

ABNORMAL TEST RESULT

OF MODEL BRFS150

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 : 2/29 ~ 25/29)
(Abnormal Test Result: 26/29 ~ 29/29)

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)
C100	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C101	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C102	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C103	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C104	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C105	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C106	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C107	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C108	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C109	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C110	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C111	Open	Nomal operation.	AVR1:*
	Short	R101 opende, No hazard	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C120	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C121	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C122	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C123	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C124	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C125	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C126	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C127	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C128	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C129	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C130	Open	Nomal operation.	AVR1:*
	Short	External Fuse opend, No hazard	AVR1:0
C131	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
C132	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C133	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C134	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C135	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C141	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C142	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C143	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C161	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C162	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C163	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C181	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C191	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
C201	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C202	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C203	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C204	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C205	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C206	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C207	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C208	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C209	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C301	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C302	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C303	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
C304	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C305	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C306	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C307	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C308	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C310	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C311	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C312	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C313	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:decreased
C314	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:Increased
C315	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:Increased
C316	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:Increased

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Component	Mode	Comment	Output Voltage (V)
C400	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C401	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:*
C402	Open	No hazard.	AVR1:*
	Short	No hazard.	AVR1:0
C403	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C404	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C405	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C406	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C500	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C501	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:*
C502	Open	No hazard.	AVR1:*
	Short	No hazard.	AVR1:0
C503	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*
C504	Open	Nomal operation.	AVR1:*
	Short	No hazard.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
C506	Open		Nomal operation.	AVR1:*
	Short		No hazard.	AVR1:*
CN1	OPEN		Nomal operation.	AVR1:*
CN2	OPEN		Nomal operation.	AVR1:*
CN3	OPEN		Nomal operation.	AVR1:*
CN4	OPEN		Nomal operation.	AVR1:*
CN5	OPEN		Nomal operation.	AVR1:*
CN6	OPEN		Nomal operation.	AVR1:*
CN7	OPEN		No hazard.	AVR1:*
CN8	OPEN		No hazard.	AVR1:*
CN9	OPEN		No hazard.	AVR1:0
CN10	OPEN		No hazard.	AVR1:*
CN11	OPEN		No hazard.	AVR1:*
CN12	OPEN		No hazard.	AVR1:decreased
CN13	OPEN		No hazard.	AVR1:decreased
CN14	OPEN		No hazard.	AVR1:*
CN15	OPEN		Nomal operation.	AVR1:*
