

## ABNORMAL TEST RESULT

OF MODEL HFA3500TF

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 : 2/120 ~ 102/120)

( Abnormal Test Result: 103/120 ~ 120/120)

There was no emission of flame, molten metal, ignition of cheesecloth, dielectric breakdown, opening of the ground fuse, other indication of a shock or fire hazard.

## F M E A

Component	Mode	Comment	Output Voltage (V)
C11	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C12	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C13	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C14	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C15	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C16	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C20	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C21	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C22	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C24	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C25	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C101	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
C102	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C103	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C104	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C105	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C106	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C107	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C108	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C109	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C110	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C111	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C112	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C113	Open	Normal operation.	AVR1:*
	Short	See page 103.	



## F M E A

Component	Mode	Comment	Output Voltage (V)
C114	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C115	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C116	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C117	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C118	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C119	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C120	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C121	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C122	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C123	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C124	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C125	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**



## F M E A

Component	Mode	Comment	Output Voltage (V)
C126	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C127	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C128	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C129	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C131	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C132	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C133	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C134	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C136	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C139	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C140	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C141	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
C143	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C144	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C145	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C146	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C147	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C148	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C149	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C150	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C155	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C156	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C157	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C158	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C159	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C160	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C161	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C162	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C163	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C164	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C165	Open	Normal operation.	AVR1:*
	Short	See page 103.	
C166	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C167	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C168	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C169	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C170	Open	Normal operation.	AVR1:*
	Short	See page 104.	



## F M E A

Component	Mode	Comment	Output Voltage (V)
C171	Open	Normal operation.	AVR1:**
	Short	See page 104.	
C172	Open	Normal operation.	AVR1:**
	Short	See page 104.	
C173	Open	Normal operation.	AVR1:**
	Short	See page 104.	
C174	Open	Normal operation.	AVR1:**
	Short	See page 104.	
C191	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C192	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C202	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C203	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C206	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C207	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C208	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C209	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0





## F M E A

Component	Mode	Comment	Output Voltage (V)
C210	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C211	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C212	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C213	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C215	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C216	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C217	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C218	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C219	Open	Normal operation.	AVR1:**
	Short	See page 104.	
C220	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C221	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C222	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
C223	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C224	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C225	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C228	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C229	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C230	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C231	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C232	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C233	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C238	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C240	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C241	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
C245	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C271	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C272	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C281	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C282	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C291	Open	See page 104.	
	Short	Normal operation.	AVR1:*
C309	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C310	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C311	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C312	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C315	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C316	Open	Normal operation.	AVR1:*
	Short	See page 104.	



## F M E A

Component	Mode	Comment	Output Voltage (V)
C317	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C318	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C319	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C320	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C321	Open	Normal operation.	AVR1:**
	Short	See page 104.	
C322	Open	Normal operation.	AVR1:**
	Short	See page 104.	
C323	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C324	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C325	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C326	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C327	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C328	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**

## F M E A

Component	Mode	Comment	Output Voltage (V)
C329	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C330	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C335	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C336	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C337	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C338	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C339	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C340	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C341	Open	Normal operation.	AVR1:*
	Short	See page 104.	
C342	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C343	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C344	Open	Normal operation.	AVR1:*
	Short	See page 105.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C346	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C347	Open	See page 105.	
	Short	See page 105.	
C348	Open	See page 105.	
	Short	See page 105.	
C349	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C350	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C351	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C352	Open	See page 105.	
	Short	See page 105.	
C353	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C354	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C355	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C356	Open	See page 105.	
	Short	See page 105.	
C357	Open	Normal operation.	AVR1:*
	Short	See page 105.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
C360	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C361	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C362	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C363	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C364	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C365	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C366	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C367	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C368	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C369	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C370	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C371	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C374	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
C375	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C376	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C381	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C382	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C383	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C384	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C501	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C502	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C503	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C504	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C505	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0





## F M E A

Component	Mode	Comment	Output Voltage (V)
C506	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C508	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C509	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C510	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C511	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C512	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C513	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C514	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C515	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C516	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C517	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C518	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
C523	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C530	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C531	Open	Normal operation.	AVR1:*
	Short	See page 105.	
C532	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C533	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C534	Open	See page 106.	
	Short	See page 106.	
C535	Open	See page 106.	
	Short	See page 106.	
C541	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C542	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C543	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C544	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C545	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C546	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C547	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C548	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C550	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C551	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C561	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C603	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C604 (Only -48)	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C606	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C607	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C608	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C609	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C610	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C611	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C612	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C613	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C616	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C617	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C619	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C621	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C622	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C624	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C625	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C626	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage increased. No hazard.	AVR1:increased



## F M E A

Component	Mode	Comment	Output Voltage (V)
C627	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C629	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C632	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C634	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C637	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C638	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C640	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C641	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C642	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C643	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C644	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C645	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C701	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C702	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C703	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C704	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C706	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C707	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C708	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C711	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C712	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C713	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C714	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C715	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
C716	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C717	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No hazard.	AVR1:0
C718	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C719	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C720	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C721	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C722	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C723	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C725	Open	Normal operation.	AVR1:*
	Short	See page 106.	
C726	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C727	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C728	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased

## F M E A

Component	Mode	Comment	Output Voltage (V)
C729	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C730	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C731	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C732	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C733	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C734	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C738	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C741	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C751	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C802	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C803	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C804	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
C805	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C806	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C807	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C808	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C809	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C810	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C811	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C812	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C813	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C814	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C815	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
C817	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
C820	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C821	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
D101	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D102	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D103	Open	See page 106.	
	Short	Normal operation.	AVR1:**
D104	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
D105	Open	See page 106.	
	Short	Normal operation.	AVR1:**
D106	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
D107	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D108	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D109	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D110	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**

## F M E A

Component	Mode	Comment	Output Voltage (V)
D111	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D112	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D113	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D114	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D115	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D116	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D120	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D121	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D122	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D123	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D124	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D125	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
D126	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D127	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D128	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D129	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D191	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D201	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D202	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D203	Open		
	Short	No hazard.	AVR1:0
D204	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D205	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D271	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D272	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
D281	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D305	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D306	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D307	Open	See page 106.	
	Short	See page 106.	
D308	Open	See page 106.	
	Short	See page 106.	
D309	Open	See page 106.	
	Short	No hazard.	AVR1:0
D310	Open	Normal operation.	AVR1:*
	Short	See page 106.	
D312	Open	Normal operation.	AVR1:*
	Short	See page 107.	
D313	Open	Normal operation.	AVR1:*
	Short	See page 107.	
D314	Open	Normal operation.	AVR1:*
	Short	See page 107.	
D315	Open	Normal operation.	AVR1:*
	Short	See page 107.	
D316	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
D317	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D318	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D319	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
D501	Open	See page 107.	
	Short	See page 107.	
D502	Open	See page 107.	
	Short	See page 107.	
D503	Open	See page 107.	
	Short	See page 107.	
D504	Open	See page 107.	
	Short	See page 107.	
D505	Open	See page 107.	
	Short	Normal operation.	AVR1:*
D506	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D507	Open	See page 107.	
	Short	See page 107.	
D508	Open	See page 107.	
	Short	See page 107.	
D509	Open	See page 107.	
	Short	See page 107.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
D510	Open	See page 107.	
	Short	See page 107.	
D601	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D701	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D703	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
D704	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D705	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D706	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D707	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D708	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D709	Open	Output voltage increased. No hazard.	AVR1:increased
	Short	Normal operation.	AVR1:*
D710	Open	Normal operation.	AVR1:*
	Short	No hazard.	AVR1:0
D801	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
D802	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
D803	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
FAN701	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
FAN702	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
IC101	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*





