

## ABNORMAL TEST RESULT

OF MODEL MGS312□□

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/ 8 ~ 7/ 8)

( Abnormal Test Result: 8/ 8 ~ 8/ 8)

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	Normal operation.	
	Short	No Hazard.	AVR1:0
C12	Open	No Hazard.	AVR1:0
	Short	External Fuse opened, No hazard.	AVR1:0
C21	Open	Normal operation.	
	Short	Normal operation.	
C22	Open	No Hazard.	
	Short	External Fuse opened, No hazard.	AVR1:0
C31	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C32	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C33	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C41	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C51	Open	Normal operation.	
	Short	See 8 Page.	
C52	Open	Normal operation.	
	Short	See 8 Page.	
C71	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C72	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased

## F M E A

Component	Mode		Comment	Output Voltage (V)
C101	Open		Normal operation.	
	Short		See 8 Page.	
C102	Open		Normal operation.	
	Short		See 8 Page.	
C103	Open		Normal operation.	
	Short		See 8 Page.	
C111	Open		Normal operation.	
	Short		See 8 Page.	
C211 only 3.3V, 5V	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
D21	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
D31	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
D201	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
D202	Open		Normal operation.	
	Short		External Fuse opened, No hazard.	AVR1:0
IC11	Open	1	No Hazard.	AVR1:0
		2	See 8 Page.	
		3	No Hazard.	AVR1:0
		4	Normal operation.	
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC11	Open	7	External Fuse opened, No hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	External Fuse opened, No hazard.	AVR1:0
		2-3	Normal operation.	
		3-4	Output voltage decreased. No hazard.	AVR1:decreased
		5-6	No Hazard.	AVR1:0
		6-7	Output voltage decreased. No hazard.	AVR1:decreased
		7-8	Output voltage decreased. No hazard.	AVR1:decreased
IC12	Open	1	External Fuse opened, No hazard.	AVR1:0
		2	Normal operation.	
		3	External Fuse opened, No hazard.	AVR1:0
		4	Normal operation.	
		5	See 8 Page.	
		6	No Hazard.	AVR1:0
	Short	1-2	External Fuse opened, 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
IC71	Open	3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
	Short	3-4	Output voltage decreased. No hazard.	AVR1:decreased
		4-5	No Hazard.	AVR1:0
PC11	Open	A, K	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
PC11	Open	C, E	No Hazard.	AVR1:0
	Short	A-K	No Hazard.	AVR1:0
		C-E	No Hazard.	AVR1:0
R11	Open		No Hazard.	AVR1:0
R13	Open		Normal operation.	
R14	Open		External Fuse opened, No hazard.	AVR1:0
R15	Open		External Fuse opened, No hazard.	AVR1:0
R16	Open		Normal operation.	AVR1:*
R17	Open		No Hazard.	AVR1:0
R21	Open		Normal operation.	
R22	Open		Normal operation.	
R24	Open		No Hazard.	AVR1:0
R31	Open		External Fuse opened, No hazard.	AVR1:0
R41	Open		Normal operation.	
R42	Open		No Hazard.	AVR1:0
R43	Open		Normal operation.	
R71	Open		No Hazard.	AVR1:0
R72	Open		No Hazard.	AVR1:0
R73	Open		Output voltage decreased. No hazard.	AVR1:decreased
R74	Open		No Hazard.	AVR1:0
R75	Open		Output voltage decreased. No hazard.	AVR1:decreased
R76	Open		Output voltage decreased. No hazard.	AVR1:decreased
R77	Open		Output voltage decreased. No hazard.	AVR1:decreased
R111	Open		No Hazard.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
R112	Open		Normal operation.	
SS41	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	No Hazard.	AVR1:0
	Short	1-2	External Fuse opened, No hazard.	AVR1:0
		1-3	External Fuse opened, No hazard.	AVR1:0
		2-3	Normal operation.	
TR11	Open	D	See 8 Page.	
		S	See 8 Page.	
		G	See 8 Page.	
	Short	D-S	See 8 Page.	
		S-G	See 8 Page.	
		G-D	See 8 Page.	
TR12	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
TR101	Open	D	Normal operation.	
		S	Normal operation.	
		G	No Hazard.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
TR101	Short	G-D	No Hazard.	
ZD11	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD21	Open		No Hazard.	AVR1:0
	Short		Normal operation.	

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C51	Short		No Hazard.	AVR1:0
C52	Short		No Hazard.	AVR1:0
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
IC11	Open	2	External Fuse opened, No hazard.	AVR1:0
IC12	Open	5	External Fuse opened, No hazard.	AVR1:0
TR11	Open	D	No Hazard.	AVR1:0
		S	External Fuse opened, 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