CN16	OPEN		Nomal operation.	AVR1:*
CN17	OPEN		Nomal operation.	AVR1:*
CN18	OPEN		Nomal operation.	AVR1:*
CN19	OPEN		Nomal operation.	AVR1:*
CN20	OPEN		Nomal operation.	AVR1:*
D201	Open	1	Nomal operation.	AVR1:*
		2	No hazard.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
D201	Open	3	No hazard.	AVR1:*
		1-2	No hazard.	AVR1:*
	Short	2-3	No hazard.	AVR1:*
		1-3	Nomal operation.	AVR1:*
IC101	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	Nomal operation.	AVR1:*
		4	Nomal operation.	AVR1:*
		5	Nomal operation.	AVR1:*
		6	No hazard.	AVR1:*
		7	No hazard.	AVR1:0
		8	Nomal operation.	AVR1:*
	Short	1-2	No hazard.	AVR1:*
		2-3	Nomal operation.	AVR1:*
		3-4	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:*
		7-8	No hazard.	AVR1:0
IC102	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

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Component	Mode		Comment	Output Voltage (V)
IC102	Open	7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	Nomal operation.	AVR1:*
		2-3	No hazard.	AVR1:0
		3-4	Nomal operation.	AVR1:*
		4-5	No hazard.	AVR1:0
		5-6	Nomal operation.	AVR1:*
		6-7	Nomal operation.	AVR1:*
		7-8	Nomal operation.	AVR1:*
IC141	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:*
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:*
		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
IC161	Open	1	No hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC161	Open	2	No hazard.	AVR1:0
		3	No hazard.	AVR1:*
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:*
		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
IC301	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:*
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:*
		7	Nomal operation.	AVR1:*
		8	No hazard.	AVR1:Increased
		9	No hazard.	AVR1:0
		10	No hazard.	AVR1:0
		11	Nomal operation.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
IC301	Open	12	Nomal operation.	AVR1:*
		13	Nomal operation.	AVR1:*
		14	Nomal operation.	AVR1:*
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
		17	No hazard.	AVR1:0
		18	No hazard.	AVR1:0
		19	No hazard.	AVR1:0
		20	Nomal operation.	AVR1:*
		21	Nomal operation.	AVR1:*
		22	No hazard.	AVR1:*
		23	Nomal operation.	AVR1:*
		24	Nomal operation.	AVR1:*
		25	No hazard.	AVR1:0
		26	No hazard.	AVR1:0
		27	No hazard.	AVR1:0
		28	No hazard.	AVR1:0
		29	No hazard.	AVR1:0
		30	Nomal operation.	AVR1:*
		31	No hazard.	AVR1:Increased
		32	No hazard.	AVR1:Increased
		33	No hazard.	AVR1:Increased
		34	Nomal operation.	AVR1:*
		35	No hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC301	Open	36	No hazard.	AVR1:0
		37	No hazard.	AVR1:0
		38	No hazard.	AVR1:0
		39	No hazard.	AVR1:*
		40	Nomal 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
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:*
		7-8	No hazard.	AVR1:Increased
		8-9	No hazard.	AVR1:Increased
		9-10	No hazard.	AVR1:0
		10-11	Nomal operation.	AVR1:*
		11-12	Nomal operation.	AVR1:*
		12-13	Nomal operation.	AVR1:*
		13-14	Nomal operation.	AVR1:*
		14-15	Nomal operation.	AVR1:*
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	No hazard.	AVR1:0
		18-19	No hazard.	AVR1:0
		19-20	Nomal operation.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
IC301	Short	20-21	Nomal operation.	AVR1:*
		21-22	Nomal operation.	AVR1:0
		22-23	Nomal operation.	AVR1:*
		23-24	Nomal operation.	AVR1:*
		24-25	Nomal operation.	AVR1:*
		25-26	No hazard.	AVR1:0
		26-27	No hazard.	AVR1:0
		27-28	No hazard.	AVR1:0
		28-29	No hazard.	AVR1:0
		29-30	Nomal operation.	AVR1:*
		30-31	Nomal operation.	AVR1:*
		31-32	No hazard.	AVR1:decreased
		32-33	No hazard.	AVR1:decreased
		33-34	Nomal operation.	AVR1:*
		34-35	Nomal operation.	AVR1:*
		35-36	No hazard.	AVR1:*
		36-37	No hazard.	AVR1:*
		37-38	No hazard.	AVR1:decreased
		38-39	No hazard.	AVR1:decreased
		39-40	No hazard.	AVR1:0
IC302	Open	1	No hazard.	AVR1:Increased
		2	No hazard.	AVR1:decreased or increased
		3	No hazard.	AVR1:decreased or increased
		4	No hazard.	AVR1:Increased

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Component	Mode		Comment	Output Voltage (V)
IC302	Open	5	No hazard.	AVR1:decreased or increased
		6	No hazard.	AVR1:decreased or increased
		7	No hazard.	AVR1:Increased
		8	No hazard.	AVR1:Increased
	Short	1-2	No hazard.	AVR1:Increased
		2-3	No hazard.	AVR1:Increased
		3-4	No hazard.	AVR1:Increased
		4-5	No hazard.	AVR1:Increased
		5-6	No hazard.	AVR1:Increased
		6-7	No hazard.	AVR1:Increased
		7-8	No hazard.	AVR1:decreased
IC401	Open	1	No hazard.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:*
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:*
		8	No hazard.	AVR1:*
	Short	1-2	No hazard.	AVR1:*
		2-3	No hazard.	AVR1:*
		3-4	No hazard.	AVR1:*
		5-6	No hazard.	AVR1:*
		6-7	No hazard.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
IC401	Short	7-8	No hazard.	AVR1:0
L101	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
L141	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:Increased
L151	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:Increased
R101	Open		No hazard.	AVR1:0
R102	Open		Nomal operation.	AVR1:*
R104	Open		No hazard.	AVR1:0
R105	Open		Nomal operation.	AVR1:*
R140	Open		See 26 Page.	