## F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Short	2-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
IC102	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	No hazard.	AVR1:0
		9	No hazard.	AVR1:0
		10	Normal operation.	AVR1:*
		11	No hazard.	AVR1:0
		12	No hazard.	AVR1:0
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
		17	No hazard.	AVR1:0
		18	Normal operation.	AVR1:*
		19	Normal operation.	AVR1:*
		20	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC102	Short	3-4	Normal operation.	AVR1:*
		4-5	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
		8-9	No hazard.	AVR1:0
		9-10	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	F11, F12, F13 opened. No hazard.	AVR1:0
		14-15	F11, F12, F13 opened. No hazard.	AVR1:0
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	F11, F12, F13 opened. No hazard.	AVR1:0
		18-19	Normal operation.	AVR1:*
		19-20	Normal operation.	AVR1:*
IC103	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC103	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	F11, F12, F13 opened. No hazard.	AVR1:0
		6-7	F11, F12, F13 opened. No hazard.	AVR1:0
		7-8	F11, F12, F13 opened. No hazard.	AVR1:0
IC104	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
IC201	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		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
IC202	Open	K	No hazard.	AVR1:0
		A	No hazard.	AVR1:0
		R	No hazard.	AVR1:0
	Short	A-K	No hazard.	AVR1:0
		K-R	No hazard.	AVR1:0
		R-A	No hazard.	AVR1:0
IC203	Open	1	No hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	No hazard.	AVR1:0
		5	Normal operation.	AVR1:*
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC203	Open	9	Normal operation.	AVR1:**
		10	Normal operation.	AVR1:**
		11	No hazard.	AVR1:0
		12	No hazard.	AVR1:0
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	Normal operation.	AVR1:**
		16	Normal operation.	AVR1:**
		17	Normal operation.	AVR1:**
		18	Normal operation.	AVR1:**
		19	Normal operation.	AVR1:**
		20	Normal operation.	AVR1:**
		21	Normal operation.	AVR1:**
		22	No hazard.	AVR1:0
		23	Normal operation.	AVR1:**
		24	Normal operation.	AVR1:**
		25	Normal operation.	AVR1:**
		26	Normal operation.	AVR1:**
		27	Normal operation.	AVR1:**
		28	No hazard.	AVR1:0
		29	No hazard.	AVR1:0
		30	Normal operation.	AVR1:**
		31	Normal operation.	AVR1:**
		32	Normal operation.	AVR1:**



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC203	Open	33	Normal operation.	AVR1:*
		34	Normal operation.	AVR1:*
		35	No hazard.	AVR1:0
		36	Normal operation.	AVR1:*
		37	No hazard.	AVR1:0
		38	Normal operation.	AVR1:*
	Short	1-2	No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*
		3-4	No hazard.	AVR1:0
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
		8-9	Normal operation.	AVR1:*
		9-10	No hazard.	AVR1:0
		10-11	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	Normal operation.	AVR1:*
		15-16	Normal operation.	AVR1:*
		16-17	Normal operation.	AVR1:*
		17-18	Normal operation.	AVR1:*
		18-19	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC203	Short	20-21	Normal operation.	AVR1:*
		21-22	Normal operation.	AVR1:*
		22-23	No hazard.	AVR1:0
		23-24	No hazard.	AVR1:0
		24-25	Normal operation.	AVR1:*
		25-26	Normal operation.	AVR1:*
		26-27	Normal operation.	AVR1:*
		27-28	No hazard.	AVR1:0
		28-29	No hazard.	AVR1:0
		29-30	No hazard.	AVR1:0
		30-31	Normal operation.	AVR1:*
		31-32	Normal operation.	AVR1:*
		32-33	Normal operation.	AVR1:*
		33-34	No hazard.	AVR1:0
		34-35	Normal operation.	AVR1:*
		35-36	Normal operation.	AVR1:*
		36-37	No hazard.	AVR1:0
		37-38	No hazard.	AVR1:0
IC301	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	See page 107.	
		5	See page 107.	
		6	See page 107.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Open	7	No hazard.	AVR1:0
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	See page 108.	
		13	See page 108.	
		14	See page 108.	
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0
		17	See page 108.	
		18	See page 108.	
		19	See page 108.	
		20	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	See page 108.	
		5-6	See page 108.	
		6-7	See page 108.	
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*
		11-12	See page 108.	



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	12-13	See page 108.	
		13-14	See page 108.	
		14-15	See page 108.	
		15-16	See page 108.	
		16-17	See page 108.	
		17-18	See page 108.	
		18-19	See page 108.	
		19-20	Normal operation.	AVR1:*
IC302	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	See page 108.	
		5	See page 108.	
		6	See page 108.	
		7	No hazard.	AVR1:0
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	See page 108.	
		13	See page 108.	
		14	See page 108.	
		15	No hazard.	AVR1:0
		16	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC302	Open	17	See page 108.	
		18	See page 109.	
		19	See page 109.	
		20	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	See page 109.	
		5-6	See page 109.	
		6-7	See page 109.	
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*
		11-12	See page 109.	
		12-13	See page 109.	
		13-14	See page 109.	
		14-15	See page 109.	
		15-16	See page 109.	
		16-17	See page 109.	
		17-18	See page 109.	
		18-19	See page 109.	
		19-20	Normal operation.	AVR1:*
IC303	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC303	Open	3	No hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	No hazard.	AVR1:0
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
		14	Normal operation.	AVR1:*
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	Normal operation.	AVR1:*
		18	Normal operation.	AVR1:*
		19	See page 109.	
		20	See page 109.	
		21	See page 109.	
		22	See page 109.	
		23	No hazard.	AVR1:0
		24	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC303	Short	3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	No hazard.	AVR1:0
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	Normal operation.	AVR1:*
		10-11	Normal operation.	AVR1:*
		11-12	No hazard.	AVR1:0
		13-14	Normal operation.	AVR1:*
		14-15	Normal operation.	AVR1:*
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	Normal operation.	AVR1:*
		18-19	No hazard.	AVR1:0
		19-20	No hazard.	AVR1:0
		20-21	No hazard.	AVR1:0
		21-22	No hazard.	AVR1:0
		22-23	No hazard.	AVR1:0
		23-24	No hazard.	AVR1:0
IC501	Open	1	See page 109.	
		2	See page 109.	
		3	See page 109.	
		4	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC501	Open	5	See page 109.	
		6	See page 109.	
		7	Normal operation.	AVR1:*
		8	See page 109.	
		9	See page 109.	
		10	See page 110.	
		11	See page 110.	
		12	See page 110.	
		13	See page 110.	
	Short	1-2	See page 110.	
		2-3	No hazard.	AVR1:0
		3-4	See page 110.	
		4-5	See page 110.	
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		8-9	See page 110.	
		9-10	No hazard.	AVR1:0
		10-11	See page 110.	
		11-12	See page 110.	
		12-13	No hazard.	AVR1:0
IC502	Open	1	Normal operation.	AVR1:*
		2	See page 110.	
		3	See page 110.	
		4	See page 110.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC502	Open	5	See page 110.	
		6	See page 110.	
		7	See page 110.	
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	See page 110.	
		3-4	See page 110.	
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		7-8	Normal operation.	AVR1:*
IC503	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
IC601	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC601	Open	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
IC602	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
IC603	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC603	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
IC604	Open	1	See page 110.	
		2	Normal operation.	AVR1:*
		3	See page 110.	
		4	See page 110.	
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	See page 110.	
	Short	1-2	See page 110.	
		2-3	See page 110.	
		3-4	See page 111.	
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No hazard.	AVR1:0
IC605	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC605	Open	5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No hazard.	AVR1:0
IC701	Open	K	No hazard.	AVR1:0
		A	No hazard.	AVR1:0
		R	No hazard.	AVR1:0
	Short	A-K	No hazard.	AVR1:0
		K-R	No hazard.	AVR1:0
		R-A	No hazard.	AVR1:0
IC702	Open	1	No hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	No hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC702	Open	9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Output voltage decreased. No hazard.	AVR1:decreased
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		15	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
		17	Normal operation.	AVR1:*
		18	Normal operation.	AVR1:*
		19	Normal operation.	AVR1:*
		20	Normal operation.	AVR1:*
		21	Normal operation.	AVR1:*
		22	No hazard.	AVR1:0
		23	Normal operation.	AVR1:*
		24	No hazard.	AVR1:0
		25	Normal operation.	AVR1:*
		26	No hazard.	AVR1:0
		27	No hazard.	AVR1:0
		28	Normal operation.	AVR1:*
		29	Normal operation.	AVR1:*
		30	Normal operation.	AVR1:*
		31	Normal operation.	AVR1:*
		32	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC702	Open	33	No hazard.	AVR1:0
		34	No hazard.	AVR1:0
		35	Normal operation.	AVR1:*
		36	Normal operation.	AVR1:*
		37	Normal operation.	AVR1:*
		38	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	No hazard.	AVR1:0
		8-9	Normal operation.	AVR1:*
		9-10	No hazard.	AVR1:0
		10-11	Normal operation.	AVR1:*
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	No hazard.	AVR1:0
		15-16	Normal operation.	AVR1:*
		16-17	Normal operation.	AVR1:*
		17-18	Normal operation.	AVR1:*
		18-19	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC702	Short	20-21	No hazard.	AVR1:0
		21-22	Normal operation.	AVR1:*
		22-23	No hazard.	AVR1:0
		23-24	Normal operation.	AVR1:*
		24-25	Normal 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	No hazard.	AVR1:0
		30-31	Normal operation.	AVR1:*
		31-32	Normal operation.	AVR1:*
		32-33	Normal operation.	AVR1:*
		33-34	No hazard.	AVR1:0
		34-35	Normal operation.	AVR1:*
		35-36	Normal operation.	AVR1:*
		36-37	Normal operation.	AVR1:*
		37-38	Normal operation.	AVR1:*
IC703	Open	K	No hazard.	AVR1:0
		A	No hazard.	AVR1:0
		R	No hazard.	AVR1:0
	Short	A-K	No hazard.	AVR1:0
		K-R	No hazard.	AVR1:0
		R-A	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC801	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
		6-7	Normal operation.	AVR1:*
		7-8	Normal operation.	AVR1:*
L11	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	F11, F12 opened. No hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
		4-5	F12, F13 opened. No hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
L14	Open	1	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
L14	Open	2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	F11, F12, F13 opened. No hazard.	AVR1:0
		3-4	Normal operation.	AVR1:*
L101	Open		No hazard.	AVR1:0
	Short		F11, F12, F13 opened. No hazard.	AVR1:0
L102	Open		No hazard.	AVR1:0
	Short		F11, F12, F13 opened. No hazard.	AVR1:0
L301	Open		No hazard.	AVR1:0
	Short		See page 111.	
L501	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
L701	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L801	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
LED701	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
LED702	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
PC101	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
PC101	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
PC102	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC201	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0
	Short	A-K	See page 111.	
		C-E	See page 111.	
PC202	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0
	Short	A-K	See page 111.	
		C-E	See page 111.	
PC204	Open	A, K	See page 111.	
		C, E	See page 111.	
	Short	A-K	See page 111.	
		C-E	See page 111.	
PC205	Open	A, K	See page 111.	
		C, E	See page 111.	
	Short	A-K	See page 111.	
		C-E	See page 111.	
PC301	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
PC301	Short	A-K	See page 111.	
		C-E	See page 111.	
PC302	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	See page 111.	
		C-E	See page 111.	
PC801	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
PC802	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
PC803	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
PC804	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	Normal operation.	AVR1:*
PC805	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*





