

ABNORMAL TEST RESULT

OF MODEL RBC300F

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 : 2/37 ~ 33/37)

(Abnormal Test Result: 34/37 ~ 37/37)

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:* AVR2:* AVR3:*
	Short	F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
C102	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
C103	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
C104	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	F101, R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
C105	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	F101, R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
C106	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C107	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C108	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C109	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C110	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C111	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C112	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C113	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C114	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C115	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C116	Open	See page 34.	
	Short	See page 34.	
C117	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C143	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C144	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C146	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C147	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C148	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C149	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C151	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0



F M E A

Component	Mode	Comment	Output Voltage (V)
C152	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C161	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C162	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C163	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C164	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C167	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C168	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C169	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C170	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C171	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C172	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
C202	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C203	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C205	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	See page 34.	
C212	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C213	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C215	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	See page 34.	
C220	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C223	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C224	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C228	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C229	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C230	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C232	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C233	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C236	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C240	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C241	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C243	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C244	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
C245	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
C246	Open	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C247	Open	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C248	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
C249	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C251	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C260	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C261	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C263	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C264	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C270	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C301	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:* AVR2:0 AVR3:*
C302	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C303	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C304	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C401	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:* AVR2:* AVR3:0
C402	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C403	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
C404	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C501 (Except:-48)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	See page 34.	
C521	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C522	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C523	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C524	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C525 (Only -24)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C526	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C527	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C528	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C529	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C530 (Only -24)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C541 (Except:-48)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C551	Open	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C552	Open	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
C553 (Except:12)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C554	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C555	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C559	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
C560	Open	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
C581	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
C582	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D101	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D102	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
D103	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D104	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D105	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	See page 34.	
D106	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
D107	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D109	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D110	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
D141	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
D142	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
D143	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	No Hazard.	AVR1:0 AVR2:0 AVR3:0
D150	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D181	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0



F M E A

Component	Mode	Comment	Output Voltage (V)
D221	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D222	Open	See page 34.	
	Short	See page 34.	
D223	Open		AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
D224	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D225	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D228	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D551	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D552	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
D553	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
D554 (Only -24)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
IC101	Open	1	No Hazard. AVR1:0 AVR2:* AVR3:*
		2	No Hazard. AVR1:0 AVR2:0 AVR3:0
		3	Normal operation. AVR1:* AVR2:* AVR3:*
		4	No Hazard. AVR1:0 AVR2:0 AVR3:0



F M E A

Component	Mode		Comment	Output Voltage (V)	
IC101	Open	5	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
		6	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
		7	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
		8	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
	Short	1-2	See page 34.		
		2-3	See page 34.		
		3-4	Output voltage decreased.No hazard.	AVR1, AVR2, AVR3: decreased	
		5-6	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
		6-7	F101, R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0	
		7-8	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
	IC102	Open	1	No Hazard.	AVR1:0 AVR2:0 AVR3:0
			2	No Hazard.	AVR1:* AVR2:* AVR3:0
			3	No Hazard.	AVR1:* AVR2:0 AVR3:*
4			No Hazard.	AVR1:0 AVR2:0 AVR3:0	
5			Normal operation.	AVR1:* AVR2:* AVR3:*	
6			No Hazard.	AVR1:0 AVR2:0 AVR3:0	
7			Normal operation.	AVR1:* AVR2:* AVR3:*	
8			No Hazard.	AVR1:0 AVR2:0 AVR3:0	
9			Normal operation.	AVR1:* AVR2:* AVR3:*	
10			Normal operation.	AVR1:* AVR2:* AVR3:*	
11			No Hazard.	AVR1:0 AVR2:0 AVR3:0	
12			No Hazard.	AVR1:0 AVR2:0 AVR3:0	
13			Normal operation.	AVR1:* AVR2:* AVR3:*	
14			R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0	



