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ABNORMAL TEST RESULT

OF MODEL DHS250B03, 05, 07

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   :   2/35 ～ 32/35)
      (Abnormal Test Result: 33/35 ～ 35/35)

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.

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<u>F　M　E　A</u>

Component	Mode	Comment	Output Voltage (V)
C11	Short	External Fuse opened, No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C12	Short	External Fuse opened, No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C21	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C22	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C23	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C24	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C31	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C32	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C33	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C34	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C51	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C55	Open	See　33 Page.	
	Short	Normal operation. (only 7.5V)	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
C56	Open	See 33 Page.	
	Short	Normal operation.	AVR1:*
C61	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C62	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C81	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C82	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C83	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C84	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C85	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C101	Short	External Fuse opened, No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C102	Short	External Fuse opened, No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C103	Short	External Fuse opened, No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C104	Short	External Fuse opened, No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
C105	Short	External Fuse opened, No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C111	Open	See 33 Page.	
	Short	See 33 Page.	
C112	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C113	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C114	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C115	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C131	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C132	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C151	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C152	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C181	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
C182	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]

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Component	Mode	Comment	Output Voltage (V)
C201	Short	See 33 Page.	
	Open	Normal operation.	AVR1:*
C221	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C222	Short	See 33 Page.	
	Open	Normal operation.	AVR1:*
C231	Short	Normal operation.	AVR1:*
	Open	Normal operation.	AVR1:*
C251	Short	Normal operation.	AVR1:*
	Open	Normal operation.	AVR1:*
C261	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C271	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C301	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C302	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C303	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C304	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C305	Short	Normal operation.	AVR1:*
	Open	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
C331	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0[V]
C332	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C333	Short	See 33 Page.	
	Open	Normal operation.	AVR1:*
C351	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C352	Short	Output .voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C501	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	See 33 Page.	
C502	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C503	Open		AVR1:*
	Short	Normal operation.	AVR1:*
C504	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C521	Open	See 33 Page.	
	Short	See 33 Page.	
C522	Short	See 33 Page.	
	Open	Normal operation.	AVR1:*
C531	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased

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Component	Mode	Comment	Output Voltage (V)
C532	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C541	Short	See 33 Page.	
	Open	Normal operation.	AVR1:*
C551	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C552	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C553	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C562	Short	See 33 Page.	
	Open	Normal operation.	AVR1:*
C563	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
C564	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C565	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C566	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Output voltage decreased. No hazard.	AVR1:decreased
C574	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C575	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
C576	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C577	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C581	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0[V]
C582	Short	Normal operation.	AVR1:*
	Open	Normal operation.	AVR1:*
C601	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C602	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C603	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
C604	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
D11	Short	Normal operation.	AVR1:*
	Open	Normal operation.	AVR1:*
D21	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D22	Short	Normal operation.	AVR1:*
	Open	Normal operation.	AVR1:*
D23	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
D24	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D31	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D32	Short	Normal operation.	AVR1:*
	Open	Normal operation.	AVR1:*
D33	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D34	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D51	Short	See 33 Page.	
	Open	Normal operation.	AVR1:*
D52	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D111	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
D112	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
D113	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]
D151	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
D152	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
D153	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
D154	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D181	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
D201	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D202	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D331	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
D333	Short	No hazard.	AVR1:0[V]
	Open	Normal operation.	AVR1:*
D501	Short	Output voltage decreased. No hazard.	AVR1:decreased
	Open	Normal operation.	AVR1:*
D502	Short	Normal operation.	AVR1:*
	Open	Normal operation.	AVR1:*
D521	Open	See 33 Page.	
	Short	See 33 Page.	
D522	Open	Normal operation.	AVR1:*
	Short	See 33 Page.	
D531	Open	No hazard.	AVR1:0[V]
	Short	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
D532	Short		No hazard.	AVR1:0[V]
	Open		Normal operation.	AVR1:*
D561	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased. No hazard.	AVR1:decreased
D562	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased. No hazard.	AVR1:decreased
D563	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased. No hazard.	AVR1:decreased
IC201	Open	15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
	Short	6-7	No hazard.	AVR1:0[V]
	Open	12	Normal operation.	AVR1:*
		17	Normal operation.	AVR1:*
		14	Normal operation.	AVR1:*
		11	Output voltage decreased. No hazard.	AVR1:decreased
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
IC201	Short	1-2	Normal operation.	AVR1:*
		11-12	Output voltage decreased. No hazard.	AVR1:decreased
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		12-13	Normal operation.	AVR1:*
		13-14	Normal operation.	AVR1:*
		18-19	Normal operation.	AVR1:*
		19-20	Normal operation.	AVR1:*
	Open	19	No hazard.	AVR1:0[V]
	Short	9-10	No hazard.	AVR1:0[V]
	Open	18	No hazard.	AVR1:0[V]
		1	No hazard.	AVR1:0[V]
		7	No hazard.	AVR1:0[V]
		20	No hazard.	AVR1:0[V]
	Short	14-15	No hazard.	AVR1:0[V]
		15-16	No hazard.	AVR1:0[V]
		16-17	No hazard.	AVR1:0[V]
		17-18	No hazard.	AVR1:0[V]
IC202	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0[V]