R141	Open		See 26 Page.	
R142	Open		See 26 Page.	
R143	Open		See 26 Page.	
R144	Open		See 26 Page.	
R145	Open		See 26 Page.	
R146	Open		Nomal operation.	AVR1:*
R147	Open		Nomal operation.	AVR1:*
R160	Open		See 26 Page.	
R161	Open		See 26 Page.	
R162	Open		See 26 Page.	
R163	Open		See 26 Page.	
R164	Open		See 26 Page.	

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Component	Mode	Comment	Output Voltage (V)
R165	Open	See 26 Page.	
R166	Open	Nomal operation.	AVR1:*
R167	Open	Nomal operation.	AVR1:*
R181	Open	Nomal operation.	AVR1:*
R201	Open	No hazard.	AVR1:0
R202	Open	No hazard.	AVR1:*
R203	Open	No hazard.	AVR1:*
R204	Open	No hazard.	AVR1:*
R205	Open	Nomal operation.	AVR1:*
R206	Open	No hazard.	AVR1:0
R207	Open	No hazard.	AVR1:0
R208	Open	No hazard.	AVR1:0
R209	Open	No hazard.	AVR1:*
R210	Open	No hazard.	AVR1:0
R211	Open	No hazard.	AVR1:0
R212	Open	No hazard.	AVR1:*
R213	Open	No hazard.	AVR1:0
R214	Open	No hazard.	AVR1:*
R215	Open	No hazard.	AVR1:0
R216	Open	No hazard.	AVR1:0
R217	Open	No hazard.	AVR1:0
R218	Open	No hazard.	AVR1:0
R219	Open	No hazard.	AVR1:0
R220	Open	Nomal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R221	Open	Nomal operation.	AVR1:*
R222	Open	Nomal operation.	AVR1:*
R224	Open	No hazard.	AVR1:0
R225	Open	No hazard.	AVR1:*
R301	Open	No hazard.	AVR1:Increased
R302	Open	No hazard.	AVR1:Increased
R303	Open	No hazard.	AVR1:decreased
R304	Open	No hazard.	AVR1:decreased
R306	Open	No hazard.	AVR1:Increased
R307	Open	No hazard.	AVR1:decreased
R308	Open	No hazard.	AVR1:Increased
R309	Open	No hazard.	AVR1:Increased
R310	Open	No hazard.	AVR1:Increased
R311	Open	No hazard.	AVR1:decreased
R313	Open	No hazard.	AVR1:Increased
R314	Open	No hazard.	AVR1:decreased
R315	Open	No hazard.	AVR1:Increased
R316	Open	No hazard.	AVR1:Increased
R317	Open	No hazard.	AVR1:Increased
R318	Open	No hazard.	AVR1:Increased
R319	Open	No hazard.	AVR1:decreased
R320	Open	No hazard.	AVR1:0
R321	Open	No hazard.	AVR1:0
R322	Open	Nomal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R331	Open	No hazard.	AVR1:0
R332	Open	No hazard.	AVR1:0
R333	Open	No hazard.	AVR1:0
R334	Open	No hazard.	AVR1:Increased
R400	Open	Nomal operation.	AVR1:*
R401	Open	No hazard.	AVR1:*
R402	Open	No hazard.	AVR1:*
R403	Open	No hazard.	AVR1:*
R404	Open	No hazard.	AVR1:*
R405	Open	No hazard.	AVR1:*
R406	Open	No hazard.	AVR1:0
R407	Open	No hazard.	AVR1:*
R408	Open	No hazard.	AVR1:*
R409	Open	No hazard.	AVR1:*
R410	Open	Nomal operation.	AVR1:*
R411	Open	No hazard.	AVR1:0
R412	Open	No hazard.	AVR1:*
R413	Open	No hazard.	AVR1:*
R500	Open	Nomal operation.	AVR1:*
R501	Open	No hazard.	AVR1:*
R502	Open	No hazard.	AVR1:*
R503	Open	No hazard.	AVR1:*
R504	Open	No hazard.	AVR1:*
R505	Open	No hazard.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
R506	Open		No hazard.	AVR1:0
R507	Open		No hazard.	AVR1:*
R508	Open		No hazard.	AVR1:*
R509	Open		No hazard.	AVR1:*
R510	Open		Nomal operation.	AVR1:*
R511	Open		No hazard.	AVR1:0
R512	Open		No hazard.	AVR1:*
R513	Open		No hazard.	AVR1:*
TH221	Open		No hazard.	AVR1:*
	Short		No hazard.	AVR1:0
TH231	Open		No hazard.	AVR1:*
	Short		No hazard.	AVR1:0
TR141	Open	G(Hi)	See 26 Page.	