F M E A

Component	Mode		Comment	Output Voltage (V)		
IC102	Open	15	Normal operation.	AVR1:* AVR2:* AVR3:*		
		16	No Hazard.	AVR1:0 AVR2:* AVR3:*		
		17	Normal operation.	AVR1:* AVR2:* AVR3:*		
		18	Normal operation.	AVR1:* AVR2:* AVR3:*		
		19	Normal operation.	AVR1:* AVR2:* AVR3:*		
		20	No Hazard.	AVR1:0 AVR2:* AVR3:*		
		21	No Hazard.	AVR1:0 AVR2:0 AVR3:0		
		22	Normal operation.	AVR1:* AVR2:* AVR3:*		
		23	Normal operation.	AVR1:* AVR2:* AVR3:*		
		24	No Hazard.	AVR1:0 AVR2:0 AVR3:0		
		25	Normal operation.	AVR1:* AVR2:* AVR3:*		
		26	Normal operation.	AVR1:* AVR2:* AVR3:*		
		27	Normal operation.	AVR1:* AVR2:* AVR3:0		
		28	Normal operation.	AVR1:* AVR2:0 AVR3:*		
		29	No Hazard.	AVR1:0 AVR2:0 AVR3:0		
		30	No Hazard.	AVR1:0 AVR2:0 AVR3:0		
		Short	1-2	1-2	No Hazard.	AVR1:0 AVR2:0 AVR3:0
				2-3	Normal operation.	AVR1:* AVR2:* AVR3:*
				3-4	Normal operation.	AVR1:* AVR2:* AVR3:*
				4-5	No Hazard.	AVR1:0 AVR2:0 AVR3:0
				5-6	Normal operation.	AVR1:* AVR2:* AVR3:*
				6-7	No Hazard.	AVR1:0 AVR2:0 AVR3:0
				7-8	No Hazard.	AVR1:0 AVR2:0 AVR3:0
				8-9	No Hazard.	AVR1:0 AVR2:0 AVR3:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC102	Short	9-10	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		10-11	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		11-12	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		12-13	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		13-14	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		14-15	Normal operation.	AVR1:* AVR2:* AVR3:*
		16-17	See page 34.	
		17-18	Normal operation.	AVR1:* AVR2:* AVR3:*
		18-19	Normal operation.	AVR1:* AVR2:* AVR3:*
		19-20	Normal operation.	AVR1:* AVR2:* AVR3:*
		20-21	Normal operation.	AVR1:* AVR2:* AVR3:*
		21-22	Normal operation.	AVR1:* AVR2:* AVR3:*
		22-23	Normal operation.	AVR1:* AVR2:* AVR3:*
		23-24	Normal operation.	AVR1:* AVR2:* AVR3:*
		24-25	No Hazard.	AVR1:0 AVR2:* AVR3:*
		25-26	Normal operation.	AVR1:* AVR2:* AVR3:*
		26-27	Normal operation.	AVR1:* AVR2:* AVR3:*
		27-28	Normal operation.	AVR1:* AVR2:* AVR3:*
		28-29	Normal operation.	AVR1:* AVR2:* AVR3:*
29-30	Normal operation.	AVR1:* AVR2:* AVR3:*		
IC103	Open	1	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		2	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		3	Normal operation.	AVR1:* AVR2:* AVR3:*
		4	No Hazard.	AVR1:0 AVR2:0 AVR3:0



F M E A

Component	Mode		Comment	Output Voltage (V)	
IC103	Open	5	Normal operation.	AVR1:* AVR2:* AVR3:*	
		6	Normal operation.	AVR1:* AVR2:* AVR3:*	
		7	Normal operation.	AVR1:* AVR2:* AVR3:*	
		8	Normal operation.	AVR1:* AVR2:* AVR3:*	
		9	Normal operation.	AVR1:* AVR2:* AVR3:*	
		10	Normal operation.	AVR1:* AVR2:* AVR3:*	
	Short	1-2	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
		2-3	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
		3-4	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
		4-5	Normal operation.	AVR1:* AVR2:* AVR3:*	
		6-7	Normal operation.	AVR1:* AVR2:* AVR3:*	
		7-8	Normal operation.	AVR1:* AVR2:* AVR3:*	
		8-9	Normal operation.	AVR1:* AVR2:* AVR3:*	
		9-10	Normal operation.	AVR1:* AVR2:* AVR3:*	
	IC104	Open	1	No Hazard.	AVR1:0 AVR2:0 AVR3:0
			2	No Hazard.	AVR1:0 AVR2:0 AVR3:0
3			Normal operation.	AVR1:* AVR2:* AVR3:*	
4			No Hazard.	AVR1:0 AVR2:0 AVR3:0	
5			Normal operation.	AVR1:* AVR2:* AVR3:*	
6			Normal operation.	AVR1:* AVR2:* AVR3:*	
7			Normal operation.	AVR1:* AVR2:* AVR3:*	
8			No Hazard.	AVR1:0 AVR2:0 AVR3:0	
Short		1-2	Normal operation.	AVR1:* AVR2:* AVR3:*	
		2-3	No Hazard.	AVR1:0 AVR2:0 AVR3:0	



