

ABNORMAL TEST RESULT

OF MODEL GMA300F

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 : 2/32 ~ 29/32)

(Abnormal Test Result: 30/32 ~ 32/32)

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.	AVR1:*
	Short	F101 (F102) opened, No hazard.	AVR1:0
C102	Open	Normal operation.	AVR1:*
	Short	F101 (F102) opened, No hazard.	AVR1:0
C103	Open	See 30 Page.	
	Short	F101 (F102) opened, No hazard.	AVR1:0
C106	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C107	Open	Normal operation.	AVR1:*
	Short	See 30 Page.	
C108	Open	Normal operation.	AVR1:*
	Short	See 30 Page.	
C109	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C110	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C111	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C112	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C113	Open	Normal operation.	AVR1:*
	Short	F101 (F102) opened, No hazard.	AVR1:0
C114	Open	Normal operation.	AVR1:*
	Short	F101 (F102) opened, No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C115	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C116	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C117	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C119	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C121	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C122	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C123	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C124	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C125	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C126	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C127	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C128	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**

F M E A

Component	Mode	Comment	Output Voltage (V)
C201	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C202	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C203	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C204	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C205	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C206	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C207	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C208	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C210	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C211	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C212	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C213	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
C214	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C215	Open	Normal operation.	AVR1:*
	Short	See 30 Page.	
C216	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C217	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C218	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C219	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C220	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C221	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C222	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C223	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C224	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C225	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased

F M E A

Component	Mode	Comment	Output Voltage (V)
C226	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C227	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C228	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C229	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C230	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C231	Open	Normal operation.	AVR1:*
	Short	F101 (F102) opened, No hazard.	AVR1:0
C232	Open	Normal operation.	AVR1:*
	Short	F101 (F102) opened, No hazard.	AVR1:0
C233	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C301	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C303	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C304	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C306	Open	Normal operation.	AVR1:*
	Short	F101 (F102) opened, No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
C307	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C308	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C309	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C310	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C311	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C312	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C313	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C314	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C501	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C502	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C504	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
C505	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
C506	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0
C507	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0
C508	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0
C513	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
C514	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
C515	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0
C516	Open		Normal operation.	AVR1:**
	Short		No Hazard.	AVR1:0
C517	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0
C518	Open	(only_12)	Normal operation.	AVR1:**
	Short	(only_12)	No Hazard.	AVR1:0
C520	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C521	Open	(exc._12)	Normal operation.	AVR1:**
	Short	(exc._12)	No Hazard.	AVR1:0
C522	Open	(only_12)	Normal operation.	AVR1:**
	Short	(only_12)	Output voltage decreased. No hazard.	AVR1:decreased

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Component	Mode	Comment	Output Voltage (V)
C523	Open	Normal operation.	AVR1:**
	Short	Output voltage decreased. No hazard.	AVR1:decreased
D101	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D102	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D103	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D104	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D105	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:**
D106	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
D107	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D108	Open	Normal operation.	AVR1:**
	Short	No Hazard.	AVR1:0
D109	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D110	Open	Normal operation.	AVR1:**
	Short	F101 (F102) opened, No hazard.	AVR1:0
D111	Open	No Hazard.	AVR1:0
	Short	F101 (F102) opened, No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
D112	Open	No Hazard.	AVR1:0
	Short	F101 (F102) opened, No hazard.	AVR1:0
D113	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D201	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D202	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
D203	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
D204	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D205	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D206	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D301	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
D302	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
D303	Open	No Hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D501	Open	See 30 Page.	
	Short	See 30 Page.	