		D(Hi)	See 26 Page.	
		S(Hi), D(Lo)	See 26 Page.	
		G(Lo)	See 26 Page.	
		S(Lo)	See 26 Page.	
	Short	D(Hi)-S(Hi)	See 26 Page.	
		D(Hi)-S(Lo)	See 26 Page.	
		S(Hi)-G(Hi)	See 26 Page.	
		G(Hi)-D(Hi)	See 26 Page.	
		D(Lo)-S(Lo)	See 26 Page.	
		S(Lo)-G(Lo)	See 26 Page.	
		G(Lo)-D(Lo)	See 26 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR142	Open	G(Hi)	See 27 Page.	
		D(Hi)	See 27 Page.	
		S(Hi), D(Lo)	See 27 Page.	
		G(Lo)	See 27 Page.	
		S(Lo)	See 27 Page.	
	Short	D(Hi)-S(Hi)	See 27 Page.	
		D(Hi)-S(Lo)	See 27 Page.	
		S(Hi)-G(Hi)	See 27 Page.	
		G(Hi)-D(Hi)	See 27 Page.	
		D(Lo)-S(Lo)	See 27 Page.	
		S(Lo)-G(Lo)	See 27 Page.	
		G(Lo)-D(Lo)	See 27 Page.	
TR143	Open	G(Hi)	See 27 Page.	
		D(Hi)	See 27 Page.	
		S(Hi), D(Lo)	See 27 Page.	
		G(Lo)	See 27 Page.	
		S(Lo)	See 27 Page.	
	Short	D(Hi)-S(Hi)	See 27 Page.	
		D(Hi)-S(Lo)	See 27 Page.	
		S(Hi)-G(Hi)	See 27 Page.	
		G(Hi)-D(Hi)	See 27 Page.	
		D(Lo)-S(Lo)	See 27 Page.	
		S(Lo)-G(Lo)	See 27 Page.	
		G(Lo)-D(Lo)	See 27 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR161	Open	G(Hi)	See 28 Page.	
		D(Hi)	See 28 Page.	
		S(Hi), D(Lo)	See 28 Page.	
		G(Lo)	See 28 Page.	
		S(Lo)	See 28 Page.	
	Short	D(Hi)-S(Hi)	See 28 Page.	
		D(Hi)-S(Lo)	See 28 Page.	
		S(Hi)-G(Hi)	See 28 Page.	
		G(Hi)-D(Hi)	See 28 Page.	
		D(Lo)-S(Lo)	See 28 Page.	
		S(Lo)-G(Lo)	See 28 Page.	
		G(Lo)-D(Lo)	See 28 Page.	
TR162	Open	G(Hi)	See 28 Page.	
		D(Hi)	See 28 Page.	
		S(Hi), D(Lo)	See 28 Page.	
		G(Lo)	See 28 Page.	
		S(Lo)	See 28 Page.	
	Short	D(Hi)-S(Hi)	See 28 Page.	
		D(Hi)-S(Lo)	See 28 Page.	