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Component	Mode		Comment	Output Voltage (V)	
IC104	Short	3-4	Normal operation.	AVR1:* AVR2:* AVR3:*	
		5-6	Normal operation.	AVR1:* AVR2:* AVR3:*	
		6-7	Normal operation.	AVR1:* AVR2:* AVR3:*	
		7-8	No Hazard.	AVR1:0 AVR2:0 AVR3:0	
IC201	Open	1	Normal operation.	AVR1:* AVR2:* AVR3:*	
		3	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		4	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		5	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		6	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		7	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		8	Normal operation.	AVR1:* AVR2:* AVR3:*	
		9	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		10	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		11	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		12	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		14	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		15	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		16	No Hazard.	AVR1:0 AVR2:* AVR3:*	
		Short	3-4	See page 34.	
			4-5	Normal operation.	AVR1:* AVR2:* AVR3:*
	5-6		No Hazard.	AVR1:0 AVR2:* AVR3:*	
	6-7		No Hazard.	AVR1:0 AVR2:* AVR3:*	
	7-8		See page 34.		
	9-10	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*		



F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	10-11	No Hazard.	AVR1:0 AVR2:* AVR3:*
		11-12	No Hazard.	AVR1:0 AVR2:* AVR3:*
		14-15	No Hazard.	AVR1:0 AVR2:* AVR3:*
		15-16	No Hazard.	AVR1:0 AVR2:* AVR3:*
IC501 (Except:-48)	Open	1	Normal operation.	AVR1:* AVR2:* AVR3:*
		2	See page 34.	
		3	See page 34.	
		4	See page 34.	
		5	See page 34.	
		6	See page 34.	
		7	See page 34.	
		8	See page 34.	
	Short	1-2	Normal operation.	AVR1:* AVR2:* AVR3:*
		2-3	See page 34.	
		3-4	Normal operation.	AVR1:* AVR2:* AVR3:*
		5-6	See page 34.	
		6-7	See page 34.	
		7-8	See page 34.	
IC511 (Except:-48)	Open	1	Normal operation.	AVR1:* AVR2:* AVR3:*
		2	See page 35.	
		3	See page 35.	
		4	See page 35.	
		5	See page 35.	
		6	See page 35.	



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Component	Mode		Comment	Output Voltage (V)
IC511 (Except:-48)	Open	7	See page 35.	
		8	See page 35.	
	Short	1-2	Normal operation.	AVR1:* AVR2:* AVR3:*
		2-3	See page 35.	
		3-4	Normal operation.	AVR1:* AVR2:* AVR3:*
		5-6	See page 35.	
		6-7	See page 35.	
		7-8	See page 35.	
IC551	Open	1	Normal operation.	AVR1:* AVR2:* AVR3:*
		2	Normal operation.	AVR1:* AVR2:* AVR3:*
		3	No Hazard.	AVR1:0 AVR2:* AVR3:*
		4	No Hazard.	AVR1:0 AVR2:* AVR3:*
		5	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	1-2	Normal operation.	AVR1:* AVR2:* AVR3:*
		2-3	No Hazard.	AVR1:0 AVR2:* AVR3:*
		4-5	No Hazard.	AVR1:0 AVR2:* AVR3:*
		J101		Open
L101	Open	1	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		2	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		3	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		4	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	1-2	Normal operation.	AVR1:* AVR2:* AVR3:*
		2-3	F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		3-4	Normal operation.	AVR1:* AVR2:* AVR3:*