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Component	Mode		Comment	Output Voltage (V)
D502	Open	(only_12)	Normal operation.	AVR1:*
	Short	(only_12)	Normal operation.	AVR1:*
D503	Open	(only_12)	Normal operation.	AVR1:*
	Short	(only_12)	Normal operation.	AVR1:*
IC101	Open	1	Normal operation.	AVR1:*
		2	No Hazard.	AVR1:0
		3	Normal operation.	AVR1:*
		4	No Hazard.	AVR1:0
		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	Normal operation.	AVR1:*
		3-4	Output voltage decreased. No hazard.	AVR1:decreased
		5-6	No Hazard.	AVR1:0
		6-7	F101(F102) opened, No hazard.	AVR1:0
		7-8	No Hazard.	AVR1:0
IC102	Open	1	See 30 Page.	
		2	See 30 Page.	
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC102	Short	2-3	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
		9	F101 (F102) opened, No hazard.	AVR1:0
		10	Normal operation.	AVR1:*
		11	No Hazard.	AVR1:0
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	No Hazard.	AVR1:0
		15	F101 (F102) opened, No hazard.	AVR1:0
		16	No Hazard.	AVR1:0
		17	Normal operation.	AVR1:*
		18	Normal operation.	AVR1:*
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC201	Short	5-6	No Hazard.	AVR1:0
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
		8-9	F101 (F102) opened, No hazard.	AVR1:0
		10-11	No Hazard.	AVR1:0
		11-12	Normal operation.	AVR1:*
		12-13	Normal operation.	AVR1:*
		13-14	Normal operation.	AVR1:*
		14-15	No Hazard.	AVR1:0
		15-16	No Hazard.	AVR1:0
		16-17	Normal operation.	AVR1:*
		17-18	Normal operation.	AVR1:*
IC202	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	No Hazard.	AVR1:0
		10	No Hazard.	AVR1:0
		11	Normal operation.	AVR1:*
		12	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC202	Open	13	Normal operation.	AVR1:**
		14	No Hazard.	AVR1:0
		15	Normal operation.	AVR1:**
		16	Normal operation.	AVR1:**
		17	Normal operation.	AVR1:**
		18	No Hazard.	AVR1:0
		19	Output voltage decreased. No hazard.	AVR1:decreased
		20	Normal operation.	AVR1:**
	Short	1-2	Normal operation.	AVR1:**
		2-3	Normal operation.	AVR1:**
		3-4	No Hazard.	AVR1:0
		4-5	Normal operation.	AVR1:**
		5-6	Normal operation.	AVR1:**
		6-7	Normal operation.	AVR1:**
		7-8	No Hazard.	AVR1:0
		8-9	No Hazard.	AVR1:0
		9-10	No Hazard.	AVR1:0
		11-12	Normal operation.	AVR1:**
		12-13	No Hazard.	AVR1:0
		13-14	Normal operation.	AVR1:**
		14-15	Normal operation.	AVR1:**
		15-16	Normal operation.	AVR1:**
		16-17	Normal operation.	AVR1:**
		17-18	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC202	Short	18-19	Normal operation.	AVR1:*
		19-20	Output voltage decreased. No hazard.	AVR1:decreased
IC301	Open	D	See 30 Page.	
		S	See 30 Page.	
		C	See 30 Page.	
	Short	D-S	See 30 Page.	
		S-C	See 30 Page.	
		C-D	See 30 Page.	
IC302	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
IC501	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC501	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
IC502	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0
		6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
IC503	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC503	Open	5	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	Output voltage decreased. No hazard.	AVR1:decreased
	Open	4-5	See 32 Page.	
J101	Open		Normal operation.	AVR1:*
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L102	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L103	Open		F101 (F102) opened, No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L104	Open		F101 (F102) opened, No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L105	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
L301	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L302	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L501	Open		See 30 Page.	
	Short		Normal operation.	AVR1:*
L502	Open		See 30 Page.	
	Short		Normal operation.	AVR1:*
L503	Open		Normal operation.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
L503	Short		Normal operation.	AVR1:*
PC201	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
PC202	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No Hazard.	AVR1:0
PTH101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
PTH501	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
SS101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
	Short	1-2	F101 (F102) opened, No hazard.	AVR1:0
		2-3	F101 (F102) opened, No hazard.	AVR1:0
		2-4	F101 (F102) opened, No hazard.	AVR1:0
T201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	See 30 Page.	