## F M E A

Component	Mode		Comment	Output Voltage (V)
PC805	Short	A-K	Normal operation.	AVR1:**
		C-E	Normal operation.	AVR1:**
PC807	Open	A, K	Normal operation.	AVR1:**
		C, E	Normal operation.	AVR1:**
	Short	A-K	Normal operation.	AVR1:**
		C-E	Normal operation.	AVR1:**
PTH102	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:**
PTH301	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:**
PTH502	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:**
PTH503	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:**
R11	Open		Normal operation.	AVR1:**
R12	Open		Normal operation.	AVR1:**
R13	Open		Normal operation.	AVR1:**
R14	Open		Normal operation.	AVR1:**
R15	Open		Normal operation.	AVR1:**
R16	Open		Normal operation.	AVR1:**
R17	Open		Normal operation.	AVR1:**
R18	Open		Normal operation.	AVR1:**
R19	Open		Normal operation.	AVR1:**
R20	Open		Normal operation.	AVR1:**



## F M E A

Component	Mode	Comment	Output Voltage (V)
R21	Open	Normal operation.	AVR1:**
R22	Open	Normal operation.	AVR1:**
R23	Open	Normal operation.	AVR1:**
R24	Open	Normal operation.	AVR1:**
R25	Open	Normal operation.	AVR1:**
R26	Open	Normal operation.	AVR1:**
R27	Open	Normal operation.	AVR1:**
R28	Open	Normal operation.	AVR1:**
R29	Open	Normal operation.	AVR1:**
R30	Open	Normal operation.	AVR1:**
R31	Open	Normal operation.	AVR1:**
R32	Open	Normal operation.	AVR1:**
R33	Open	Normal operation.	AVR1:**
R34	Open	Normal operation.	AVR1:**
R35	Open	Normal operation.	AVR1:**
R36	Open	Normal operation.	AVR1:**
R37	Open	Normal operation.	AVR1:**
R38	Open	Normal operation.	AVR1:**
R39	Open	Normal operation.	AVR1:**
R40	Open	Normal operation.	AVR1:**
R41	Open	Normal operation.	AVR1:**
R42	Open	Normal operation.	AVR1:**
R43	Open	Normal operation.	AVR1:**
R44	Open	Normal operation.	AVR1:**



## F M E A

Component	Mode	Comment	Output Voltage (V)
R45	Open	Normal operation.	AVR1:*
R46	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:*
R56	Open	Normal operation.	AVR1:*
R101	Open	Normal operation.	AVR1:*
R102	Open	Normal operation.	AVR1:*
R103	Open	Normal operation.	AVR1:*
R104	Open	No hazard.	AVR1:0
R105	Open	No hazard.	AVR1:0
R106	Open	No hazard.	AVR1:0
R107	Open	No hazard.	AVR1:0
R108	Open	No hazard.	AVR1:0
R109	Open	No hazard.	AVR1:0
R110	Open	No hazard.	AVR1:0
R111	Open	No hazard.	AVR1:0
R112	Open	No hazard.	AVR1:0
R113	Open	No hazard.	AVR1:0
R114	Open	See page 111.	
R115	Open	Normal operation.	AVR1:*
R116	Open	No hazard.	AVR1:0

