

ABNORMAL TEST RESULT

OF MODEL MGFS8048□□

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 ~ 17/19)

(Abnormal Test Result: 18/19 ~ 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	See 18 Page.	
C102	Open	Normal operation.	
	Short	See 18 Page.	
C103	Open	Normal operation.	
	Short	See 18 Page.	
C104	Open	Normal operation.	
	Short	See 18 Page.	
C105	Open	Normal operation.	
	Short	See 18 Page.	
C111	Open	Normal operation.	
	Short	See 18 Page.	
C112	Open	Normal operation.	
	Short	See 18 Page.	
C113	Open	Normal operation.	
	Short	See 18 Page.	
C114	Open	Normal operation.	
	Short	See 18 Page.	
C115	Open	Normal operation.	
	Short	See 18 Page.	
C116	Open	Normal operation.	
	Short	See 18 Page.	
C117	Open	Normal operation.	
	Short	See 18 Page.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C118	Open	Normal operation.	
	Short	See 18 Page.	
C119	Open	Normal operation.	
	Short	See 18 Page.	
C120	Open	Normal operation.	
	Short	See 18 Page.	
C141	Open	Normal operation.	
	Short	Normal operation.	
C142	Open	Normal operation.	
	Short	Normal operation.	
C143	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C151	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C201	Open	Normal operation.	
	Short	Normal operation.	
C211	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C212	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C231	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C241	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C242	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C243 (Except:3R3,05)	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C244	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C251	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C252	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C253	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C261	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C271	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C281	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Normal operation.	
C291	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C292	Open	Normal operation.	
	Short	Normal operation.	
C501	Open	Normal operation.	
	Short	See 18 Page.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C502	Open	Normal operation.	
	Short	See 18 Page.	
C503	Open	Normal operation.	
	Short	See 18 Page.	
C504	Open	Normal operation.	
	Short	See 18 Page.	
C505	Open	Normal operation.	
	Short	See 18 Page.	
C506	Open	Normal operation.	
	Short	See 18 Page.	
C507	Open	Normal operation.	
	Short	See 18 Page.	
C508	Open	Normal operation.	
	Short	See 18 Page.	
C509	Open	Normal operation.	
	Short	See 18 Page.	
C510	Open	Normal operation.	
	Short	See 19 Page.	
C512	Open	Normal operation.	
	Short	See 19 Page.	
C513	Open	Normal operation.	
	Short	See 19 Page.	
C514	Open	Normal operation.	
	Short	See 19 Page.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C521	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C601	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C711	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C712	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C713	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C716 (Only:3R3)	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C717 (Only:05)	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C718	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C901	Open	Normal operation.	
	Short	Normal operation.	
D101	Open	Normal operation.	
	Short	Normal operation.	
D111	Open	Normal operation.	
	Short	Normal operation.	
D141	Open	Normal operation.	
	Short	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)	
D201	Open	Normal operation.		
	Short	No Hazard.	AVR1:0	
D252	Open	Normal operation.		
	Short	No Hazard.	AVR1:0	
D262	Open	Normal operation.		
	Short	External Fuse opened, No hazard.	AVR1:0	
D271	Open	No Hazard.	AVR1:0	
	Short	Output voltage decreased. No hazard.	AVR1:decreased	
D281	Open	Normal operation.		
	Short	Normal operation.		
D291	Open	Normal operation.		
	Short	Normal operation.		
D501	Open	Normal operation.		
	Short	Normal operation.		
D502	Open	Normal operation.		
	Short	Normal operation.		
D711	Open	Normal operation.		
	Short	Output voltage decreased. No hazard.	AVR1:decreased	
D712	Open	Normal operation.		
	Short	Output voltage decreased. No hazard.	AVR1:decreased	
IC201	Open	1	Normal operation.	
		2	Normal operation.	
		3	No Hazard.	AVR1:0
		4	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)		
IC201	Open	5	Output voltage decreased. No hazard.	AVR1:decreased	
		6	No Hazard.	AVR1:0	
		7	Normal operation.		
		8	Normal operation.		
		9	Normal operation.		
		10	No Hazard.	AVR1:0	
		11	Normal operation.		
		12	External Fuse opened, 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	Normal operation.		
		Short	1-2	Normal operation.	
			2-3	Normal operation.	
			3-4	No Hazard.	AVR1:0
			4-5	No Hazard.	AVR1:0
	6-7		No Hazard.	AVR1:0	
	7-8		No Hazard.	AVR1:0	
	8-9		No Hazard.	AVR1:0	
	9-10		No Hazard.	AVR1:0	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	11-12	No Hazard.	AVR1:0
		12-13	No Hazard.	AVR1:0
		13-14	Normal operation.	
		14-15	Normal operation.	
		16-17	Normal operation.	
		17-18	External Fuse opened, No hazard.	AVR1:0
		18-19	No Hazard.	AVR1:0
		19-20	No Hazard.	AVR1:0
IC202	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	Normal operation.	
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	Normal operation.	
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		4-5	External Fuse opened, No hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0
IC203	Open	1	Normal operation.	
		2	No Hazard.	AVR1:0
		3	External Fuse opened, No hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC203	Open	7	Normal operation.	
		8	Normal operation.	
	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	Normal operation.	
		7-8	External Fuse opened, No hazard.	AVR1:0
IC601	Open	1	See 19 Page.	
		2	See 19 Page.	
		3	External Fuse opened, No hazard.	AVR1:0
		4	See 19 Page.	
		5	See 19 Page.	
		6	See 19 Page.	
		7	See 19 Page.	
		8	See 19 Page.	
	Short	1-2	See 19 Page.	
		2-3	See 19 Page.	
		3-4	See 19 Page.	
		5-6	See 19 Page.	
		6-7	See 19 Page.	
		7-8	See 19 Page.	
		IC701	Open	1
2	Normal operation.			



