open	Output voltage decreased.No hazard.	
	Short	See 17 Page.	
C121	Open	Normal operation.	
	Short	No hazard.	
C122	Open	Output voltage decreased.No hazard.	
	Short	Output voltage decreased.No hazard.	
C123	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C141	Open	Normal operation.	
	Short	No hazard.	
C142	Open	Normal operation.	
	Short	No hazard.	
C201	Open	Normal operation.	
	Short	No hazard.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C211	Open	Normal operation.	
	Short	Normal operation.	
C221	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C301	Open	See 17 Page.	
	Short	Output voltage increased.No hazard.	
C303	Open	Normal operation.	
	Short	No hazard.	
C311	Open	No hazard.	
	Short	Output voltage decreased.No hazard.	
C312	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C313	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C314	Open	Normal operation.	
	Short	No hazard.	
C351	Open	Normal operation.	
	Short	Normal operation.	
C352	Open	Normal operation.	
	Short	Normal operation.	
C353	Open	Normal operation.	
	Short	Normal operation.	
C354	Open	Output voltage decreased.No hazard.	
	Short	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C401	Open	Normal operation.	
	Short	No hazard.	
C501	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C502	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C503	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C504	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C505	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C511	Open	Normal operation.	
	Short	See 17 Page.	
C521	Open	Normal operation.	
	Short	See 17 Page.	
C601	Open	Normal operation.	
	Short	Output voltage increased.No hazard.	
C602	Open	Normal operation.	
	Short	Output voltage increased.No hazard.	
C701	Open	No hazard.	
	Short	Output voltage increased.No hazard.	
C703	Open	Normal operation.	
	Short	Output voltage increased.No hazard.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C711	Open	Normal operation.	
	Short	Output voltage increased.No hazard.	
C712	Open	Normal operation.	
	Short	Output voltage increased.No hazard.	
C713	Open	Normal operation.	
	Short	Output voltage decreased.No hazard.	
C714	Open	No hazard.	
	Short	No hazard.	
C715	Open	Normal operation.	
	Short	No hazard.	
C716	Open	Normal operation.	
	Short	No hazard.	
C721	Open	No hazard.	
	Short	Output voltage decreased.No hazard.	
C801	Open	Normal operation.	
	Short	Normal operation.	
C802	Open	Normal operation.	
	Short	Normal operation.	
D111	Open	See 17 Page.	
	Short	Normal operation.	
D112	Open	See 17 Page.	
	Short	Normal operation.	
D121	Open	See 17 Page.	
	Short	No hazard.	



F M E A

Component	Mode	Comment	Output Voltage (V)	
D122	Open	Output voltage decreased.No hazard.		
	Short	See 17 Page.		
D131	Open	Normal operation.		
	Short	Normal operation.		
D301	Open	Output voltage increased.No hazard.		
	Short	Output voltage decreased.No hazard.		
D351	Open	Normal operation.		
	Short	Normal operation.		
D701	Open	Output voltage increased.No hazard.		
	Short	Output voltage decreased.No hazard.		
IC111	Open	1	No hazard.	
		2	Output voltage decreased.No hazard.	
		3	Output voltage decreased.No hazard.	
		4	Output voltage decreased.No hazard.	
		5	Output voltage decreased.No hazard.	
		6	Output voltage decreased.No hazard.	
		7	No hazard.	
		8	Output voltage decreased.No hazard.	
	Short	1-2	See 17 Page.	
		2-3	See 17 Page.	
		3-4	Output voltage decreased.No hazard.	
		5-6	No hazard.	
		6-7	Output voltage decreased.No hazard.	
		7-8	Output voltage decreased.No hazard.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC141	Open	1	No hazard.	
		2	No hazard.	
		3	No hazard.	
	Short	1-2	No hazard.	
		2-3	No hazard.	
IC301	Open	1	Normal operation.	
		2	No hazard.	
		3	Output voltage decreased.No hazard.	
		4	Normal operation.	
		5	Output voltage decreased.No hazard.	
		6	Output voltage increased.No hazard.	
		7	Output voltage increased.No hazard.	
		8	See 17 Page.	
		9	See 17 Page.	
		10	Output voltage decreased.No hazard.	
		11	Output voltage decreased.No hazard.	
		12	No hazard.	
		13	No hazard.	
		14	Output voltage decreased.No hazard.	
		15	Normal operation.	
		16	Normal operation.	
		17	No hazard.	
		18	No hazard.	
		19	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Open	20	Normal operation.	
	Short	1-2	No hazard.	
		2-3	Output voltage decreased.No hazard.	
		3-4	Output voltage decreased.No hazard.	
		4-5	Output voltage decreased.No hazard.	
		6-7	Output voltage increased.No hazard.	
		7-8	Output voltage decreased.No hazard.	
		8-9	See 17 Page.	
		9-10	See 17 Page.	
		11-12	No hazard.	
		12-13	Normal operation.	
		13-14	No hazard.	
		14-15	No hazard.	
		16-17	Normal operation.	
		17-18	No hazard.	
		18-19	Normal operation.	
		19-20	Normal operation.	
		IC401	Open	1
2	See 17 Page.			
3	See 17 Page.			
4	See 17 Page.			
5	See 17 Page.			
6	See 17 Page.			
7	See 17 Page.			