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参考資料

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Component	Mode		Comment	Output Voltage (V)
IC202	Open	3	No hazard.	AVR1:0[V]
		4	No hazard.	AVR1:0[V]
		5	No hazard.	AVR1:0[V]
	Short	1-2	No hazard.	AVR1:0[V]
		2-3	No hazard.	AVR1:0[V]
		3-4	No hazard.	AVR1:0[V]
		4-5	No hazard.	AVR1:0[V]
IC221	Open	3	See 33 Page.	
		4	See 33 Page.	
		5	See 33 Page.	
		1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
IC331	Short	2-3	No hazard.	AVR1:0[V]
	Open	5	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
	Short	4-5	Normal operation.	AVR1:*
	Open	1	No hazard.	AVR1:0[V]
		2	No hazard.	AVR1:0[V]
		3	No hazard.	AVR1:0[V]
		4	No hazard.	AVR1:0[V]
		6	No hazard.	AVR1:0[V]
		8	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
IC331	Short	1-2	No hazard.	AVR1:0[V]
		3-4	No hazard.	AVR1:0[V]
		5-6	No hazard.	AVR1:0[V]
		6-7	No hazard.	AVR1:0[V]
		7-8	No hazard.	AVR1:0[V]
IC332	Short	4-5	See 33 Page.	
		1-2	No hazard.	AVR1:0[V]
	Open	1	No hazard.	AVR1:0[V]
		2	No hazard.	AVR1:0[V]
		3	No hazard.	AVR1:0[V]
		4	No hazard.	AVR1:0[V]
		5	No hazard.	AVR1:0[V]
	Short	2-3	No hazard.	AVR1:0[V]
		3-4	No hazard.	AVR1:0[V]
IC551	Open	A	No hazard.	AVR1:0[V]
		K	No hazard.	AVR1:0[V]
		R	No hazard.	AVR1:0[V]
	Short	K-R	Normal operation.	AVR1:*
		A-K	Output voltage decreased. No hazard.	AVR1:decreased
		R-A	Output voltage decreased. No hazard.	AVR1:decreased
IC561	Open	1	No hazard.	AVR1:0[V]
		2	No hazard.	AVR1:0[V]
		4	No hazard.	AVR1:0[V]
		5	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
IC561	Short	1-2	No hazard.	AVR1:0[V]
		4-5	No hazard.	AVR1:0[V]
	Open	3	Output voltage decreased. No hazard.	AVR1:decreased
	Short	3-4	Output voltage decreased. No hazard.	AVR1:decreased
IC581	Open	3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	4-5	Normal operation.	AVR1:*
	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		3-4	No hazard.	AVR1:0[V]
L51	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
L101	Short		Normal operation.	AVR1:*
	Open		No hazard.	AVR1:0[V]
PC251	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0[V]
PC351	Open	A, K	No hazard.	AVR1:0[V]
		C, E	No hazard.	AVR1:0[V]
	Short	A-K	No hazard.	AVR1:0[V]
		C-E	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
T11	Short	1-2	External Fuse opened, No hazard.	AVR1:0[V]
	Open	3	See 33 Page.	
		4	See 33 Page.	
		5	See 33 Page.	
		6	See 34 Page.	
	Short	3-4	See 34 Page.	
		5-6	Output voltage decreased. No hazard.	AVR1:decreased
	Open	1	No hazard.	AVR1:0[V]
		2	No hazard.	AVR1:0[V]
T101	Short	1-3	No hazard.	AVR1:0[V]
	Open	1	No hazard.	AVR1:0[V]
		3	No hazard.	AVR1:0[V]
		9	No hazard.	AVR1:0[V]
		10	No hazard.	AVR1:0[V]
	Short	9-10	No hazard.	AVR1:0[V]
T151	Short	1-2	No hazard.	AVR1:0[V]
		4-5	No hazard.	AVR1:0[V]
		6-7	No hazard.	AVR1:0[V]
		9-10	No hazard.	AVR1:0[V]
	Open	1, 2	Normal operation.	AVR1:*
		4, 5	No hazard.	AVR1:0[V]
		6, 7	No hazard.	AVR1:0[V]
		9, 10	No hazard.	AVR1:0[V]
T181	Open	3	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
T181	Open	4	No hazard.	AVR1:0[V]
		5	No hazard.	AVR1:0[V]
		6	No hazard.	AVR1:0[V]
	Short	3-4	No hazard.	AVR1:0[V]
		5-6	No hazard.	AVR1:0[V]
TH11	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0[V]
TR21	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
	Short	S-G	No hazard.	AVR1:0[V]
	Open	G	See 34 Page.	
	Short	D-S	See 34 Page.	
		G-D	See 34 Page.	
TR22	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	No hazard.	AVR1:0[V]
TR31	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
	Short	S-G	No hazard.	AVR1:0[V]
	Open	G	See 34 Page.	
	Short	D-S	See 34 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR31	Short	G-D	See 34 Page.	
TR32	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	No hazard.	AVR1:0[V]
TR51	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		S-G	See 34 Page.	
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR52	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		S-G	See 34 Page.	
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR61	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		S-G	Output voltage decreased. No hazard.	AVR1:decreased