## F M E A

Component	Mode	Comment	Output Voltage (V)
R117	Open	Normal operation.	AVR1:*
R118	Open	Normal operation.	AVR1:*
R119	Open	No hazard.	AVR1:0
R120	Open	See page 111.	
R121	Open	Normal operation.	AVR1:*
R122	Open	No hazard.	AVR1:0
R123	Open	Normal operation.	AVR1:*
R124	Open	Normal operation.	AVR1:*
R125	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R126	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R127	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R128	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R129	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R130	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R131	Open	Normal operation.	AVR1:*
R132	Open	Normal operation.	AVR1:*
R133	Open	Normal operation.	AVR1:*
R134	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R135	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R136	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R137	Open	Normal operation.	AVR1:*
R138	Open	Output voltage decreased. No hazard.	AVR1:decreased
R139	Open	Output voltage decreased. No hazard.	AVR1:decreased
R140	Open	No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
R141	Open	No hazard.	AVR1:0
R142	Open	Normal operation.	AVR1:*
R144	Open	No hazard.	AVR1:0
R145	Open	No hazard.	AVR1:0
R146	Open	No hazard.	AVR1:0
R147	Open	No hazard.	AVR1:0
R149	Open	Normal operation.	AVR1:*
R150	Open	Normal operation.	AVR1:*
R151	Open	Normal operation.	AVR1:*
R152	Open	No hazard.	AVR1:0
R153	Open	No hazard.	AVR1:0
R154	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R155	Open	No hazard.	AVR1:0
R156	Open	No hazard.	AVR1:0
R158	Open	No hazard.	AVR1:0
R159	Open	No hazard.	AVR1:0
R160	Open	No hazard.	AVR1:0
R161	Open	No hazard.	AVR1:0
R162	Open	No hazard.	AVR1:0
R163	Open	No hazard.	AVR1:0
R164	Open	No hazard.	AVR1:0
R165	Open	No hazard.	AVR1:0
R166	Open	Normal operation.	AVR1:*
R167	Open	No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
R168	Open	No hazard.	AVR1:0
R169	Open	No hazard.	AVR1:0
R170	Open	No hazard.	AVR1:0
R171	Open	No hazard.	AVR1:0
R172	Open	No hazard.	AVR1:0
R173	Open	No hazard.	AVR1:0
R174	Open	No hazard.	AVR1:0
R175	Open	No hazard.	AVR1:0
R176	Open	No hazard.	AVR1:0
R177	Open	No hazard.	AVR1:0
R178	Open	No hazard.	AVR1:0
R179	Open	No hazard.	AVR1:0
R180	Open	No hazard.	AVR1:0
R181	Open	Normal operation.	AVR1:*
R182	Open	No hazard.	AVR1:0
R183	Open	No hazard.	AVR1:0
R184	Open	Normal operation.	AVR1:*
R185	Open	Normal operation.	AVR1:*
R186	Open	Normal operation.	AVR1:*
R187	Open	Normal operation.	AVR1:*
R188	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R189	Open	Normal operation.	AVR1:*
R190	Open	Normal operation.	AVR1:*
R191	Open	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R192	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R193	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R194	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R195	Open	F11, F12, F13 opened. No hazard.	AVR1:0
R196	Open	Normal operation.	AVR1:*
R197	Open	Normal operation.	AVR1:*
R198	Open	No hazard.	AVR1:0
R199	Open	No hazard.	AVR1:0
R201	Open	No hazard.	AVR1:0
R202	Open	No hazard.	AVR1:0
R203	Open	No hazard.	AVR1:0
R204	Open	No hazard.	AVR1:0
R205	Open	No hazard.	AVR1:0
R206	Open	No hazard.	AVR1:0
R207	Open	No hazard.	AVR1:0
R208	Open	Normal operation.	AVR1:*
R209	Open	Normal operation.	AVR1:*
R210	Open	Normal operation.	AVR1:*
R211	Open	Normal operation.	AVR1:*
R212	Open	No hazard.	AVR1:0
R213	Open	No hazard.	AVR1:0
R214	Open	No hazard.	AVR1:0
R215	Open	No hazard.	AVR1:0
R217	Open	No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
R219	Open	No hazard.	AVR1:0
R220	Open	No hazard.	AVR1:0
R222	Open	No hazard.	AVR1:0
R223	Open	No hazard.	AVR1:0
R224	Open	No hazard.	AVR1:0
R227	Open	No hazard.	AVR1:0
R228	Open	No hazard.	AVR1:0
R229	Open	Normal operation.	AVR1:*
R230	Open	Normal operation.	AVR1:*
R231	Open	Normal operation.	AVR1:*
R232	Open	No hazard.	AVR1:0
R233	Open	No hazard.	AVR1:0
R234	Open	No hazard.	AVR1:0
R235	Open	Normal operation.	AVR1:*
R236	Open	Normal operation.	AVR1:*
R237	Open	Normal operation.	AVR1:*
R238	Open	No hazard.	AVR1:0
R242	Open	No hazard.	AVR1:0
R243	Open	No hazard.	AVR1:0
R244	Open	Normal operation.	AVR1:*
R245	Open	Normal operation.	AVR1:*
R246	Open	Normal operation.	AVR1:*
R247	Open	Normal operation.	AVR1:*
R248	Open	Normal operation.	AVR1:*





## F M E A

Component	Mode	Comment	Output Voltage (V)
R249	Open	Normal operation.	AVR1:*
R251	Open	No hazard.	AVR1:0
R252	Open	Normal operation.	AVR1:*
R253	Open	Normal operation.	AVR1:*
R254	Open	Normal operation.	AVR1:*
R255	Open	Normal operation.	AVR1:*
R258	Open	No hazard.	AVR1:0
R259	Open	No hazard.	AVR1:0
R260	Open	See page 111.	
R261	Open	See page 111.	
R262	Open	See page 111.	
R263	Open	See page 111.	
R264	Open	Normal operation.	AVR1:*
R265	Open	No hazard.	AVR1:0
R271	Open	No hazard.	AVR1:0
R272	Open	No hazard.	AVR1:0
R273	Open	No hazard.	AVR1:0
R274	Open	No hazard.	AVR1:0
R282	Open	No hazard.	AVR1:0
R283	Open	No hazard.	AVR1:0
R285	Open	No hazard.	AVR1:0
R286	Open	No hazard.	AVR1:0
R291	Open	See page 112.	
R292	Open	See page 112.	



## F M E A

Component	Mode	Comment	Output Voltage (V)
R293	Open	See page 112.	
R294	Open	See page 112.	
R295	Open	See page 112.	
R296	Open	See page 112.	
R297	Open	Normal operation.	AVR1:*
R298	Open	Normal operation.	AVR1:*
R301	Open	No hazard.	AVR1:0
R302	Open	No hazard.	AVR1:0
R303	Open	No hazard.	AVR1:0
R304	Open	No hazard.	AVR1:0
R305	Open	No hazard.	AVR1:0
R306	Open	No hazard.	AVR1:0
R307	Open	No hazard.	AVR1:0
R308	Open	No hazard.	AVR1:0
R309	Open	No hazard.	AVR1:0
R310	Open	No hazard.	AVR1:0
R311	Open	No hazard.	AVR1:0
R312	Open	No hazard.	AVR1:0
R325	Open	Normal operation.	AVR1:*
R326	Open	Normal operation.	AVR1:*
R327	Open	Normal operation.	AVR1:*
R328	Open	Normal operation.	AVR1:*
R329	Open	Normal operation.	AVR1:*
R330	Open	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R331	Open	Normal operation.	AVR1:*
R332	Open	Normal operation.	AVR1:*
R333	Open	Normal operation.	AVR1:*
R334	Open	Normal operation.	AVR1:*
R335	Open	See page 112.	
R336	Open	See page 112.	
R337	Open	No hazard.	AVR1:0
R338	Open	See page 112.	
R339	Open	Normal operation.	AVR1:*
R340	Open	See page 112.	
R341	Open	See page 112.	
R342	Open	See page 112.	
R343	Open	Normal operation.	AVR1:*
R344	Open	See page 112.	
R345	Open	See page 112.	
R346	Open	See page 112.	
R347	Open	Normal operation.	AVR1:*
R348	Open	See page 112.	
R349	Open	See page 112.	
R350	Open	Normal operation.	AVR1:*
R351	Open	See page 112.	
R352	Open	Normal operation.	AVR1:*
R366	Open	No hazard.	AVR1:0
R368	Open	See page 112.	



## F M E A

Component	Mode	Comment	Output Voltage (V)
R369	Open	No hazard.	AVR1:0
R370	Open	See page 112.	
R371	Open	No hazard.	AVR1:0
R372	Open	No hazard.	AVR1:0
R373	Open	No hazard.	AVR1:0
R374	Open	No hazard.	AVR1:0
R375	Open	See page 112.	
R376	Open	No hazard.	AVR1:0
R377	Open	Normal operation.	AVR1:*
R378	Open	See page 112.	
R379	Open	See page 112.	
R380	Open	See page 112.	
R381	Open	See page 113.	
R382	Open	See page 113.	
R383	Open	See page 113.	
R384	Open	See page 113.	
R385	Open	See page 113.	
R386	Open	See page 113.	
R387	Open	No hazard.	AVR1:0
R389	Open	See page 113.	
R403	Open	Normal operation.	AVR1:*
R404	Open	Output voltage decreased. No hazard.	AVR1:decreased
R405	Open	Normal operation.	AVR1:*
R406	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R407	Open	Normal operation.	AVR1:*
R408	Open	Normal operation.	AVR1:*
R409	Open	Normal operation.	AVR1:*
R410	Open	Normal operation.	AVR1:*
R411	Open	Normal operation.	AVR1:*
R412	Open	No hazard.	AVR1:0
R413	Open	Normal operation.	AVR1:*
R414	Open	See page 113.	
R415	Open	Normal operation.	AVR1:*
R416	Open	Output voltage decreased. No hazard.	AVR1:decreased
R417	Open	Output voltage decreased. No hazard.	AVR1:decreased
R418	Open	See page 113.	
R419	Open	See page 113.	
R420	Open	See page 113.	
R421	Open	Normal operation.	AVR1:*
R422	Open	Normal operation.	AVR1:*
R423	Open	Normal operation.	AVR1:*
R501	Open	Normal operation.	AVR1:*
R502	Open	Normal operation.	AVR1:*
R503	Open	See page 113.	
R504	Open	See page 113.	
R513	Open	Normal operation.	AVR1:*
R514	Open	Normal operation.	AVR1:*
R515	Open	See page 113.	