F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Open	8	See 17 Page.	
	Short	1-2	Output voltage decreased.No hazard.	
		2-3	See 17 Page.	
		3-4	See 18 Page.	
		5-6	See 18 Page.	
		6-7	Output voltage decreased.No hazard.	
		7-8	Output voltage decreased.No hazard.	
IC601	Open	1	See 18 Page.	
		2	See 18 Page.	
		3	See 18 Page.	
		4	See 18 Page.	
		5	See 18 Page.	
		6	See 18 Page.	
		7	See 18 Page.	
		8	See 18 Page.	
	Short	1-2	See 18 Page.	
		2-3	See 18 Page.	
		3-4	See 18 Page.	
		5-6	Output voltage decreased.No hazard.	
		6-7	Output voltage decreased.No hazard.	
		7-8	Output voltage decreased.No hazard.	
IC701	Open	1	Output voltage increased.No hazard.	
		2	Output voltage increased.No hazard.	
		3	See 18 Page.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC701	Open	4	See 18 Page.	
		5	Output voltage increased.No hazard.	
	Short	1-2	Output voltage decreased.No hazard.	
		2-3	Output voltage decreased.No hazard.	
		4-5	Output voltage decreased.No hazard.	
IC702	Open	1	Output voltage increased.No hazard.	
		2	Normal operation.	
		3	Output voltage increased.No hazard.	
		4	Normal operation.	
		5	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		4-5	Normal operation.	
L101	Open		Output voltage decreased.No hazard.	
	Short		Normal operation.	
PC311	Open	A, K	Output voltage increased.No hazard.	
		C, E	Output voltage increased.No hazard.	
	Short	A-K	Output voltage increased.No hazard.	
		C-E	Output voltage decreased.No hazard.	
R101	Open		Normal operation.	
R102	Open		Normal operation.	
R103	Open		Normal operation.	
R104	Open		Normal operation.	
R105	Open		See 18 Page.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R111	Open	Output voltage decreased.No hazard.	
R112	Open	See 18 Page.	
R113	Open	Normal operation.	
R114	Open	Output voltage decreased.No hazard.	
R115	Open	See 18 Page.	
R116	Open	Normal operation.	
R117	Open	Normal operation.	
R118	Open	Normal operation.	
R121	Open	Output voltage decreased.No hazard.	
R123	Open	Output voltage decreased.No hazard.	
R124	Open	Output voltage increased.No hazard.	
R125	Open	See 18 Page.	
R131	Open	Normal operation.	
R132	Open	Normal operation.	
R133	Open	Normal operation.	
R134	Open	Normal operation.	
R135	Open	Normal operation.	
R141	Open	No hazard.	
R201	Open	No hazard.	
R202	Open	No hazard.	
R203	Open	Normal operation.	
R211	Open	No hazard.	
R212	Open	Normal operation.	
R213	Open	No hazard.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R221	Open	Output voltage decreased.No hazard.	
R301	Open	Output voltage increased.No hazard.	
R302	Open	Output voltage increased.No hazard.	
R303	Open	Output voltage increased.No hazard.	
R311	Open	Output voltage decreased.No hazard.	
R312	Open	Output voltage decreased.No hazard.	
R313	Open	Normal operation.	
R315	Open	Normal operation.	
R316	Open	Output voltage increased.No hazard.	
R321	Open	Normal operation.	
R351	Open	Normal operation.	
R352	Open	Normal operation.	
R353	Open	Output voltage decreased.No hazard.	
R354	Open	Normal operation.	
R355	Open	Normal operation.	
R357	Open	Normal operation.	
R401	Open	Normal operation.	
R402	Open	Normal operation.	
R511	Open	See 18 Page.	
R512	Open	Normal operation.	
R513	Open	Normal operation.	
R514	Open	Normal operation.	
R515	Open	Normal operation.	
R516	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R521	Open	See 18 Page.	
R522	Open	Normal operation.	
R523	Open	Normal operation.	
R524	Open	Normal operation.	
R525	Open	Normal operation.	
R526	Open	Normal operation.	
R601	Open	Output voltage increased.No hazard.	
R701	Open	Output voltage increased.No hazard.	
R702	Open	Output voltage increased.No hazard.	
R703	Open	Output voltage increased.No hazard.	
R711	Open	Output voltage decreased.No hazard.	
R712	Open	Output voltage decreased.No hazard.	
R713	Open	Output voltage increased.No hazard.	
R714	Open	No hazard.	
R715	Open	Normal operation.	
R716	Open	Output voltage increased.No hazard.	
R721	Open	Output voltage increased.No hazard.	
R722	Open	Output voltage increased.No hazard.	
R723	Open	Output voltage decreased.No hazard.	
R725	Open	Normal operation.	
R726	Open	No hazard.	
R801	Open	Output voltage increased.No hazard.	
R802	Open	Output voltage increased.No hazard.	
TR101	Open	D See 18 Page.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR101	Open	S	See 18 Page.	
		G	See 18 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR102	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR131	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No hazard.	
		E-B	Normal operation.	
		B-C	External fuse opened.No hazard.	
TR351	Open	1 (1)	Output voltage decreased.No hazard.	
		2 (2)	Normal operation.	
		2 (3)	Normal operation.	
		2 (4)	Normal operation.	
		1 (5)	Output voltage decreased.No hazard.	
		1 (6)	Output voltage decreased.No hazard.	
		Short	1-2 (1-2)	Normal operation.