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Component	Mode		Comment	Output Voltage (V)
TR61	Short	G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR62	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		S-G	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR63	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		S-G	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR111	Open	G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
	Short	S-G	No hazard.	AVR1:0[V]
TR112	Open	C	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0[V]
	Open	E	Normal operation.	AVR1:*
	Short	B-C	No hazard.	AVR1:0[V]
	Open	B	Normal operation.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
TR112	Short	E-B	Normal operation.	AVR1:*
TR113	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:*
TR151	Short	D-S	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	S-G	No hazard.	AVR1:0[V]
TR152	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	S-G	Normal operation.	AVR1:*
		D-S	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR181	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
TR181	Short	G-D	No hazard.	AVR1:0[V]
TR182	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	D-S	No hazard.	AVR1:0[V]
		S-G	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR201	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	S-G	Normal operation.	AVR1:*
		D-S	No hazard.	AVR1:0[V]
		G-D	No hazard.	AVR1:0[V]
TR221	Short	C-E	See 34 Page.	
		B-C	See 34 Page.	
	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	E-B	No hazard.	AVR1:0[V]
TR231	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	E-B	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
TR231	Short	B-C	No hazard.	AVR1:0[V]
TR301	Short	C-E	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	E-B	No hazard.	AVR1:0[V]
TR302	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	E-B	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0[V]
		B-C	No hazard.	AVR1:0[V]
TR303	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	E-B	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0[V]
		B-C	No hazard.	AVR1:0[V]
TR331	Open	D	No hazard.	AVR1:0[V]
		S	No hazard.	AVR1:0[V]
		G	No hazard.	AVR1:0[V]
	Short	S-G	No hazard.	AVR1:0[V]
		D-S	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
TR331	Short	G-D	No hazard.	AVR1:0[V]
TR332	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	C-E	No hazard.	AVR1:0[V]
		B-C	No hazard.	AVR1:0[V]
		E-B	No hazard.	AVR1:0[V]
TR333	Short	C-E	No hazard.	AVR1:0[V]
		B-C	No hazard.	AVR1:0[V]
	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	E-B	No hazard.	AVR1:0[V]
TR501	Open	C	Output voltage decreased. No hazard.	AVR1:decreased
		E	Output voltage decreased. No hazard.	AVR1:decreased
		B	See 34 Page.	
	Short	C-E	See 34 Page.	
		E-B	Output voltage decreased. No hazard.	AVR1:decreased
		B-C	See 34 Page.	
TR502	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	E-B	Normal operation.	AVR1:*
		C-E	See 34 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR502	Short	B-C	See 34 Page.	
TR503	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	S-G	Normal operation.	AVR1:*
		D-S	See 34 Page.	
		G-D	See 34 Page.	
TR504	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	S-G	Normal operation.	AVR1:*
		D-S	See 34 Page.	
		G-D	See 34 Page.	
TR505	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	S-G	Normal operation.	AVR1:*
		D-S	See 34 Page.	
		G-D	See 34 Page.	
TR521	Short	D-S	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
	Open	D	See 34 Page.	
		S	See 35 Page.	
		G	See 35 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR521	Short	S-G	See 35 Page.	
TR522	Open	D	Normal operation.	AVR1:＊
		S	Normal operation.	AVR1:＊
		G	Normal operation.	AVR1:＊
	Short	S-G	Normal operation.	AVR1:＊
		D-S	See 35 Page.	
		G-D	See 35 Page.	
TR541	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	C-E	No hazard.	AVR1:0[V]
		E-B	No hazard.	AVR1:0[V]
		B-C	See 35 Page.	
TR561	Open	C	No hazard.	AVR1:0[V]
		E	No hazard.	AVR1:0[V]
		B	No hazard.	AVR1:0[V]
	Short	E-B	No hazard.	AVR1:0[V]
		C-E	Output voltage decreased. No hazard.	AVR1:decreased
		B-C	Output voltage decreased. No hazard.	AVR1:decreased
TR581	Open	C	Normal operation.	AVR1:＊
		E	Normal operation.	AVR1:＊
		B	Normal operation.	AVR1:＊
	Short	E-B	Normal operation.	AVR1:＊
		C-E	No hazard.	AVR1:0[V]