		S(Hi)-G(Hi)	See 28 Page.	
		G(Hi)-D(Hi)	See 28 Page.	
		D(Lo)-S(Lo)	See 28 Page.	
		S(Lo)-G(Lo)	See 28 Page.	
		G(Lo)-D(Lo)	See 28 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR163	Open	G(Hi)	See 29 Page.	
		D(Hi)	See 29 Page.	
		S(Hi), D(Lo)	See 29 Page.	
		G(Lo)	See 29 Page.	
		S(Lo)	See 29 Page.	
	Short	D(Hi)-S(Hi)	See 29 Page.	
		D(Hi)-S(Lo)	See 29 Page.	
		S(Hi)-G(Hi)	See 29 Page.	
		G(Hi)-D(Hi)	See 29 Page.	
		D(Lo)-S(Lo)	See 29 Page.	
		S(Lo)-G(Lo)	See 29 Page.	
		G(Lo)-D(Lo)	See 29 Page.	
TR201	Open	D	No hazard.	AVR1:*
		S	No hazard.	AVR1:*
		G	No hazard.	AVR1:*
	Short	D-S	No hazard.	AVR1:*
		S-G	No hazard.	AVR1:*
		G-D	No hazard.	AVR1:*
TR202	Open	C	No hazard.	AVR1:*
		E	No hazard.	AVR1:*
		B	No hazard.	AVR1:*
	Short	C-E	No hazard.	AVR1:*
		E-B	No hazard.	AVR1:*
		B-C	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR203	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:*
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:*
TR501	Open	D(6)	No hazard.	AVR1:*
		S(1)	No hazard.	AVR1:*
		G(2)	No hazard.	AVR1:*
		D(3)	No hazard.	AVR1:*
		S(4)	No hazard.	AVR1:*
		G(5)	No hazard.	AVR1:*
	Short	S(1)-G(2)	No hazard.	AVR1:*
		G(2)-D(3)	No hazard.	AVR1:*
		S(4)-G(5)	No hazard.	AVR1:*
		G(5)-D(6)	No hazard.	AVR1:*
ZD201	Open		No hazard.	AVR1:*
	Short		No hazard.	AVR1:0
ZD301	Open		No hazard.	AVR1:*
	Short		No hazard.	AVR1:Increased
ZD603	Open	1	Nomal operation.	AVR1:*
		2	Nomal operation.	AVR1:*
		3	Nomal operation.	AVR1:*
	Short	1-2	Nomal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
ZD603	Short	2-3	Nomal operation.	AVR1:*
		1-3	Nomal operation.	AVR1:*

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
R140	Open		No hazard.	AVR1:*
R141	Open		No hazard.	AVR1:*
R142	Open		No hazard.	AVR1:*
R143	Open		No hazard.	AVR1:*
R144	Open		No hazard.	AVR1:*
R145	Open		No hazard.	AVR1:*
R160	Open		No hazard.	AVR1:*
R161	Open		No hazard.	AVR1:*
R162	Open		No hazard.	AVR1:*
R163	Open		No hazard.	AVR1:*
R164	Open		No hazard.	AVR1:*
R165	Open		No hazard.	AVR1:*
TR141	Open	G(Hi)	No hazard.	AVR1:*
		D(Hi)	No hazard.	AVR1:*
		S(Hi), D(Lo)	No hazard.	AVR1:*
		G(Lo)	No hazard.	AVR1:*
		S(Lo)	No hazard.	AVR1:*
	Short	D(Hi)-S(Hi)	Output voltage increased. No hazard.	AVR1:Increased
		D(Hi)-S(Lo)	No hazard.	AVR1:0
		S(Hi)-G(Hi)	No hazard.	AVR1:0
		G(Hi)-D(Hi)	No hazard.	AVR1:0