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Component	Mode		Comment	Output Voltage (V)
L102	Open	1	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		2	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		3	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		4	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	1-2	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		2-3	F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		3-4	No Hazard.	AVR1:0 AVR2:0 AVR3:0
L120	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		Normal operation.	AVR1:* AVR2:* AVR3:*
L121	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		Normal operation.	AVR1:* AVR2:* AVR3:*
L551	Open		No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short		Normal operation.	AVR1:* AVR2:* AVR3:*
PC201	Open	A, K	No Hazard.	AVR1:0 AVR2:* AVR3:*
		C, E	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	A-K	No Hazard.	AVR1:0 AVR2:* AVR3:*
		C-E	No Hazard.	AVR1:0 AVR2:* AVR3:*
PC202	Open	A, K	Normal operation.	AVR1:* AVR2:* AVR3:*
		C, E	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	A-K	Normal operation.	AVR1:* AVR2:* AVR3:*
		C-E	No Hazard.	AVR1:0 AVR2:* AVR3:*
PTH541 (Except:-48)	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		Normal operation.	AVR1:* AVR2:* AVR3:*
R101	Open		Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R102	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R103	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R104	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R105	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R111	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R112	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R113	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R114	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R115	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R116	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R117	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R118	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R119	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R120	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R121	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R122	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R123	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R124	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R125	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R126	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R127	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R128	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R130	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R131	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R132	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R133	Open	Output voltage decreased. No hazard.	AVR1, AVR2, AVR3: decreased
R134	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R135	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R136	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R137	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R138	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R139	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R140	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R141	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R142	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R143	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R144	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R145	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R146	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R147	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R148	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R152	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R153	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R154	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R155	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R156	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R157	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R158	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0



F M E A

Component	Mode	Comment	Output Voltage (V)
R161	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R162	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R163	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R164	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R165	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R166	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R167	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R168	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R169	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R170	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R171	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R175	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R176	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R177	Open	No Hazard.	AVR1:0 AVR2:0 AVR3:0
R181	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R182	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R183	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R184	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R187	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R191	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R201	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R203	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R211	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R213	Open	Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R221	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R222	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R224	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R225	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R226	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R227	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R228	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R231	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R232	Open	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
R233	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R234	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R235	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R236	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R237	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R238	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R239	Open	See page 35.	
R240	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R241	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R242	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R243	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R244	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R245	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R246	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R249	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R250	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R251	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R252	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R253	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R254	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R301	Open	No Hazard.	AVR1:* AVR2:0 AVR3:*
R302	Open	No Hazard.	AVR1:* AVR2:0 AVR3:*
R303	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R304	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R401	Open	No Hazard.	AVR1:* AVR2:* AVR3:0
R402	Open	No Hazard.	AVR1:* AVR2:* AVR3:0
R403	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R404	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R501 (Except:-48)	Open	See page 35.	
R502 (Except:-48)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R504 (Except:-48)	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R505 (Except:-48)	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R511 (Except:-48)	Open	See page 35.	
R512 (Except:-48)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R514 (Except:-48)	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R515 (Except:-48)	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R532 (Only -24)	Open	See page 35.	
R533 (Only -12)	Open	See page 35.	
R534 (Only -24)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode	Comment	Output Voltage (V)
R535 (Only -24)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R537 (Only -24)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R538 (Only -24)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R541 (Except:-48)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R542 (Except:-48)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R551	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R552	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R553	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R554	Open	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
R555	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R556	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R557	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R558	Open	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
R559 (Only -12)	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R560	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R561 (Except:12)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R563	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
R571	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R572	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R573	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R574	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R577	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R578	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
R579	Open	Normal operation.	AVR1:* AVR2:* AVR3:*