F M E A

Component	Mode		Comment	Output Voltage (V)
TR351	Short	2-2 (2-3)	Normal operation.	
		2-1 (4-5)	Output voltage decreased. No hazard.	
		1-1 (5-6)	Output voltage decreased. No hazard.	
TR511	Open	D	Output voltage decreased. No hazard.	
		S	Output voltage decreased. No hazard.	
		G	Output voltage decreased. No hazard.	
	Short	D-S	Output voltage decreased. No hazard.	
		S-G	See 19 Page.	
		G-D	Output voltage decreased. No hazard.	
TR521	Open	D	Output voltage decreased. No hazard.	
		S	Output voltage decreased. No hazard.	
		G	Output voltage decreased. No hazard.	
	Short	D-S	Output voltage decreased. No hazard.	
		S-G	See 19 Page.	
		G-D	Output voltage decreased. No hazard.	
TR601	Open	D	Output voltage increased. No hazard.	
		S	Output voltage increased. No hazard.	
		G	Output voltage increased. No hazard.	
	Short	D-S	Output voltage increased. No hazard.	
		S-G	Output voltage increased. No hazard.	
		G-D	Output voltage increased. No hazard.	
TR701	Open	C	Normal operation.	
		E	Output voltage increased. No hazard.	
		B	Output voltage increased. No hazard.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR701	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Output voltage increased.No hazard.	
TR702	Open	C	Output voltage increased.No hazard.	
		E	Output voltage increased.No hazard.	
		B	Output voltage increased.No hazard.	
	Short	C-E	Output voltage decreased.No hazard.	
		E-B	No hazard.	
		B-C	Output voltage decreased.No hazard.	
ZD131	Open		Normal operation.	
	Short		Normal operation.	
ZD132	Open		Normal operation.	
	Short		Normal operation.	
ZD201	Open		Normal operation.	
	Short		Normal operation.	
ZD601	Open		See 19 Page.	
	Short		Output voltage increased.No hazard.	
ZD701	Open		See 19 Page.	
	Short		Output voltage increased.No hazard.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C102	Open		No hazard.	
C103	Open		No hazard.	
C112	Short		No hazard.	
C301	Open		Output voltage decreased.No hazard.	
C511	Short		Output voltage decreased.No hazard.	
C521	Short		Output voltage decreased.No hazard.	
D111	Open		No hazard.	
D112	Open		No hazard.	
D121	Open		No hazard.	
D122	Short		Output voltage decreased.No hazard.	
IC111	Short	1-2	Output voltage decreased.No hazard.	
		2-3	Output voltage decreased.No hazard.	
IC301	Open	8	No hazard.	
		9	No hazard.	
	Short	8-9	Output voltage decreased.No hazard.	
		9-10	Output voltage decreased.No hazard.	
IC401	Open	2	No hazard.	
		3	No hazard.	
		4	No hazard.	
		5	No hazard.	
		6	No hazard.	
		7	No hazard.	
		8	No hazard.	
	Short	2-3	No hazard.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC401	Short	3-4	No hazard.	
		5-6	No hazard.	
IC601	Open	1	No hazard.	
		2	No hazard.	
		3	No hazard.	
		4	No hazard.	
		5	No hazard.	
		6	No hazard.	
		7	No hazard.	
		8	No hazard.	
	Short	1-2	Output voltage decreased.No hazard.	
		2-3	No hazard.	
3-4		No hazard.		
IC701	Open	3	No hazard.	
		4	No hazard.	
R105	Open		No hazard.	
R112	Open		No hazard.	
R115	Open		No hazard.	
R125	Open		No hazard.	
R511	Open		No hazard.	
R521	Open		No hazard.	
TR101	Open	D	Output voltage decreased.No hazard.	
		S	Output voltage decreased.No hazard.	
		G	No hazard.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR101	Short	D-S	Output voltage decreased.No hazard.	
		S-G	Output voltage decreased.No hazard.	
		G-D	Output voltage decreased.No hazard.	
TR102	Open	D	Output voltage decreased.No hazard.	
		S	Output voltage decreased.No hazard.	
		G	No hazard.	
	Short	D-S	Output voltage decreased.No hazard.	
		S-G	Output voltage decreased.No hazard.	
		G-D	Output voltage decreased.No hazard.	
TR511	Short	S-G	No hazard.	
TR521	Short	S-G	No hazard.	
ZD601	Open		No hazard.	
ZD701	Open		No hazard.	