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Component	Mode		Comment	Output Voltage (V)
TR581	Short	B-C	No hazard.	AVR1:0[V]
ZD111	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0[V]
ZD112	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0[V]
ZD541	Short		No hazard.	AVR1:0[V]
	Open		See 35 Page.	
R11	Open		Output voltage decreased. No hazard.	AVR1:decreased
R21	Open		Normal operation.	AVR1:*
R22	Open		Normal operation.	AVR1:*
R23	Open		Normal operation.	AVR1:*
R24	Open		See 35 Page.	
R25	Open		Normal operation.	AVR1:*
R31	Open		Normal operation.	AVR1:*
R32	Open		Normal operation.	AVR1:*
R33	Open		Normal operation.	AVR1:*
R34	Open		See 35 Page.	
R35	Open		Normal operation.	AVR1:*
R36	Open		Normal operation.	AVR1:*
R51	Open		Normal operation.	AVR1:*
R52	Open		Normal operation.	AVR1:*
R53	Open		Normal operation.	AVR1:*
R54	Open		Normal operation.	AVR1:*
R55	Open		Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R56	Open	Normal operation.	AVR1:*
R57	Open	Normal operation.	AVR1:*
R58	Open	Normal operation.	AVR1:*
R59	Open	Normal operation.	AVR1:*
R61	Open	Normal operation.	AVR1:*
R62	Open	Normal operation.	AVR1:*
R63	Open	Normal operation.	AVR1:*
R65	Open	Normal operation.	AVR1:*
R66	Open	Normal operation. (except 7.5V)	AVR1:*
R69	Open	Normal operation.	AVR1:*
R91	Open	Normal operation.	AVR1:*
R92	Open	Normal operation.	AVR1:*
R111	Open	No hazard.	AVR1:0[V]
R112	Open	No hazard.	AVR1:0[V]
R113	Open	No hazard.	AVR1:0[V]
R114	Open	No hazard.	AVR1:0[V]
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	Normal operation.	AVR1:*
R121	Open	No hazard.	AVR1:0[V]
R122	Open	No hazard.	AVR1:0[V]