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Component	Mode	Comment	Output Voltage (V)	
IC701	Open	3	Output voltage increased. No hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		6	Output voltage increased. No hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		4-5	Normal operation.	
		5-6	Normal operation.	
IC731	Open	1	Normal operation.	
		2	Normal operation.	
		3	Normal operation.	
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
4-5		Normal operation.		
5-6		Normal operation.		
L101	Open	No Hazard.	AVR1:0	
	Short	Normal operation.		
L291	Open	No Hazard.	AVR1:0	
	Short	No Hazard.	AVR1:0	
L501	Open	No Hazard.	AVR1:0	
	Short	Normal operation.		



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Component	Mode		Comment	Output Voltage (V)
L601	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
PC201	Open	A, K	Output voltage increased. No hazard.	AVR1:0
		C, E	Output voltage increased. No hazard.	AVR1:0
	Short	A-K	Output voltage increased. No hazard.	AVR1:0
		C-E	Output voltage increased. No hazard.	AVR1:0
PC291	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	Output voltage increased. No hazard.	AVR1:0
R101	Open		No Hazard.	AVR1:0
R102	Open		No Hazard.	AVR1:0
R103	Open		Normal operation.	
R111	Open		No Hazard.	AVR1:0
R141	Open		Normal operation.	
R142	Open		Normal operation.	
R143	Open		Normal operation.	
R201	Open		No Hazard.	AVR1:0
R202	Open		Normal operation.	
R203	Open		Normal operation.	
R204	Open		Normal operation.	
R211	Open		No Hazard.	AVR1:0
R212	Open		No Hazard.	AVR1:0
R213	Open		Normal operation.	



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Component	Mode	Comment	Output Voltage (V)
R214	Open	No Hazard.	AVR1:0
R221	Open	Normal operation.	
R222	Open	Normal operation.	
R223	Open	Normal operation.	
R224	Open	Normal operation.	
R225	Open	Normal operation.	
R231	Open	Normal operation.	
R232	Open	Normal operation.	
R241	Open	No Hazard.	AVR1:0
R242	Open	No Hazard.	AVR1:0
R244	Open	Output voltage decreased. No hazard.	AVR1:decreased
R251	Open	Normal operation.	
R252	Open	Normal operation.	
R253	Open	Normal operation.	
R254	Open	Normal operation.	
R255	Open	No Hazard.	AVR1:0
R256	Open	No Hazard.	AVR1:0
R258	Open	No Hazard.	AVR1:0
R261	Open	No Hazard.	AVR1:0
R262	Open	No Hazard.	AVR1:0
R271	Open	External Fuse opened, No hazard.	AVR1:0
R272	Open	External Fuse opened, No hazard.	AVR1:0
R273	Open	External Fuse opened, No hazard.	AVR1:0
R274	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R275	Open	Normal operation.	
R276	Open	Normal operation.	
R277	Open	Normal operation.	
R281	Open	Normal operation.	
R282	Open	Normal operation.	
R283	Open	Normal operation.	
R291	Open	Normal operation.	
R292	Open	Normal operation.	
R293	Open	No Hazard.	AVR1:0
R294 (Except:3R3)	Open	Normal operation.	
R295 (Only:3R3)	Open	Normal operation.	
R296	Open	Normal operation.	
R501	Open	No Hazard.	AVR1:0
R503	Open	No Hazard.	AVR1:0
R504	Open	No Hazard.	AVR1:0
R505	Open	Normal operation.	
R506	Open	Normal operation.	
R601 (Except:3R3)	Open	No Hazard.	AVR1:0
R602 (Only:3R3)	Open	No Hazard.	AVR1:0
R603	Open	No Hazard.	AVR1:0
R606	Open	External Fuse opened, No hazard.	AVR1:0
R607	Open	No Hazard.	AVR1:0
R701	Open	Output voltage increased. No hazard.	AVR1:0
R702	Open	Output voltage increased. No hazard.	AVR1:0