## F M E A

Component	Mode	Comment	Output Voltage (V)
R516	Open	See page 113.	
R525	Open	Normal operation.	AVR1:*
R526	Open	Normal operation.	AVR1:*
R527	Open	Normal operation.	AVR1:*
R528	Open	Normal operation.	AVR1:*
R529	Open	Normal operation.	AVR1:*
R530	Open	Normal operation.	AVR1:*
R534	Open	See page 113.	
R535	Open	Normal operation.	AVR1:*
R536	Open	See page 113.	
R537	Open	See page 113.	
R538	Open	Normal operation.	AVR1:*
R540	Open	Output voltage decreased. No hazard.	AVR1:decreased
R541	Open	See page 113.	
R542	Open	Normal operation.	AVR1:*
R543	Open	Normal operation.	AVR1:*
R544	Open	Normal operation.	AVR1:*
R545	Open	Normal operation.	AVR1:*
R546	Open	Normal operation.	AVR1:*
R547	Open	Normal operation.	AVR1:*
R548	Open	Normal operation.	AVR1:*
R549	Open	Normal operation.	AVR1:*
R550	Open	Normal operation.	AVR1:*
R551	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R552	Open	Normal operation.	AVR1:*
R553	Open	Normal operation.	AVR1:*
R554	Open	See page 113.	
R555	Open	See page 113.	
R556	Open	See page 113.	
R557	Open	See page 113.	
R558	Open	See page 113.	
R559	Open	See page 114.	
R560	Open	See page 114.	
R561	Open	See page 114.	
R562	Open	See page 114.	
R563	Open	See page 114.	
R564	Open	See page 114.	
R565	Open	Normal operation.	AVR1:*
R566	Open	Normal operation.	AVR1:*
R567	Open	Normal operation.	AVR1:*
R568	Open	See page 114.	
R569	Open	Normal operation.	AVR1:*
R570	Open	Normal operation.	AVR1:*
R571	Open	Normal operation.	AVR1:*
R572	Open	Normal operation.	AVR1:*
R573	Open	Normal operation.	AVR1:*
R574	Open	See page 114.	
R575	Open	See page 114.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
R576	Open	Normal operation.	AVR1:**
R591	Open	See page 114.	
R592	Open	See page 114.	
R603	Open	No hazard.	AVR1:0
R604	Open	Output voltage decreased. No hazard.	AVR1:decreased
R605	Open	Normal operation.	AVR1:**
R607	Open	Output voltage decreased. No hazard.	AVR1:decreased
R608	Open	Normal operation.	AVR1:**
R609	Open	Normal operation.	AVR1:**
R610	Open	Normal operation.	AVR1:**
R611	Open	Normal operation.	AVR1:**
R612	Open	Output voltage decreased. No hazard.	AVR1:decreased
R613	Open	Normal operation.	AVR1:**
R614	Open	No hazard.	AVR1:0
R615	Open	Normal operation.	AVR1:**
R616	Open	No hazard.	AVR1:0
R617	Open	Normal operation.	AVR1:**
R618	Open	Normal operation.	AVR1:**
R619	Open	Normal operation.	AVR1:**
R620	Open	No hazard.	AVR1:0
R624	Open	No hazard.	AVR1:0
R627	Open	Output voltage decreased. No hazard.	AVR1:decreased
R628	Open	Output voltage decreased. No hazard.	AVR1:decreased
R629	Open	Output voltage decreased. No hazard.	AVR1:decreased



## F M E A

Component	Mode	Comment	Output Voltage (V)
R630	Open	Output voltage decreased. No hazard.	AVR1:decreased
R631	Open	Output voltage decreased. No hazard.	AVR1:decreased
R632	Open	No hazard.	AVR1:0
R633	Open	No hazard.	AVR1:0
R635	Open	No hazard.	AVR1:0
R636	Open	No hazard.	AVR1:0
R638 (Only -48)	Open	Normal operation.	AVR1:*
R639	Open	Normal operation.	AVR1:*
R640	Open	No hazard.	AVR1:0
R641	Open	Output voltage decreased. No hazard.	AVR1:decreased
R642	Open	Output voltage decreased. No hazard.	AVR1:decreased
R643	Open	Output voltage decreased. No hazard.	AVR1:decreased
R646	Open	Output voltage decreased. No hazard.	AVR1:decreased
R647	Open	Output voltage decreased. No hazard.	AVR1:decreased
R648	Open	Normal operation.	AVR1:*
R649	Open	No hazard.	AVR1:0
R650	Open	Output voltage decreased. No hazard.	AVR1:decreased
R651	Open	Output voltage decreased. No hazard.	AVR1:decreased
R652	Open	No hazard.	AVR1:0
R653	Open	Normal operation.	AVR1:*
R654	Open	Output voltage decreased. No hazard.	AVR1:decreased
R655	Open	Output voltage decreased. No hazard.	AVR1:decreased
R656	Open	Normal operation.	AVR1:*
R657	Open	Output voltage decreased. No hazard.	AVR1:decreased

## F M E A

Component	Mode	Comment	Output Voltage (V)
R658	Open	Output voltage decreased. No hazard.	AVR1:decreased
R659	Open	Output voltage decreased. No hazard.	AVR1:decreased
R661	Open	Output voltage decreased. No hazard.	AVR1:decreased
R662	Open	Output voltage decreased. No hazard.	AVR1:decreased
R664	Open	Output voltage decreased. No hazard.	AVR1:decreased
R665	Open	Output voltage decreased. No hazard.	AVR1:decreased
R666	Open	No hazard.	AVR1:0
R667	Open	Normal operation.	AVR1:*
R668	Open	No hazard.	AVR1:0
R669	Open	No hazard.	AVR1:0
R670	Open	Normal operation.	AVR1:*
R671	Open	Normal operation.	AVR1:*
R672	Open	Normal operation.	AVR1:*
R673	Open	Output voltage decreased. No hazard.	AVR1:decreased
R674	Open	Output voltage decreased. No hazard.	AVR1:decreased
R675	Open	Output voltage decreased. No hazard.	AVR1:decreased
R676	Open	Output voltage decreased. No hazard.	AVR1:decreased
R679	Open	Output voltage decreased. No hazard.	AVR1:decreased
R680	Open	Output voltage decreased. No hazard.	AVR1:decreased
R681	Open	Output voltage decreased. No hazard.	AVR1:decreased
R682	Open	Output voltage decreased. No hazard.	AVR1:decreased
R683	Open	No hazard.	AVR1:0
R684	Open	Normal operation.	AVR1:*
R685	Open	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R686	Open	Normal operation.	AVR1:**
R687	Open	Normal operation.	AVR1:**
R688	Open	Normal operation.	AVR1:**
R689	Open	Normal operation.	AVR1:**
R690	Open	Normal operation.	AVR1:**
R691	Open	Normal operation.	AVR1:**
R692	Open	Normal operation.	AVR1:**
R693	Open	Normal operation.	AVR1:**
R694	Open	Normal operation.	AVR1:**
R695	Open	Normal operation.	AVR1:**
R696	Open	Normal operation.	AVR1:**
R697	Open	Normal operation.	AVR1:**
R698	Open	No hazard.	AVR1:0
R699	Open	Normal operation.	AVR1:**
R701	Open	Normal operation.	AVR1:**
R702	Open	Normal operation.	AVR1:**
R706	Open	No hazard.	AVR1:0
R707	Open	Normal operation.	AVR1:**
R708	Open	Normal operation.	AVR1:**
R711	Open	No hazard.	AVR1:0
R712	Open	No hazard.	AVR1:0
R713	Open	No hazard.	AVR1:0
R714	Open	No hazard.	AVR1:0
R715	Open	Normal operation.	AVR1:**



## F M E A

Component	Mode	Comment	Output Voltage (V)
R716	Open	No hazard.	AVR1:0
R718	Open	No hazard.	AVR1:0
R719	Open	No hazard.	AVR1:0
R721	Open	No hazard.	AVR1:0
R722	Open	Normal operation.	AVR1:*
R723	Open	Normal operation.	AVR1:*
R724	Open	Normal operation.	AVR1:*
R725	Open	Normal operation.	AVR1:*
R726	Open	Normal operation.	AVR1:*
R727	Open	Normal operation.	AVR1:*
R728	Open	No hazard.	AVR1:0
R729	Open	Normal operation.	AVR1:*
R730	Open	No hazard.	AVR1:0
R731	Open	Output voltage decreased. No hazard.	AVR1:decreased
R733	Open	Normal operation.	AVR1:*
R734	Open	Output voltage decreased. No hazard.	AVR1:decreased
R735	Open	Normal operation.	AVR1:*
R736	Open	Output voltage decreased. No hazard.	AVR1:decreased
R737	Open	Output voltage decreased. No hazard.	AVR1:decreased
R738	Open	Normal operation.	AVR1:*
R739	Open	Normal operation.	AVR1:*
R740	Open	Output voltage decreased. No hazard.	AVR1:decreased
R741	Open	Normal operation.	AVR1:*
R742	Open	Normal operation.	AVR1:*