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Component	Mode	Comment	Output Voltage (V)
R123	Open	Normal operation.	AVR1:*
R131	Open	No hazard.	AVR1:0[V]
R132	Open	No hazard.	AVR1:0[V]
R133	Open	No hazard.	AVR1:0[V]
R134	Open	No hazard.	AVR1:0[V]
R135	Open	No hazard.	AVR1:0[V]
R136	Open	No hazard.	AVR1:0[V]
R137	Open	No hazard.	AVR1:0[V]
R138	Open	Normal operation.	AVR1:*
R151	Open	Normal operation.	AVR1:*
R152	Open	Normal operation.	AVR1:*
R153	Open	Normal operation.	AVR1:*
R154	Open	No hazard.	AVR1:0[V]
R155	Open	Normal operation.	AVR1:*
R156	Open	Normal operation.	AVR1:*
R157	Open	Normal operation.	AVR1:*
R158	Open	Normal operation.	AVR1:*
R159	Open	Normal operation.	AVR1:*
R160	Open	Normal operation.	AVR1:*
R161	Open	Normal operation.	AVR1:*
R162	Open	Normal operation.	AVR1:*
R163	Open	Normal operation.	AVR1:*
R181	Open	Normal operation.	AVR1:*
R182	Open	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R183	Open	Output voltage decreased. No hazard.	AVR1:decreased
R201	Open	No hazard.	AVR1:0[V]
R202	Open	Normal operation.	AVR1:*
R221	Open	No hazard.	AVR1:0[V]
R222	Open	See 35 Page.	
R223	Open	No hazard.	AVR1:0[V]
R231	Open	Normal operation.	AVR1:*
R232	Open	Normal operation.	AVR1:*
R233	Open	Normal operation.	AVR1:*
R234	Open	Normal operation.	AVR1:*
R235	Open	No hazard.	AVR1:0[V]
R251	Open	Normal operation.	AVR1:*
R252	Open	Normal operation.	AVR1:*
R261	Open	No hazard.	AVR1:0[V]
R262	Open	Normal operation.	AVR1:*
R263	Open	Normal operation.	AVR1:*
R264	Open	Normal operation.	AVR1:*
R265	Open	Normal operation.	AVR1:*
R271	Open	No hazard.	AVR1:0[V]
R301	Open	No hazard.	AVR1:0[V]
R302	Open	No hazard.	AVR1:0[V]
R303	Open	No hazard.	AVR1:0[V]
R304	Open	No hazard.	AVR1:0[V]
R305	Open	No hazard.	AVR1:0[V]

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Component	Mode	Comment	Output Voltage (V)
R306	Open	Normal operation.	AVR1:*
R307	Open	Normal operation.	AVR1:*
R331	Open	No hazard.	AVR1:0[V]
R332	Open	No hazard.	AVR1:0[V]
R333	Open	No hazard.	AVR1:0[V]
R334	Open	Normal operation.	AVR1:*
R335	Open	Normal operation.	AVR1:*
R336	Open	No hazard.	AVR1:0[V]
R351	Open	No hazard.	AVR1:0[V]
R352	Open	Normal operation.	AVR1:*
R353	Open	Normal operation.	AVR1:*
R354	Open	Normal operation.	AVR1:*
R355	Open	Normal operation.	AVR1:*
R356	Open	Normal operation.	AVR1:*
R357	Open	No hazard.	AVR1:0[V]
R501	Open	Normal operation.	AVR1:*
R502	Open	See 35 Page.	
R503	Open	Normal operation.	AVR1:*
R504	Open	Normal operation.	AVR1:*
R505	Open	Normal operation.	AVR1:*
R506	Open	See 35 Page.	
R507	Open	Output voltage decreased. No hazard.	AVR1:decreased
R508	Open	Normal operation.	AVR1:*
R509	Open	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R510	Open	Normal operation.	AVR1:*
R511	Open	Normal operation.	AVR1:*
R512	Open	Normal operation.	AVR1:*
R513	Open	Normal operation.	AVR1:*
R521	Open	Normal operation.	AVR1:*
R522	Open	Normal operation.	AVR1:*
R541	Open	No hazard.	AVR1:0[V]
R551	Open	Output voltage decreased. No hazard.	AVR1:decreased
R552	Open	Output voltage decreased. No hazard.	AVR1:decreased
R553	Open	No hazard.	AVR1:0[V]
R554	Open	Output voltage decreased. No hazard.	AVR1:decreased
R555	Open	Normal operation.	AVR1:*
R561	Open	No hazard.	AVR1:0[V]
R562	Open	Output voltage decreased. No hazard.	AVR1:decreased
R563	Open	Normal operation.	AVR1:*
R564	Open	Normal operation.	AVR1:*
R565	Open	Output voltage decreased. No hazard.	AVR1:decreased
R566	Open	Output voltage decreased. No hazard.	AVR1:decreased
R567	Open	Output voltage decreased. No hazard.	AVR1:decreased
R568	Open	Output voltage decreased. No hazard.	AVR1:decreased
R569	Open	Output voltage decreased. No hazard.	AVR1:decreased
R570	Open	Output voltage decreased. No hazard.	AVR1:decreased
R571	Open	Output voltage decreased. No hazard.	AVR1:decreased
R572	Open	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R573	Open	Normal operation.	AVR1:*
R574	Open	No hazard.	AVR1:0[V]
R581	Open	Normal operation.	AVR1:*
R582	Open	Normal operation.	AVR1:*
R583	Open	Normal operation.	AVR1:*
R584	Open	Normal operation.	AVR1:*
R585	Open	Normal operation.	AVR1:*
R586	Open	Normal operation.	AVR1:*
R587	Open	Normal operation.	AVR1:*
R588	Open	No hazard.	AVR1:0[V]
R591	Open	Normal operation.	AVR1:*