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Component	Mode		Comment	Output Voltage (V)
R580	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
R581	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
R582	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
R583	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
R584	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
R585	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
SS101	Open		No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short		See page 35.	
SS102	Open	A	See page 35.	
		K	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short		See page 35.	
SS501 (Only -48)	Open		See page 35.	
	Short		See page 35.	
SS511 (Only -48)	Open		See page 35.	
	Short		See page 35.	
T141	Open	1	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		5	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		7	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		10	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	1-5	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		5-7	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		7-10	No Hazard.	AVR1:0 AVR2:0 AVR3:0
T201	Open	1	No Hazard.	AVR1:0 AVR2:* AVR3:*
		2	No Hazard.	AVR1:0 AVR2:* AVR3:*



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Component	Mode		Comment	Output Voltage (V)
T201	Open	4	No Hazard.	AVR1:0 AVR2:* AVR3:*
		5	No Hazard.	AVR1:0 AVR2:* AVR3:*
		6	See page 35.	
		7	See page 36.	
	Short	1-2	See page 36.	
		4-5	Normal operation.	AVR1:* AVR2:* AVR3:*
		5-6	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		6-7	See page 36.	
TH161	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		No Hazard.	AVR1:0 AVR2:0 AVR3:0
TR101	Open	D	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		S	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		G	F101, R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	D-S	See page 36.	
		S-G	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		G-D	See page 36.	
TR111	Open	C	See page 36.	
		E	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		B	No Hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	C-E	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	No Hazard.	AVR1:0 AVR2:0 AVR3:0
TR112	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*



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Component	Mode		Comment	Output Voltage (V)
TR112	Open	B	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	C-E	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	No Hazard.	AVR1:0 AVR2:0 AVR3:0
TR151	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*
		B	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	C-E	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	Normal operation.	AVR1:* AVR2:* AVR3:*
TR181	Open	D	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		S	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		G	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	D-S	Normal operation.	AVR1:* AVR2:* AVR3:*
		S-G	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		G-D	Normal operation.	AVR1:* AVR2:* AVR3:*
TR201	Open	D	No Hazard.	AVR1:0 AVR2:* AVR3:*
		S	No Hazard.	AVR1:0 AVR2:* AVR3:*
		G	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	D-S	See page 36.	
		S-G	No Hazard.	AVR1:0 AVR2:* AVR3:*
		G-D	See page 36.	
TR211	Open	D	No Hazard.	AVR1:0 AVR2:* AVR3:*
		S	No Hazard.	AVR1:0 AVR2:* AVR3:*



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Component	Mode		Comment	Output Voltage (V)
TR211	Open	G	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	D-S	See page 36.	
		S-G	No Hazard.	AVR1:0 AVR2:* AVR3:*
		G-D	See page 36.	
TR221	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*
		B	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	C-E	No Hazard.	AVR1:0 AVR2:* AVR3:*
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	No Hazard.	AVR1:0 AVR2:* AVR3:*
TR222	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*
		B	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	C-E	No Hazard.	AVR1:0 AVR2:* AVR3:*
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	See page 36.	
TR251	Open	C	No Hazard.	AVR1:0 AVR2:* AVR3:*
		E	No Hazard.	AVR1:0 AVR2:* AVR3:*
		B	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	C-E	Normal operation.	AVR1:* AVR2:* AVR3:*
		E-B	No Hazard.	AVR1:* AVR2:* AVR3:*
		B-C	No Hazard.	AVR1:0 AVR2:0 AVR3:0
TR252	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR252	Open	B	Normal operation.	AVR1:* AVR2:* AVR3:*
		Short	C-E	No Hazard.
	E-B		Normal operation.	AVR1:* AVR2:* AVR3:*
	B-C		No Hazard.	AVR1:* AVR2:* AVR3:*
TR301	Open	1 (1)	No Hazard.	AVR1:* AVR2:0 AVR3:*
		1 (2)	No Hazard.	AVR1:* AVR2:0 AVR3:*
		2 (3)	No Hazard.	AVR1:* AVR2:* AVR3:0
		2 (4)	No Hazard.	AVR1:* AVR2:* AVR3:0
		2 (5)	No Hazard.	AVR1:* AVR2:* AVR3:0
		1 (6)	No Hazard.	AVR1:* AVR2:0 AVR3:*
	Short	1-1 (1-2)	No Hazard.	AVR1:* AVR2:0 AVR3:*
		1-2 (2-3)	No Hazard.	AVR1:0 AVR2:0 AVR3:0
		2-2 (3-4)	Normal operation.	AVR1:* AVR2:* AVR3:*
		2-2 (4-5)	No Hazard.	AVR1:* AVR2:* AVR3:0
		2-1 (5-6)	No Hazard.	AVR1:0 AVR2:0 AVR3:0
TR302	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*
		B	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	C-E	No Hazard.	AVR1:* AVR2:0 AVR3:*
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	No Hazard.	AVR1:* AVR2:0 AVR3:*
TR402	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*
		B	Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR402	Short	C-E	No Hazard.	AVR1:* AVR2:* AVR3:0
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	No Hazard.	AVR1:* AVR2:* AVR3:0
TR501 (Except:-48)	Open	D	See page 36.	
		S	See page 36.	
		G	See page 36.	
	Short	D-S	See page 36.	
		S-G	See page 36.	
		G-D	See page 36.	
TR511 (Except:-48)	Open	D	See page 36.	
		S	See page 36.	
		G	See page 36.	
	Short	D-S	See page 36.	
		S-G	See page 36.	
		G-D	See page 36.	
TR531 (Only -24)	Open	C	See page 36.	
		E	See page 37.	
		B	See page 37.	
	Short	C-E	Normal operation.	AVR1:* AVR2:* AVR3:*
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	See page 37.	
TR541 (Except:-48)	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*
		B	Normal operation.	AVR1:* AVR2:* AVR3:*