## F M E A

Component	Mode	Comment	Output Voltage (V)
R743	Open	Normal operation.	AVR1:*
R744	Open	Normal operation.	AVR1:*
R745	Open	See page 114.	
R746	Open	See page 114.	
R747	Open	No hazard.	AVR1:0
R748	Open	No hazard.	AVR1:0
R749	Open	No hazard.	AVR1:0
R750	Open	Normal operation.	AVR1:*
R751	Open	Normal operation.	AVR1:*
R752	Open	Normal operation.	AVR1:*
R753	Open	Normal operation.	AVR1:*
R754	Open	Normal operation.	AVR1:*
R757	Open	Normal operation.	AVR1:*
R760	Open	Normal operation.	AVR1:*
R761	Open	Normal operation.	AVR1:*
R762	Open	Normal operation.	AVR1:*
R763	Open	No hazard.	AVR1:0
R764	Open	Output voltage decreased. No hazard.	AVR1:decreased
R771	Open	Normal operation.	AVR1:*
R772	Open	Normal operation.	AVR1:*
R773	Open	Normal operation.	AVR1:*
R774	Open	Normal operation.	AVR1:*
R775	Open	Normal operation.	AVR1:*
R776	Open	Normal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R777	Open	Normal operation.	AVR1:**
R778	Open	Normal operation.	AVR1:**
R779	Open	Normal operation.	AVR1:**
R780	Open	Normal operation.	AVR1:**
R781	Open	Normal operation.	AVR1:**
R801	Open	Normal operation.	AVR1:**
R802	Open	Normal operation.	AVR1:**
R803	Open	Normal operation.	AVR1:**
R804	Open	Normal operation.	AVR1:**
R805	Open	Normal operation.	AVR1:**
R806	Open	Normal operation.	AVR1:**
R807	Open	Normal operation.	AVR1:**
R808	Open	Normal operation.	AVR1:**
R809	Open	Normal operation.	AVR1:**
R810	Open	No hazard.	AVR1:0
R811	Open	Normal operation.	AVR1:**
R812	Open	Normal operation.	AVR1:**
R813	Open	Normal operation.	AVR1:**
R814	Open	Normal operation.	AVR1:**
R815	Open	Normal operation.	AVR1:**
R816	Open	No hazard.	AVR1:0
R817	Open	No hazard.	AVR1:0
R818	Open	No hazard.	AVR1:0
R819	Open	Normal operation.	AVR1:**



## F M E A

Component	Mode		Comment	Output Voltage (V)
R820	Open		Normal operation.	AVR1:*
R821	Open		Normal operation.	AVR1:*
R822	Open		Normal operation.	AVR1:*
R823	Open		Normal operation.	AVR1:*
R828	Open		Normal operation.	AVR1:*
R829	Open		Normal operation.	AVR1:*
R830	Open		Normal operation.	AVR1:*
SCR101	Open	A	Normal operation.	AVR1:*
		K	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	A-K	F11, F12, F13 opened. No hazard.	AVR1:0
		A-G	F11, F12, F13 opened. No hazard.	AVR1:0
		K-G	Normal operation.	AVR1:*
SCR102	Open	A	Normal operation.	AVR1:*
		K	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	A-K	F11, F12, F13 opened. No hazard.	AVR1:0
		A-G	F11, F12, F13 opened. No hazard.	AVR1:0
		K-G	Normal operation.	AVR1:*
SS11	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	F11, F13 opened. No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
SS11	Short	1-3	F11, F13 opened. No hazard.	AVR1:0
		2-4	F11, F13 opened. No hazard.	AVR1:0
		3-4	F11, F13 opened. No hazard.	AVR1:0
SS12	Open	1	Normal operation.	AVR1:*
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
	Short	1-2	F12, F13 opened. No hazard.	AVR1:0
		1-3	F12, F13 opened. No hazard.	AVR1:0
		2-4	F12, F13 opened. No hazard.	AVR1:0
		3-4	F12, F13 opened. No hazard.	AVR1:0
SS101	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
	Short	1-2	F11, F12, F13 opened. No hazard.	AVR1:0
		2-3	F11, F12, F13 opened. No hazard.	AVR1:0
SS201	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
T201	Open	1	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0





## F M E A

Component	Mode		Comment	Output Voltage (V)
T201	Open	8	No hazard.	AVR1:0
		11	See page 114.	
		12	See page 114.	
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
	Short	1-3	See page 114.	
		4-5	See page 114.	
		5-6	See page 114.	
		7-8	See page 114.	
		11-12	See page 114.	
		13-14	See page 114.	
T301	Open	1	See page 114.	
		3	See page 114.	
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-3	See page 114.	
		3-7	Normal operation.	AVR1:*
		7-8	See page 115.	
T401	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	See page 115.	
		4	See page 115.	
		5	See page 115.	
		6	See page 115.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
T401	Open	7	See page 115.	
		8	See page 115.	
		9	See page 115.	
		10	See page 115.	
	Short	1-2	See page 115.	
		3-4	See page 115.	
		4-5	See page 115.	
		5-6	See page 115.	
		6-7	See page 115.	
		7-8	See page 115.	
		8-9	See page 115.	
		9-10	See page 115.	
TH101	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
TH102	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
TH103	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
TH104	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
TH105	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
TR101	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR101	Open	B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR102	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR103	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR105	Open	D	See page 115.	
		S	See page 115.	
		G	See page 115.	
	Short	D-S	See page 115.	
		S-G	See page 115.	
		G-D	See page 115.	
TR106	Open	D	See page 115.	
		S	See page 116.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR106	Open	G	See page 116.	
	Short	D-S	See page 116.	
		S-G	See page 116.	
		G-D	See page 116.	
TR107	Open	C	Normal operation.	AVR1:**
		E	Normal operation.	AVR1:**
		B	Normal operation.	AVR1:**
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:**
		B-C	Normal operation.	AVR1:**
TR108	Open	D	Normal operation.	AVR1:**
		S	Normal operation.	AVR1:**
		G	Normal operation.	AVR1:**
	Short	D-S	Normal operation.	AVR1:**
		S-G	Normal operation.	AVR1:**
		G-D	Normal operation.	AVR1:**
TR109	Open	D	Normal operation.	AVR1:**
		S	F11, F12, F13 opened. No hazard.	AVR1:0
		G	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	Normal operation.	AVR1:**
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR110	Open	D	Normal operation.	AVR1:**
		S	F11, F12, F13 opened. No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR110	Open	G	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	Normal operation.	AVR1:*
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR191	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR201	Open	D	See page 116.	
		S	See page 116.	
		G	See page 116.	
	Short	D-S	See page 116.	
		S-G	See page 116.	
		G-D	See page 116.	
TR202	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR203	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR203	Open	G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR291	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	See page 116.	
		S-G	Normal operation.	AVR1:*
		G-D	No hazard.	AVR1:0
TR292	Open	D	See page 116.	
		S	See page 116.	
		G	See page 116.	
	Short	D-S	Normal operation.	AVR1:*
		S-G	See page 116.	
		G-D	No hazard.	AVR1:0
TR301	Open	D	See page 116.	
		S	See page 116.	
		G	See page 116.	
	Short	D-S	See page 116.	
		S-G	See page 116.	
		G-D	See page 116.	
TR302	Open	D	See page 116.	
		S	See page 116.	