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Component	Mode		Comment	Output Voltage (V)
T201	Open	5	No Hazard.	AVR1:0
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	No Hazard.	AVR1:0
		10	No Hazard.	AVR1:0
		11	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
		6-7	See 30 Page.	
		7-8	See 30 Page.	
		10-11	F101 (F102) opened, No hazard.	AVR1:0
T301	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	See 30 Page.	
		8	See 30 Page.	
	Short	1-2	F101 (F102) opened, No hazard.	AVR1:0
		2-3	F101 (F102) opened, No hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
T301	Short	5-6	No Hazard.	AVR1:0
		6-7	No Hazard.	AVR1:0
		7-8	No Hazard.	AVR1:0
TH101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
TH201	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
TR101	Open	D	See 30 Page.	
		S	See 30 Page.	
		G	See 30 Page.	
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR102	Open	D	See 31 Page.	
		S	See 31 Page.	
		G	See 31 Page.	
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR103	Open	C	F101 (F102) opened, No hazard.	AVR1:0
		E	F101 (F102) opened, No hazard.	AVR1:0
		B	F101 (F102) opened, No hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR103	Short	B-C	Normal operation.	AVR1:**
TR104	Open	C	Normal operation.	AVR1:**
		E	Normal operation.	AVR1:**
		B	Normal operation.	AVR1:**
	Short	C-E	No Hazard.	AVR1:0
		E-B	F101 (F102) opened, No hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
TR105	Open	C	Normal operation.	AVR1:**
		E	Normal operation.	AVR1:**
		B	Normal operation.	AVR1:**
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:**
		B-C	Normal operation.	AVR1:**
TR201	Open	D	See 31 Page.	
		S	See 31 Page.	
		G	See 31 Page.	
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR202	Open	D	See 31 Page.	
		S	See 31 Page.	
		G	See 31 Page.	
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR202	Short	G-D	See 31 Page.	
TR301	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	Normal operation.	AVR1:*
TR302	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
TR501	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
TR502	Open	D	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR502	Open	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
TR503	Open	C	See 31 Page.	
		E	See 31 Page.	
		B	See 31 Page.	
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR505	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0
VR501	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0
ZD201	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
ZD202	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
ZD301	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
ZD302	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
ZD303	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
ZD501	Open		Normal operation.	AVR1:*
	Short		See 32 Page.	
ZD502	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
ZD503	Open		Normal operation.	AVR1:*
	Short	(exc. _12)	No Hazard.	AVR1:0
ZD504	Open	(exc. _12, 24)	No Hazard.	AVR1:0
	Short	(exc. _12, 24)	No Hazard.	AVR1:0
R101	Open		Normal operation.	AVR1:*
R102	Open		No Hazard.	AVR1:0
R103	Open		No Hazard.	AVR1:0
R104	Open		No Hazard.	AVR1:0
R105	Open		No Hazard.	AVR1:0
R106	Open		No Hazard.	AVR1:0
R107	Open		No Hazard.	AVR1:0
R108	Open		No Hazard.	AVR1:0
R109	Open		F101 (F102) opened, No hazard.	AVR1:0
R110	Open		F101 (F102) opened, No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
R111	Open	Normal operation.	AVR1:*
R112	Open	Normal operation.	AVR1:*
R113	Open	Normal operation.	AVR1:*
R114	Open	Normal operation.	AVR1:*
R115	Open	Normal operation.	AVR1:*
R116	Open	Normal operation.	AVR1:*
R117	Open	Normal operation.	AVR1:*
R118	Open	Normal operation.	AVR1:*
R119	Open	Normal operation.	AVR1:*
R120	Open	No Hazard.	AVR1:0
R121	Open	No Hazard.	AVR1:0
R122	Open	No Hazard.	AVR1:0
R123	Open	No Hazard.	AVR1:0
R124	Open	No Hazard.	AVR1:0
R125	Open	No Hazard.	AVR1:0
R126	Open	Output voltage decreased. No hazard.	AVR1:decreased
R128	Open	Normal operation.	AVR1:*
R129	Open	No Hazard.	AVR1:0
R130	Open	Normal operation.	AVR1:*
R131	Open	No Hazard.	AVR1:0
R132	Open	No Hazard.	AVR1:0
R133	Open	No Hazard.	AVR1:0
R134	Open	No Hazard.	AVR1:0
R135	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R136	Open	Output voltage decreased. No hazard.	AVR1:decreased
R137	Open	Normal operation.	AVR1:*
R138	Open	Normal operation.	AVR1:*
R139	Open	Normal operation.	AVR1:*
R201	Open	Normal operation.	AVR1:*
R202	Open	No Hazard.	AVR1:0
R203	Open	No Hazard.	AVR1:0
R204	Open	Normal operation.	AVR1:*
R205	Open	Normal operation.	AVR1:*
R206	Open	Normal operation.	AVR1:*
R207	Open	Normal operation.	AVR1:*
R208	Open	No Hazard.	AVR1:0
R209	Open	Output voltage decreased. No hazard.	AVR1:decreased
R211	Open	Normal operation.	AVR1:*
R212	Open	Normal operation.	AVR1:*
R213	Open	No Hazard.	AVR1:0
R214	Open	No Hazard.	AVR1:0
R215	Open	Normal operation.	AVR1:*
R216	Open	Output voltage decreased. No hazard.	AVR1:decreased
R217	Open	No Hazard.	AVR1:0
R218	Open	Normal operation.	AVR1:*
R219	Open	Normal operation.	AVR1:*
R220	Open	Output voltage decreased. No hazard.	AVR1:decreased
R221	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R222	Open	Normal operation.	AVR1:*
R223	Open	Normal operation.	AVR1:*
R224	Open	No Hazard.	AVR1:0
R225	Open	Normal operation.	AVR1:*
R226	Open	No Hazard.	AVR1:0
R227	Open	Normal operation.	AVR1:*
R228	Open	Normal operation.	AVR1:*
R229	Open	Normal operation.	AVR1:*
R230	Open	Normal operation.	AVR1:*
R231	Open	Normal operation.	AVR1:*
R232	Open	Normal operation.	AVR1:*
R233	Open	Normal operation.	AVR1:*
R234	Open	No Hazard.	AVR1:0
R301	Open	No Hazard.	AVR1:0
R302	Open	Normal operation.	AVR1:*
R303	Open	No Hazard.	AVR1:0
R304	Open	No Hazard.	AVR1:0
R305	Open	Normal operation.	AVR1:*
R306	Open	Normal operation.	AVR1:*
R307	Open	Normal operation.	AVR1:*
R308	Open	Normal operation.	AVR1:*
R309	Open	Normal operation.	AVR1:*
R310	Open	Normal operation.	AVR1:*
R311	Open	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
R312	Open		Normal operation.	AVR1:*
R313	Open		Normal operation.	AVR1:*
R501	Open		Normal operation.	AVR1:*
R502	Open		No Hazard.	AVR1:0
R503	Open		No Hazard.	AVR1:0
R504	Open		Normal operation.	AVR1:*
R505	Open		No Hazard.	AVR1:0
R506	Open		No Hazard.	AVR1:0
R507	Open		No Hazard.	AVR1:0
R508	Open		No Hazard.	AVR1:0
R511	Open		See 32 Page.	
R512	Open		No Hazard.	AVR1:0
R513	Open	(only_12)	Normal operation.	AVR1:*
R514	Open		Normal operation.	AVR1:*
R515	Open		Normal operation.	AVR1:*
R516	Open		Normal operation.	AVR1:*
R517	Open		Normal operation.	AVR1:*
R518	Open	(exc._12, 24)	Normal operation.	AVR1:*
R519	Open		Normal operation.	AVR1:*
R520	Open		Normal operation.	AVR1:*
R521	Open	(exc._48, 56)	No Hazard.	AVR1:0
R522	Open		No Hazard.	AVR1:0
R523	Open		No Hazard.	AVR1:0
R524	Open	(only_12)	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
R525	Open	(only_12)	Normal operation.	AVR1:*
R526	Open		Output voltage decreased. No hazard.	AVR1:decreased
R527	Open		See 32 Page.	
R528	Open		No Hazard.	AVR1:0
R529	Open		No Hazard.	AVR1:0
R530	Open		Output voltage decreased. No hazard.	AVR1:decreased
R531	Open		Output voltage decreased. No hazard.	AVR1:decreased
R532	Open		Normal operation.	AVR1:*