F M E A

Component	Mode		Comment	Output Voltage (V)
TR541 (Except:-48)	Short	C-E	No Hazard.	AVR1:0 AVR2:* AVR3:*
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	No Hazard.	AVR1:0 AVR2:* AVR3:*
TR542	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
		E	Normal operation.	AVR1:* AVR2:* AVR3:*
		B	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	C-E	No Hazard.	AVR1:0 AVR2:* AVR3:*
		E-B	Normal operation.	AVR1:* AVR2:* AVR3:*
		B-C	No Hazard.	AVR1:0 AVR2:* AVR3:*
VR501	Open	brush	Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
			Output voltage decreased.No hazard.	AVR1:decreased AVR2:*
	Short		No Hazard.	AVR1:increased AVR2:*
X181	Open	1	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		2	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		3	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		4	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
	Short	1-2	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		3-4	Normal operation.	AVR1:* AVR2:* AVR3:*
ZD211	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		No Hazard.	AVR1:0 AVR2:* AVR3:*
ZD212	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		Normal operation.	AVR1:* AVR2:* AVR3:*
ZD251	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		No Hazard.	AVR1:0 AVR2:* AVR3:*

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD252	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
ZD301	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:* AVR2:0 AVR3:*
ZD302	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
ZD401	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:* AVR2:* AVR3:0
ZD402	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	Normal operation.	AVR1:* AVR2:* AVR3:*
ZD531 (Only -24)	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	See page 37.	
ZD551 (Except:12)	Open	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
ZD581	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*
ZD582	Open	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	No Hazard.	AVR1:0 AVR2:* AVR3:*



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C116	Open		Output voltage decreased. No hazard.	AVR1, AVR2, AVR3: decreased
	Short		Output voltage decreased. No hazard.	AVR1, AVR2, AVR3: decreased
C205	Short		R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
C215	Short		R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
C501	Short		No Hazard.	AVR1:0 AVR2:* AVR3:*
D105	Short		R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
D222	Open		No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short		R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
IC101	Short	1-2	Output voltage decreased. No hazard.	AVR1, AVR2, AVR3: decreased
		2-3	Output voltage decreased. No hazard.	AVR1, AVR2, AVR3: decreased
IC102	Short	16-17	Normal operation.	AVR1:* AVR2:* AVR3:*
IC201	Short	3-4	Normal operation.	AVR1:* AVR2:* AVR3:*
		7-8	No Hazard.	AVR1:0 AVR2:* AVR3:*
IC501	Open	2	Normal operation.	AVR1:* AVR2:* AVR3:*
		3	Normal operation.	AVR1:* AVR2:* AVR3:*
		4	Normal operation.	AVR1:* AVR2:* AVR3:*
		5	Normal operation.	AVR1:* AVR2:* AVR3:*
		6	Normal operation.	AVR1:* AVR2:* AVR3:*
		7	Normal operation.	AVR1:* AVR2:* AVR3:*
		8	Normal operation.	AVR1:* AVR2:* AVR3:*
		Short	2-3	Normal operation.
	5-6		No Hazard.	AVR1:0 AVR2:* AVR3:*
	6-7		Normal operation.	AVR1:* AVR2:* AVR3:*
	7-8		Normal operation.	AVR1:* AVR2:* AVR3:*