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR302	Open	G	See page 117.	
	Short	D-S	See page 117.	
		S-G	See page 117.	
		G-D	See page 117.	
TR303	Open	D	See page 117.	
		S	See page 117.	
		G	See page 117.	
	Short	D-S	See page 117.	
		S-G	See page 117.	
		G-D	See page 117.	
TR304	Open	D	See page 117.	
		S	See page 117.	
		G	See page 117.	
	Short	D-S	See page 117.	
		S-G	See page 117.	
		G-D	See page 117.	
TR305	Open	C	See page 117.	
		E	See page 117.	
		B	See page 117.	
	Short	C-E	F11, F12, F13 opened. No hazard.	AVR1:0
		E-B	See page 117.	
		B-C	See page 117.	
TR306	Open	C	F11, F12, F13 opened. No hazard.	AVR1:0
		E	F11, F12, F13 opened. No hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR306	Open	B	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	C-E	See page 117.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 117.	
TR307	Open	C	See page 117.	
		E	See page 118.	
		B	See page 118.	
	Short	C-E	F11, F12, F13 opened. No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR308	Open	C	F11, F12, F13 opened. No hazard.	AVR1:0
		E	F11, F12, F13 opened. No hazard.	AVR1:0
		B	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	C-E	See page 118.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 118.	
TR309	Open	C	Normal operation.	AVR1:*
		E	See page 118.	
		B	See page 118.	
	Short	C-E	F11, F12, F13 opened. No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR310	Open	C	F11, F12, F13 opened. No hazard.	AVR1:0
		E	F11, F12, F13 opened. No hazard.	AVR1:0





## F M E A

Component	Mode		Comment	Output Voltage (V)
TR310	Open	B	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	C-E	See page 118.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 118.	
TR311	Open	C	See page 118.	
		E	See page 118.	
		B	See page 118.	
	Short	C-E	F11, F12, F13 opened. No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR312	Open	C	F11, F12, F13 opened. No hazard.	AVR1:0
		E	F11, F12, F13 opened. No hazard.	AVR1:0
		B	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	C-E	See page 118.	
		E-B	Normal operation.	AVR1:*
		B-C	See page 118.	
TR314	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR501	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR501	Open	G	See page 118.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 118.	
		G-D	See page 118.	
TR502	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	See page 118.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 118.	
		G-D	See page 118.	
TR511	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	See page 118.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 118.	
		G-D	See page 118.	
TR512	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	See page 118.	
	Short	D-S	No hazard.	AVR1:0
		S-G	See page 118.	
		G-D	See page 119.	
TR521	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR521	Open	G	Normal operation.	AVR1:**
	Short	D-S	Normal operation.	AVR1:**
		S-G	Normal operation.	AVR1:**
		G-D	Normal operation.	AVR1:**
TR522	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:**
TR523	Open	C	Normal operation.	AVR1:**
		E	Normal operation.	AVR1:**
		B	Normal operation.	AVR1:**
	Short	C-E	See page 119.	
		E-B	Normal operation.	AVR1:**
		B-C	See page 119.	
TR524	Open	D	See page 119.	
		S	See page 119.	
		G	See page 119.	
	Short	D-S	Normal operation.	AVR1:**
		S-G	See page 119.	
		G-D	Normal operation.	AVR1:**
TR525	Open	D	See page 119.	
		S	See page 119.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR525	Open	G	See page 119.	
	Short	D-S	Normal operation.	AVR1:*
		S-G	See page 119.	
		G-D	Normal operation.	AVR1:*
TR526	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR527	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:*
TR528	Open	C	See page 119.	
		E	See page 119.	
		B	See page 119.	
	Short	C-E	Normal operation.	AVR1:*
		E-B	See page 119.	
		B-C	See page 119.	
TR531	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR531	Open	B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR532	Open	C	See page 119.	
		E	See page 119.	
		B	See page 119.	
	Short	C-E	See page 119.	
		E-B	See page 119.	
		B-C	See page 119.	
TR533	Open	D	See page 119.	
		S	See page 119.	
		G	See page 120.	
	Short	D-S	See page 120.	
		S-G	See page 120.	
		G-D	See page 120.	
TR601	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR602	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR602	Open	B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR603	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR605	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No hazard.	AVR1:0
TR606	Open	D	Output voltage decreased. No hazard.	AVR1:decreased
		S	Output voltage decreased. No hazard.	AVR1:decreased
		G	Output voltage decreased. No hazard.	AVR1:decreased
	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
TR607	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR607	Open	B	Normal operation.	AVR1:*
	Short	C-E	Normal operation.	AVR1:*
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR608	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR609	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:*
TR610	Open	S(1)	Normal operation.	AVR1:*
		G(2)	Normal operation.	AVR1:*
		D(3)	Normal operation.	AVR1:*
		S(4)	Normal operation.	AVR1:*
		G(5)	Normal operation.	AVR1:*
		D(6)	Normal operation.	AVR1:*
	Short	S-G(1-2)	Normal operation.	AVR1:*
		G-D(2-3)	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR610	Short	S-G(4-5)	Normal operation.	AVR1:*
		G-D(5-6)	Normal operation.	AVR1:*
TR611	Open	S(1)	Normal operation.	AVR1:*
		G(2)	No hazard.	AVR1:0
		D(3)	No hazard.	AVR1:0
		S(4)	Normal operation.	AVR1:*
		G(5)	Normal operation.	AVR1:*
		D(6)	Normal operation.	AVR1:*
	Short	S-G(1-2)	Normal operation.	AVR1:*
		G-D(2-3)	No hazard.	AVR1:0
		S-G(4-5)	Normal operation.	AVR1:*
		G-D(5-6)	No hazard.	AVR1:0
TR701	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR702	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	C-E	No hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR703	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*
TR704	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:*
TR705	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:*
TR706	Open	C	Output voltage increased. No hazard.	AVR1:increased
		E	Output voltage increased. No hazard.	AVR1:increased
		B	Output voltage increased. No hazard.	AVR1:increased
	Short	C-E	Output voltage increased. No hazard.	AVR1:increased
		E-B	Output voltage increased. No hazard.	AVR1:increased
		B-C	Output voltage increased. No hazard.	AVR1:increased

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR707	Open	C	Output voltage increased. No hazard.	AVR1:increased
		E	Output voltage increased. No hazard.	AVR1:increased
		B	Output voltage increased. No hazard.	AVR1:increased
	Short	C-E	Output voltage increased. No hazard.	AVR1:increased
		E-B	Output voltage increased. No hazard.	AVR1:increased
		B-C	Output voltage increased. No hazard.	AVR1:increased
TR708	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	Normal operation.	AVR1:*
		G-D	Output voltage decreased. No hazard.	AVR1:decreased
TR709	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:*
TR711	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	D-S	Normal operation.	AVR1:*
		S-G	Normal operation.	AVR1:*
		G-D	Normal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR712	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:*
TR713	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:*
TR801	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:*
TR803	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:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
VR701	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
VR801	Open	brush	No hazard.	AVR1:0
			No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
X101	Open	1	See page 120.	
		2	See page 120.	
		3	See page 120.	
		4	See page 120.	
	Short	1-2	See page 120.	
		3-4	Normal operation.	AVR1:*
ZD101	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0
ZD102	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
ZD103	Open		Normal operation.	AVR1:*
	Short		F11, F12, F13 opened. No hazard.	AVR1:0
ZD104	Open		Normal operation.	AVR1:*
	Short		F11, F12, F13 opened. No hazard.	AVR1:0
ZD105	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
ZD106	Open		Normal operation.	AVR1:*
	Short		F11, F12, F13 opened. No hazard.	AVR1:0



## F M E A

Component	Mode	Comment	Output Voltage (V)
ZD107	Open	Normal operation.	AVR1:*
	Short	F11, F12, F13 opened. No hazard.	AVR1:0
ZD191	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
ZD192	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
ZD501	Open	See page 120.	
	Short	Normal operation.	AVR1:*
ZD502	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD503	Open	See page 120.	
	Short	See page 120.	
ZD504	Open	See page 120.	
	Short	See page 120.	
ZD505	Open	See page 120.	
	Short	See page 120.	
ZD506	Open	See page 120.	
	Short	Normal operation.	AVR1:*
ZD511	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD512	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD513	Open	See page 120.	
	Short	See page 120.	