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C103	Open		Normal operation.	AVR1:*
C107	Short		Normal operation.	AVR1:*
C108	Short		Normal operation.	AVR1:*
C215	Short		Normal operation.	AVR1:*
D501	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
IC102	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
IC301	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		C	No Hazard.	AVR1:0
	Short	D-S	F101 (F102) opened, No hazard.	AVR1:0
		S-C	No Hazard.	AVR1:0
		C-D	F101 (F102) opened, No hazard.	AVR1:0
L501	Open		No Hazard.	AVR1:0
L502	Open		Normal operation.	AVR1:*
T201	Open	4	No Hazard.	AVR1:0
	Short	6-7	Normal operation.	AVR1:*
		7-8	No Hazard.	AVR1:0
T301	Open	7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
TR101	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	F101 (F102) opened, No hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR101	Short	D-S	F101 (F102) opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	F101 (F102) opened, No hazard.	AVR1:0
TR102	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	F101 (F102) opened, No hazard.	AVR1:0
	Short	D-S	F101 (F102) opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	F101 (F102) opened, No hazard.	AVR1:0
TR201	Open	D	No Hazard.	AVR1:0
		S	F101 (F102) opened, No hazard.	AVR1:0
		G	F101 (F102) opened, No hazard.	AVR1:0
	Short	D-S	F101 (F102) opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	No Hazard.	AVR1:0
TR202	Open	D	F101 (F102) opened, No hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	F101 (F102) opened, No hazard.	AVR1:0
	Short	D-S	F101 (F102) opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	F101 (F102) opened, No hazard.	AVR1:0
TR503	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
ZD501	Short		Normal operation.	AVR1:*
R511	Open		Normal operation.	AVR1:*
R527	Open		No Hazard.	AVR1:0
IC503	Open	4-5	No Hazard.	AVR1:0