

## ABNORMAL TEST RESULT

OF MODEL FETA7000ST-48, 144

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 : 2/31 ~ 31/31)

( Abnormal Test Result: 32/31 ~ 31/31)

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.	AVR1:*
	Short	No Hazard.	AVR1:0
C12	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C13	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C14	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C21	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C22	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C141	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C161	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C162	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C241	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C261	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C262	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C361	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C362	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C401	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C402	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C403	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C404	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C405	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C406	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C407	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C411	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C412	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C413	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
C414	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C421	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C422	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C441	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C442	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C443	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C444	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C461	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C462	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C463	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C464	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C481	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C482	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C491	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C492	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C493	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C494	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C495	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C501	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C502	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C503	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C601	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C602	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C641	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
C651	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
CN1	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:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		1-3	Normal operation.	AVR1:*
		2-4	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		3-5	Normal operation.	AVR1:*
		4-6	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		5-7	Normal operation.	AVR1:*
		6-8	No Hazard.	AVR1:0
		7-8	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
CN1	Short	7-9	Normal operation.	AVR1:*
		8-10	No Hazard.	AVR1:0
		9-10	Output voltage decreased. No hazard.	AVR1:decreased
		9-11	No Hazard.	AVR1:0
		10-12	No Hazard.	AVR1:0
		11-12	Normal operation.	AVR1:*
CN2	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:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		1-3	Normal operation.	AVR1:*
		2-4	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		3-5	Normal operation.	AVR1:*
		4-6	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
CN2	Short	5-6	Normal operation.	AVR1:*
		5-7	Normal operation.	AVR1:*
		6-8	No Hazard.	AVR1:0
		7-8	Normal operation.	AVR1:*
		7-9	Normal operation.	AVR1:*
		8-10	No Hazard.	AVR1:0
		9-10	Output voltage decreased. No hazard.	AVR1:decreased
		9-11	No Hazard.	AVR1:0
		10-12	No Hazard.	AVR1:0
		11-12	Normal operation.	AVR1:*
CN3	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:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		1-3	Normal operation.	AVR1:*
		2-4	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		3-5	Normal operation.	AVR1:*
		4-6	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
CN3	Short	5-6	Normal operation.	AVR1:*
		5-7	Normal operation.	AVR1:*
		6-8	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
CN31	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	No Hazard.	AVR1:0
		10	Output voltage decreased. No hazard.	AVR1:decreased