		D(Lo)-S(Lo)	No hazard.	AVR1:0
		S(Lo)-G(Lo)	No hazard.	AVR1:*
		G(Lo)-D(Lo)	No hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR142	Open	G(Hi)	No hazard.	AVR1:*
		D(Hi)	No hazard.	AVR1:*
		S(Hi), D(Lo)	No hazard.	AVR1:*
		G(Lo)	No hazard.	AVR1:*
		S(Lo)	No hazard.	AVR1:*
	Short	D(Hi)-S(Hi)	Output voltage increased. No hazard.	AVR1:Increased
		D(Hi)-S(Lo)	No hazard.	AVR1:0
		S(Hi)-G(Hi)	No hazard.	AVR1:0
		G(Hi)-D(Hi)	No hazard.	AVR1:0
		D(Lo)-S(Lo)	No hazard.	AVR1:0
		S(Lo)-G(Lo)	No hazard.	AVR1:*
		G(Lo)-D(Lo)	No hazard.	AVR1:0
TR143	Open	G(Hi)	No hazard.	AVR1:*
		D(Hi)	No hazard.	AVR1:*
		S(Hi), D(Lo)	No hazard.	AVR1:*
		G(Lo)	No hazard.	AVR1:*
		S(Lo)	No hazard.	AVR1:*
	Short	D(Hi)-S(Hi)	Output voltage increased. No hazard.	AVR1:Increased
		D(Hi)-S(Lo)	No hazard.	AVR1:0
		S(Hi)-G(Hi)	No hazard.	AVR1:0
		G(Hi)-D(Hi)	No hazard.	AVR1:0
		D(Lo)-S(Lo)	No hazard.	AVR1:0
		S(Lo)-G(Lo)	No hazard.	AVR1:*
		G(Lo)-D(Lo)	No hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR161	Open	G(Hi)	No hazard.	AVR1:*
		D(Hi)	No hazard.	AVR1:*
		S(Hi), D(Lo)	No hazard.	AVR1:*
		G(Lo)	No hazard.	AVR1:*
		S(Lo)	No hazard.	AVR1:*
	Short	D(Hi)-S(Hi)	Output voltage increased. No hazard.	AVR1:Increased
		D(Hi)-S(Lo)	No hazard.	AVR1:0
		S(Hi)-G(Hi)	No hazard.	AVR1:0
		G(Hi)-D(Hi)	No hazard.	AVR1:0
		D(Lo)-S(Lo)	No hazard.	AVR1:0
		S(Lo)-G(Lo)	No hazard.	AVR1:0
		G(Lo)-D(Lo)	No hazard.	AVR1:0
TR162	Open	G(Hi)	No hazard.	AVR1:*
		D(Hi)	No hazard.	AVR1:*
		S(Hi), D(Lo)	No hazard.	AVR1:*
		G(Lo)	No hazard.	AVR1:*
		S(Lo)	No hazard.	AVR1:*
	Short	D(Hi)-S(Hi)	Output voltage increased. No hazard.	AVR1:Increased
		D(Hi)-S(Lo)	No hazard.	AVR1:0
		S(Hi)-G(Hi)	No hazard.	AVR1:0
		G(Hi)-D(Hi)	No hazard.	AVR1:0
		D(Lo)-S(Lo)	No hazard.	AVR1:0
		S(Lo)-G(Lo)	No hazard.	AVR1:0
		G(Lo)-D(Lo)	No hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR163	Open	G (Hi)	No hazard.	AVR1 : *
		D (Hi)	No hazard.	AVR1 : *
		S (Hi) , D (Lo)	No hazard.	AVR1 : *
		G (Lo)	No hazard.	AVR1 : *
		S (Lo)	No hazard.	AVR1 : *
	Short	D (Hi) - S (Hi)	Output voltage increased. No hazard.	AVR1 : Increased
		D (Hi) - S (Lo)	No hazard.	AVR1 : 0
		S (Hi) - G (Hi)	No hazard.	AVR1 : 0
		G (Hi) - D (Hi)	No hazard.	AVR1 : 0
		D (Lo) - S (Lo)	No hazard.	AVR1 : 0
		S (Lo) - G (Lo)	No hazard.	AVR1 : 0
		G (Lo) - D (Lo)	No hazard.	AVR1 : 0