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Component	Mode	Comment	Output Voltage (V)
R704	Open	Output voltage increased. No hazard.	AVR1:0
R705	Open	Output voltage increased. No hazard.	AVR1:0
R711	Open	Normal operation.	
R712	Open	Normal operation.	
R713	Open	Output voltage increased. No hazard.	AVR1:0
R714	Open	Output voltage decreased. No hazard.	AVR1:decreased
R715	Open	Output voltage increased. No hazard.	AVR1:0
R716	Open	Output voltage decreased. No hazard.	AVR1:decreased
R717	Open	Output voltage decreased. No hazard.	AVR1:decreased
R721	Open	Normal operation.	
R722	Open	Output voltage increased. No hazard.	AVR1:0
R731	Open	Normal operation.	
R732	3R3	Open	Normal operation.
	05, 12, 15	Open	Output voltage increased. No hazard.
R733	Open	Normal operation.	
R734	Open	Normal operation.	
R735	Open	Normal operation.	
SS251	Open	Normal operation.	
	Short	Normal operation.	
SS601	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
TH231	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
TR101	Open	D	See 19 Page.



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Component	Mode		Comment	Output Voltage (V)
TR101	Open	S	See 19 Page.	
		G	See 19 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR141	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR221	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	External Fuse opened, No hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR222	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	External Fuse opened, No hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR501	Open	D	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR501	Open	S	No Hazard.	AVR1:0
		G	External Fuse opened, No hazard.	AVR1:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	External Fuse opened, No hazard.	AVR1:0
	TR502	Open	D	No Hazard.
S			No Hazard.	AVR1:0
G			External Fuse opened, No hazard.	AVR1:0
Short		D-S	External Fuse opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	External Fuse opened, No hazard.	AVR1:0
ZD221	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
ZD271	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD281	Open		Normal operation.	
	Short		No Hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C101	Short	External Fuse opened, No hazard.	AVR1:0
C102	Short	External Fuse opened, No hazard.	AVR1:0
C103	Short	External Fuse opened, No hazard.	AVR1:0
C104	Short	External Fuse opened, No hazard.	AVR1:0
C105	Short	External Fuse opened, No hazard.	AVR1:0
C111	Short	External Fuse opened, No hazard.	AVR1:0
C112	Short	External Fuse opened, No hazard.	AVR1:0
C113	Short	External Fuse opened, No hazard.	AVR1:0
C114	Short	External Fuse opened, No hazard.	AVR1:0
C115	Short	External Fuse opened, No hazard.	AVR1:0
C116	Short	External Fuse opened, No hazard.	AVR1:0
C117	Short	External Fuse opened, No hazard.	AVR1:0
C118	Short	External Fuse opened, No hazard.	AVR1:0
C119	Short	External Fuse opened, No hazard.	AVR1:0
C120	Short	External Fuse opened, No hazard.	AVR1:0
C501	Short	No Hazard.	AVR1:0
C502	Short	No Hazard.	AVR1:0
C503	Short	No Hazard.	AVR1:0
C504	Short	No Hazard.	AVR1:0
C505	Short	No Hazard.	AVR1:0
C506	Short	No Hazard.	AVR1:0
C507	Short	No Hazard.	AVR1:0
C508	Short	No Hazard.	AVR1:0
C509	Short	No Hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C510	Short		No Hazard.	AVR1:0
C512	Short		No Hazard.	AVR1:0
C513	Short		No Hazard.	AVR1:0
C514	Short		No Hazard.	AVR1:0
IC601	Open	1	External Fuse opened, No hazard.	AVR1:0
		2	External Fuse opened, No hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	External Fuse opened, No hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
		Short	1-2	No Hazard.
	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
TR101	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	External Fuse opened, No hazard.	AVR1:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	External Fuse opened, No hazard.	AVR1:0