		11	No Hazard.	AVR1:0
		12	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		1-3	Normal operation.	AVR1:*
		2-4	No Hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		3-5	Normal operation.	AVR1:*
		4-6	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0
		5-7	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
CN31	Short	6-8	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		7-9	Normal operation.	AVR1:*
		8-10	Normal operation.	AVR1:*
		9-10	Output voltage decreased. No hazard.	AVR1:decreased
		9-11	No Hazard.	AVR1:0
		10-12	No Hazard.	AVR1:0
		11-12	No Hazard.	AVR1:0
CN32	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	No Hazard.	AVR1:0
		10	Output voltage decreased. No hazard.	AVR1:decreased
		11	No Hazard.	AVR1:0
		12	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		1-3	Normal operation.	AVR1:*
		2-4	No Hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
CN32	Short	3-5	Normal operation.	AVR1:*
		4-6	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0
		5-7	Normal operation.	AVR1:*
		6-8	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		7-9	Normal operation.	AVR1:*
		8-10	Normal operation.	AVR1:*
		9-10	Output voltage decreased. No hazard.	AVR1:decreased
		9-11	No Hazard.	AVR1:0
		10-12	No Hazard.	AVR1:0
		11-12	No Hazard.	AVR1:0
	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	No Hazard.	AVR1:0
		10	Output voltage decreased. No hazard.	AVR1:decreased
		11	No Hazard.	AVR1:0
		12	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
CN32	Short	1-2	Normal operation.	AVR1:*
		1-3	Normal operation.	AVR1:*
		2-4	No Hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		3-5	Normal operation.	AVR1:*
		4-6	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0
		5-7	Normal operation.	AVR1:*
		6-8	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		7-9	Normal operation.	AVR1:*
		8-10	Normal operation.	AVR1:*
		9-10	Output voltage decreased. No hazard.	AVR1:decreased
		9-11	No Hazard.	AVR1:0
		10-12	No Hazard.	AVR1:0
		11-12	No Hazard.	AVR1:0
CN4	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
CN4	Open	9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
	Short	1-2	No Hazard.	AVR1:0
		1-3	Normal operation.	AVR1:*
		2-4	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		3-5	Normal operation.	AVR1:*
		4-6	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0
		5-7	Normal operation.	AVR1:*
		6-8	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		7-9	Normal operation.	AVR1:*
		8-10	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*
D171	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D271	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D371	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D403	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Normal operation.	AVR1:*
D404	Open		Normal operation.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
D404	Short		No Hazard.	AVR1:0
D405	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased. No hazard.	AVR1:decreased
D421	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
D441	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
D442	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased. No hazard.	AVR1:decreased
D491	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
D492	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
D493	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
IC141	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
IC241	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC241	Short	2-3	No Hazard.	AVR1:0
IC401	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	Normal operation.	AVR1:*
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	Normal operation.	AVR1:*
		18	Normal operation.	AVR1:*
		19	Normal operation.	AVR1:*
		20	Normal operation.	AVR1:*
		21	Normal operation.	AVR1:*
		22	Normal operation.	AVR1:*
		23	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Open	24	Normal operation.	AVR1:*
		25	Normal operation.	AVR1:*
		26	Normal operation.	AVR1:*
		27	Normal operation.	AVR1:*
		28	Normal operation.	AVR1:*
		29	Normal operation.	AVR1:*
		30	Normal operation.	AVR1:*
		31	Normal operation.	AVR1:*
		32	Normal operation.	AVR1:*
		33	Normal operation.	AVR1:*
		34	Normal operation.	AVR1:*
		35	Normal operation.	AVR1:*
		36	Normal operation.	AVR1:*
		37	Normal operation.	AVR1:*
		38	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Short	10-11	Normal operation.	AVR1:*
		11-12	Normal operation.	AVR1:*
		12-13	Normal operation.	AVR1:*
		13-14	Normal operation.	AVR1:*
		14-15	Normal operation.	AVR1:*
		15-16	Normal operation.	AVR1:*
		16-17	Normal operation.	AVR1:*
		17-18	Normal operation.	AVR1:*
		18-19	Normal operation.	AVR1:*
		20-21	Normal operation.	AVR1:*
		21-22	Normal operation.	AVR1:*
		22-23	Normal operation.	AVR1:*