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC511	Open	2	Normal operation.	AVR1:* AVR2:* AVR3:*
		3	Normal operation.	AVR1:* AVR2:* AVR3:*
		4	Normal operation.	AVR1:* AVR2:* AVR3:*
		5	Normal operation.	AVR1:* AVR2:* AVR3:*
		6	Normal operation.	AVR1:* AVR2:* AVR3:*
		7	Normal operation.	AVR1:* AVR2:* AVR3:*
		8	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	2-3	Normal operation.	AVR1:* AVR2:* AVR3:*
		5-6	No Hazard.	AVR1:0 AVR2:* AVR3:*
		6-7	Normal operation.	AVR1:* AVR2:* AVR3:*
		7-8	Normal operation.	AVR1:* AVR2:* AVR3:*
R239	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
R501	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
R511	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
R532	Open		No Hazard.	AVR1:0 AVR2:* AVR3:*
R533	Open		No Hazard.	AVR1:0 AVR2:* AVR3:*
SS101	Short		F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
SS102	Open	A	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		No Hazard.	AVR1:0 AVR2:0 AVR3:0
SS501	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		No Hazard.	AVR1:0 AVR2:* AVR3:*
SS511	Open		Normal operation.	AVR1:* AVR2:* AVR3:*
	Short		No Hazard.	AVR1:0 AVR2:* AVR3:*
T201	Open	6	No Hazard.	AVR1:0 AVR2:* AVR3:*



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
T201	Open	7	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	1-2	No Hazard.	AVR1:0 AVR2:* AVR3:*
		6-7	No Hazard.	AVR1:0 AVR2:* AVR3:*
TR101	Short	D-S	F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		G-D	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
TR111	Open	C	Normal operation.	AVR1:* AVR2:* AVR3:*
TR201	Short	D-S	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		G-D	R181 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
TR211	Short	D-S	F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
		G-D	F101 opened, No hazard.	AVR1:0 AVR2:0 AVR3:0
TR222	Short	B-C	No Hazard.	AVR1:0 AVR2:* AVR3:*
TR501	Open	D	No Hazard.	AVR1:0 AVR2:* AVR3:*
		S	No Hazard.	AVR1:0 AVR2:* AVR3:*
		G	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	D-S	No Hazard.	AVR1:0 AVR2:* AVR3:*
		S-G	Normal operation.	AVR1:* AVR2:* AVR3:*
		G-D	No Hazard.	AVR1:0 AVR2:* AVR3:*
TR511	Open	D	No Hazard.	AVR1:0 AVR2:* AVR3:*
		S	No Hazard.	AVR1:0 AVR2:* AVR3:*
		G	Normal operation.	AVR1:* AVR2:* AVR3:*
	Short	D-S	No Hazard.	AVR1:0 AVR2:* AVR3:*
		S-G	Normal operation.	AVR1:* AVR2:* AVR3:*
		G-D	No Hazard.	AVR1:0 AVR2:* AVR3:*
TR531	Open	C	No Hazard.	AVR1:0 AVR2:* AVR3:*



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR531	Open	E	No Hazard.	AVR1:0 AVR2:* AVR3:*
		B	No Hazard.	AVR1:0 AVR2:* AVR3:*
	Short	B-C	No Hazard.	AVR1:0 AVR2:* AVR3:*
ZD531	Short		No Hazard.	AVR1:0 AVR2:* AVR3:*