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ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C55	Open		Output voltage decreased. No hazard. (only 7.5V)	AVR1:decreased
C56	Open		Output voltage decreased. No hazard.	AVR1:decreased
C111	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
C201	Short		No hazard.	AVR1:0[V]
C222	Short		No hazard.	AVR1:0[V]
C333	Short		No hazard.	AVR1:0[V]
C501	Short		Output voltage increased. No hazard.	AVR1:increased
C521	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C522	Short		Output voltage increased. No hazard.	AVR1:increased
C541	Short		Output voltage increased. No hazard.	AVR1:increased
C562	Short		Output voltage increased. No hazard.	AVR1:increased
D51	Short		Output voltage decreased. No hazard.	AVR1:decreased
D521	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
D522	Short		Output voltage decreased. No hazard.	AVR1:decreased
IC221	Open	3	No hazard.	AVR1:0[V]
		4	No hazard.	AVR1:0[V]
		5	No hazard.	AVR1:0[V]
IC332	Short	4-5	No hazard.	AVR1:0[V]
T11	Open	3	Output voltage decreased. No hazard.	AVR1:decreased
		4	Output voltage decreased. No hazard.	AVR1:decreased
		5	External Fuse opened, No hazard.	AVR1:0[V]

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ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
T11	Open	6	External Fuse opened, No hazard.	AVR1:0[V]
	Short	3-4	External Fuse opened, No hazard.	AVR1:0[V]
TR21	Open	G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR31	Open	G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR51	Short	S-G	Output voltage decreased. No hazard.	AVR1:decreased
TR52	Short	S-G	Output voltage decreased. No hazard.	AVR1:decreased
TR221	Short	C-E	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR501	Open	B	Output voltage decreased. No hazard.	AVR1:decreased
	Short	C-E	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR502	Short	C-E	Output voltage decreased. No hazard.	AVR1:decreased
		B-C	Output voltage decreased. No hazard.	AVR1:decreased
TR503	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR504	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR505	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR521	Open	D	Output voltage decreased. No hazard.	AVR1:decreased

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ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR521	Open	S	Output voltage decreased. No hazard.	AVR1:decreased
		G	Output voltage decreased. No hazard.	AVR1:decreased
	Short	S-G	Output voltage decreased. No hazard.	AVR1:decreased
TR522	Short	D-S	Output voltage decreased. No hazard.	AVR1:decreased
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR541	Short	B-C	Output voltage decreased. No hazard.	AVR1:decreased
ZD541	Open		Output voltage decreased. No hazard.	AVR1:decreased
R24	Open		Normal operation.	AVR1:*
R34	Open		Normal operation.	AVR1:*
R222	Open		No hazard.	AVR1:0[V]
R502	Open		Output voltage decreased. No hazard.	AVR1:decreased
R506	Open		Output voltage decreased. No hazard.	AVR1:decreased

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