		23-24	Normal operation.	AVR1:*
		24-25	Normal operation.	AVR1:*
		25-26	Output voltage increased. No hazard.	AVR1:increased
		26-27	Normal operation.	AVR1:*
		27-28	Normal operation.	AVR1:*
		28-29	Normal operation.	AVR1:*
		29-30	Normal operation.	AVR1:*
		30-31	Normal operation.	AVR1:*
		31-32	Normal operation.	AVR1:*
		32-33	Normal operation.	AVR1:*
		33-34	Normal operation.	AVR1:*
		34-35	Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
IC401	Short	35-36	Normal operation.	AVR1:*
		36-37	Normal operation.	AVR1:*
		37-38	Normal operation.	AVR1:*
IC411	Open	1	Output voltage increased. No hazard.	AVR1:increased
		2	Output voltage increased. No hazard.	AVR1:increased
		3	Output voltage decreased. No hazard.	AVR1:decreased
		4	Output voltage increased. No hazard.	AVR1:increased
		5	Normal operation.	AVR1:*
	Short	1-2	Output voltage increased. No hazard.	AVR1:increased
		2-3	Output voltage decreased. No hazard.	AVR1:decreased
		3-4	Normal operation.	AVR1:*
		4-5	Output voltage increased. No hazard.	AVR1:increased
IC441	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		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	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		5-6	Normal operation.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC441	Short	6-7	No Hazard.	AVR1:0
		7-8	No Hazard.	AVR1:0
IC442	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		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	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
IC491	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
IC492	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC492	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
IC601	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
L501	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
LED1	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
LED2	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
PC461	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No Hazard.	AVR1:0
PC462	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
PC463	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC481	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC482	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
R141 (Only -144)	Open		No Hazard.	AVR1:0
R142	Open		No Hazard.	AVR1:0
R143	Open		No Hazard.	AVR1:0
R144	Open		No Hazard.	AVR1:0
R145	Open		No Hazard.	AVR1:0
R146	Open		No Hazard.	AVR1:0
R147	Open		Output voltage decreased. No hazard.	AVR1:decreased
R148 (Only -144)	Open		No Hazard.	AVR1:0
R149 (Only -48)	Open		Output voltage decreased. No hazard.	AVR1:decreased
R161	Open		Normal operation.	AVR1:*
R162	Open		Normal operation.	AVR1:*
R171	Open		Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R172	Open	Normal operation.	AVR1:*
R173	Open	Normal operation.	AVR1:*
R174	Open	Normal operation.	AVR1:*
R241 (Only -144)	Open	No Hazard.	AVR1:0
R242	Open	No Hazard.	AVR1:0
R243	Open	No Hazard.	AVR1:0
R244	Open	No Hazard.	AVR1:0
R245	Open	No Hazard.	AVR1:0
R246	Open	No Hazard.	AVR1:0
R247	Open	Output voltage decreased. No hazard.	AVR1:decreased
R248 (Only -144)	Open	No Hazard.	AVR1:0
R249 (Only -48)	Open	Output voltage decreased. No hazard.	AVR1:decreased
R261	Open	Normal operation.	AVR1:*
R262	Open	Normal operation.	AVR1:*
R271	Open	Normal operation.	AVR1:*
R272	Open	Normal operation.	AVR1:*
R273	Open	Normal operation.	AVR1:*
R274	Open	Normal operation.	AVR1:*
R349	Open	No Hazard.	AVR1:0
R361	Open	Normal operation.	AVR1:*
R362	Open	Normal operation.	AVR1:*
R371	Open	Normal operation.	AVR1:*
R372	Open	Normal operation.	AVR1:*
R373	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R374	Open	Normal operation.	AVR1:*
R401	Open	No Hazard.	AVR1:0
R402	Open	No Hazard.	AVR1:0
R403	Open	No Hazard.	AVR1:0
R404	Open	No Hazard.	AVR1:0
R405	Open	No Hazard.	AVR1:0
R406	Open	Output voltage decreased. No hazard.	AVR1:decreased
R407	Open	Output voltage decreased. No hazard.	AVR1:decreased
R408	Open	Output voltage decreased. No hazard.	AVR1:decreased
R410	Open	Output voltage decreased. No hazard.	AVR1:decreased
R411	Open	Output voltage decreased. No hazard.	AVR1:decreased
R412	Open	No Hazard.	AVR1:0
R413	Open	Output voltage increased. No hazard.	AVR1:increased
R414	Open	Output voltage increased. No hazard.	AVR1:increased
R415	Open	Output voltage decreased. No hazard.	AVR1:decreased
R416	Open	Output voltage decreased. No hazard.	AVR1:decreased
R417	Open	Output voltage decreased. No hazard.	AVR1:decreased
R418	Open	Output voltage increased. No hazard.	AVR1:increased
R419	Open	Output voltage increased. No hazard.	AVR1:increased
R420	Open	Normal operation.	AVR1:*
R421	Open	Normal operation.	AVR1:*
R422	Open	Normal operation.	AVR1:*
R423	Open	Output voltage increased. No hazard.	AVR1:increased
R424	Open	Output voltage increased. No hazard.	AVR1:increased

## F M E A

Component	Mode	Comment	Output Voltage (V)
R425	Open	Normal operation.	AVR1:*
R426	Open	Normal operation.	AVR1:*
R427	Open	Normal operation.	AVR1:*
R428 (Only -48)	Open	Normal operation.	AVR1:*
R429 (Only -48)	Open	Normal operation.	AVR1:*
R444	Open	No Hazard.	AVR1:0
R445	Open	No Hazard.	AVR1:0
R446	Open	No Hazard.	AVR1:0
R447	Open	No Hazard.	AVR1:0
R451	Open	Normal operation.	AVR1:*
R452	Open	Normal operation.	AVR1:*
R453	Open	Normal operation.	AVR1:*
R454	Open	Normal operation.	AVR1:*
R455	Open	Normal operation.	AVR1:*
R456	Open	Normal operation.	AVR1:*
R457	Open	Normal operation.	AVR1:*
R461	Open	Normal operation.	AVR1:*
R462	Open	Normal operation.	AVR1:*
R463	Open	Normal operation.	AVR1:*
R464	Open	Normal operation.	AVR1:*
R467	Open	Normal operation.	AVR1:*
R468	Open	Normal operation.	AVR1:*
R469	Open	Normal operation.	AVR1:*
R471	Open	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R472	Open	Normal operation.	AVR1:*
R473	Open	Normal operation.	AVR1:*
R474	Open	Normal operation.	AVR1:*
R475	Open	Normal operation.	AVR1:*
R476	Open	Normal operation.	AVR1:*
R477	Open	Normal operation.	AVR1:*
R478	Open	Normal operation.	AVR1:*
R479	Open	Normal operation.	AVR1:*
R480	Open	Normal operation.	AVR1:*
R481	Open	Normal operation.	AVR1:*
R482	Open	Normal operation.	AVR1:*
R483	Open	Normal operation.	AVR1:*
R484	Open	Normal operation.	AVR1:*
R485	Open	Normal operation.	AVR1:*
R486	Open	Normal operation.	AVR1:*
R487	Open	Normal operation.	AVR1:*
R488	Open	Normal operation.	AVR1:*
R489	Open	Normal operation.	AVR1:*
R490	Open	Normal operation.	AVR1:*
R491	Open	No Hazard.	AVR1:0
R492	Open	No Hazard.	AVR1:0
R493	Open	No Hazard.	AVR1:0
R494	Open	No Hazard.	AVR1:0
R495	Open	No Hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R496	Open	Normal operation.	AVR1:*
R497	Open	Normal operation.	AVR1:*
R498	Open	No Hazard.	AVR1:0
R499	Open	No Hazard.	AVR1:0
R502	Open	Normal operation.	AVR1:*
R503	Open	Normal operation.	AVR1:*
R504	Open	Normal operation.	AVR1:*
R505	Open	Normal operation.	AVR1:*
R506	Open	Normal operation.	AVR1:*
R591 (Only -48)	Open	No Hazard.	AVR1:0
R592 (Only -48)	Open	No Hazard.	AVR1:0
R602	Open	Output voltage increased. No hazard.	AVR1:increased
R603	Open	Normal operation.	AVR1:*
R604	Open	Normal operation.	AVR1:*
R605	Open	Normal operation.	AVR1:*
R606	Open	Output voltage increased. No hazard.	AVR1:increased
R607	Open	Output voltage increased. No hazard.	AVR1:increased
R608	Open	No Hazard.	AVR1:0
R609	Open	No Hazard.	AVR1:0
R610	Open	No Hazard.	AVR1:0
R611	Open	Normal operation.	AVR1:*
R612	Open	Normal operation.	AVR1:*
R615	Open	Output voltage increased. No hazard.	AVR1:increased
R616	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
R617	Open		Normal operation.	AVR1:*
R618	Open		Normal operation.	AVR1:*
R641	Open		Normal operation.	AVR1:*
R642	Open		Normal operation.	AVR1:*
R643	Open		Normal operation.	AVR1:*
R651	Open		No Hazard.	AVR1:0
R652	Open		No Hazard.	AVR1:0
TB1	Open	R	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		T	No Hazard.	AVR1:0
TB2	Open	FG1	Normal operation.	AVR1:*
		FG2	Normal operation.	AVR1:*
TB3	Open	Vout1+	Normal operation.	AVR1:*
		Vout2+	Normal operation.	AVR1:*
TB4	Open	Vout1-	Normal operation.	AVR1:*
		Vout2-	Normal operation.	AVR1:*
TR141	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	IC442 opened, No Hazard.	AVR1:0
TR241	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR241	Open	G	No Hazard.	AVR1:0
	Short	D-S	No Hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0
		G-D	IC442 opened, No Hazard.	AVR1:0
TR401	Open	C	Output voltage increased. No hazard.	AVR1:increased
		E	Output voltage increased. No hazard.	AVR1:increased
		B	Output voltage increased. No hazard.	AVR1:increased
	Short	C-E	Output voltage decreased. No hazard.	AVR1:decreased
		E-B	Output voltage decreased. No hazard.	AVR1:decreased
		B-C	Output voltage decreased. No hazard.	AVR1:decreased
TR465	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR471	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*
	Short	1-1 (1-2)	No Hazard.	AVR1:0
		1-2 (2-3)	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR471	Short	2-2 (4-5)	Normal operation.	AVR1:*
		2-1 (5-6)	Normal operation.	AVR1:*
TR472	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*
	Short	1-1 (1-2)	No Hazard.	AVR1:0
		1-2 (2-3)	No Hazard.	AVR1:0
		2-2 (4-5)	No Hazard.	AVR1:0
		2-1 (5-6)	No Hazard.	AVR1:0
TR473	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR481	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR481	Short	1-1 (1-2)	Normal operation.	AVR1:*
		1-2 (2-3)	Normal operation.	AVR1:*
		2-2 (4-5)	Normal operation.	AVR1:*
		2-1 (5-6)	Normal operation.	AVR1:*
TR482	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*
	Short	1-1 (1-2)	Normal operation.	AVR1:*
		1-2 (2-3)	Normal operation.	AVR1:*
		2-2 (4-5)	Normal operation.	AVR1:*
		2-1 (5-6)	Normal operation.	AVR1:*
TR491	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
VR31	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD401	Open		Normal operation.	AVR1:*



F M E A

Component	Mode	Comment	Output Voltage (V)
ZD401	Short	No Hazard.	AVR1:0
ZD421	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD651	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0