## F M E A

Component	Mode	Comment	Output Voltage (V)
ZD601	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
ZD602	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
ZD603	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD604	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD605	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD606	Open	Normal operation.	AVR1:*
	Short	Output voltage decreased. No hazard.	AVR1:decreased
ZD607	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD608	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD609	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
ZD610 (Except:48)	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:*
ZD801	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



## ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C11	Short	Normal operation.	AVR1:**
C12	Short	Normal operation.	AVR1:**
C13	Short	Normal operation.	AVR1:**
C14	Short	Normal operation.	AVR1:**
C15	Short	Normal operation.	AVR1:**
C16	Short	Normal operation.	AVR1:**
C20	Short	Normal operation.	AVR1:**
C21	Short	Normal operation.	AVR1:**
C22	Short	Normal operation.	AVR1:**
C24	Short	Normal operation.	AVR1:**
C25	Short	Normal operation.	AVR1:**
C105	Short	Normal operation.	AVR1:**
C106	Short	Normal operation.	AVR1:**
C110	Short	Normal operation.	AVR1:**
C111	Short	Normal operation.	AVR1:**
C112	Short	Normal operation.	AVR1:**
C113	Short	Normal operation.	AVR1:**
C126	Short	Normal operation.	AVR1:**
C127	Short	Normal operation.	AVR1:**
C161	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C162	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C163	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C164	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C165	Short	F11, F12, F13 opened. No hazard.	AVR1:0



## ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C166	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C167	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C168	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C169	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C170	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C171	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C172	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C173	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C174	Short	F11, F12, F13 opened. No hazard.	AVR1:0
C219	Short	No hazard.	AVR1:0
C228	Short	No hazard.	AVR1:0
C229	Short	No hazard.	AVR1:0
C291	Open	Normal operation.	AVR1:*
C315	Short	No hazard.	AVR1:0
C316	Short	No hazard.	AVR1:0
C321	Short	No hazard.	AVR1:0
C322	Short	No hazard.	AVR1:0
C335	Short	Normal operation.	AVR1:*
C336	Short	Normal operation.	AVR1:*
C337	Short	Normal operation.	AVR1:*
C338	Short	Normal operation.	AVR1:*
C339	Short	Normal operation.	AVR1:*
C340	Short	Normal operation.	AVR1:*
C341	Short	Normal operation.	AVR1:*





## ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C342	Short	Normal operation.	AVR1:*
C343	Short	Normal operation.	AVR1:*
C344	Short	Normal operation.	AVR1:*
C347	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C348	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C349	Short	No hazard.	AVR1:0
C350	Short	No hazard.	AVR1:0
C352	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C353	Short	No hazard.	AVR1:0
C354	Short	No hazard.	AVR1:0
C356	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
C357	Short	No hazard.	AVR1:0
C361	Short	No hazard.	AVR1:0
C381	Short	No hazard.	AVR1:0
C382	Short	No hazard.	AVR1:0
C508	Short	No hazard.	AVR1:0
C509	Short	No hazard.	AVR1:0
C511	Short	No hazard.	AVR1:0
C530	Short	Normal operation.	AVR1:*
C531	Short	Normal operation.	AVR1:*



## ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C532	Short	Normal operation.	AVR1:*
C533	Short	Normal operation.	AVR1:*
C534	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C535	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C541	Short	Normal operation.	AVR1:*
C542	Short	Normal operation.	AVR1:*
C547	Short	No hazard.	AVR1:0
C548	Short	No hazard.	AVR1:0
C561	Short	Normal operation.	AVR1:*
C701	Short	Normal operation.	AVR1:*
C702	Short	Normal operation.	AVR1:*
C719	Short	No hazard.	AVR1:0
C723	Short	No hazard.	AVR1:0
C725	Short	No hazard.	AVR1:0
D103	Open	No hazard.	AVR1:0
D105	Open	No hazard.	AVR1:0
D307	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D308	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0
D309	Open	No hazard.	AVR1:0
D310	Short	No hazard.	AVR1:0



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
D312	Short		No hazard.	AVR1:0
D313	Short		No hazard.	AVR1:0
D314	Short		No hazard.	AVR1:0
D315	Short		No hazard.	AVR1:0
D501	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
D502	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
D503	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
D504	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
D505	Open		No hazard.	AVR1:0
D507	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
D508	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
D509	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
D510	Open		Normal operation.	AVR1:**
	Short		Normal operation.	AVR1:**
IC301	Open	4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC301	Open	12	No hazard.	AVR1:0
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		17	No hazard.	AVR1:0
		18	No hazard.	AVR1:0
		19	No hazard.	AVR1:0
	Short	4-5	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	No hazard.	AVR1:0
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	No hazard.	AVR1:0
		18-19	No hazard.	AVR1:0
IC302	Open	4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	No hazard.	AVR1:0
		12	No hazard.	AVR1:0
		13	No hazard.	AVR1:0
		14	No hazard.	AVR1:0
		17	No hazard.	AVR1:0



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC302	Open	18	No hazard.	AVR1:0
		19	No hazard.	AVR1:0
	Short	4-5	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		6-7	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		12-13	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
		14-15	No hazard.	AVR1:0
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	No hazard.	AVR1:0
		18-19	No hazard.	AVR1:0
IC303	Open	19	No hazard.	AVR1:0
		20	No hazard.	AVR1:0
		21	No hazard.	AVR1:0
		22	No hazard.	AVR1:0
IC501	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC501	Open	10	Normal operation.	AVR1:*
		11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
		13	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
		4-5	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		10-11	Normal operation.	AVR1:*
		11-12	Normal operation.	AVR1:*
IC502	Open	2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
	Short	2-3	Normal operation.	AVR1:*
		3-4	Normal operation.	AVR1:*
IC604	Open	1	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
IC604	Short	3-4	No hazard.	AVR1:0
L301	Short		No hazard.	AVR1:0
PC201	Short	A-K	No hazard.	AVR1:0
		C-E	Normal operation.	AVR1:**
PC202	Short	A-K	No hazard.	AVR1:0
		C-E	No hazard.	AVR1:0
PC204	Open	A, K	Normal operation.	AVR1:**
		C, E	Normal operation.	AVR1:**
	Short	A-K	Normal operation.	AVR1:**
		C-E	Normal operation.	AVR1:**
PC205	Open	A, K	Normal operation.	AVR1:**
		C, E	Normal operation.	AVR1:**
	Short	A-K	Normal operation.	AVR1:**
		C-E	Normal operation.	AVR1:**
PC301	Short	A-K	No hazard.	AVR1:0
		C-E	No hazard.	AVR1:0
PC302	Short	A-K	Normal operation.	AVR1:**
		C-E	No hazard.	AVR1:0
R114	Open		No hazard.	AVR1:0
R120	Open		No hazard.	AVR1:0
R260	Open		Normal operation.	AVR1:**
R261	Open		Normal operation.	AVR1:**
R262	Open		Normal operation.	AVR1:**
R263	Open		Normal operation.	AVR1:**



## ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
R291	Open	Normal operation.	AVR1:*
R292	Open	Normal operation.	AVR1:*
R293	Open	Normal operation.	AVR1:*
R294	Open	Normal operation.	AVR1:*
R295	Open	Normal operation.	AVR1:*
R296	Open	Normal operation.	AVR1:*
R335	Open	No hazard.	AVR1:0
R336	Open	No hazard.	AVR1:0
R338	Open	No hazard.	AVR1:0
R340	Open	No hazard.	AVR1:0
R341	Open	No hazard.	AVR1:0
R342	Open	No hazard.	AVR1:0
R344	Open	No hazard.	AVR1:0
R345	Open	No hazard.	AVR1:0
R346	Open	No hazard.	AVR1:0
R348	Open	No hazard.	AVR1:0
R349	Open	No hazard.	AVR1:0
R351	Open	No hazard.	AVR1:0
R368	Open	No hazard.	AVR1:0
R370	Open	No hazard.	AVR1:0
R375	Open	No hazard.	AVR1:0
R378	Open	No hazard.	AVR1:0
R379	Open	No hazard.	AVR1:0
R380	Open	No hazard.	AVR1:0





## ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
R381	Open	Normal operation.	AVR1:*
R382	Open	Normal operation.	AVR1:*
R383	Open	No hazard.	AVR1:0
R384	Open	No hazard.	AVR1:0
R385	Open	No hazard.	AVR1:0
R386	Open	No hazard.	AVR1:0
R389	Open	No hazard.	AVR1:0
R414	Open	Normal operation.	AVR1:*
R418	Open	No hazard.	AVR1:0
R419	Open	No hazard.	AVR1:0
R420	Open	Normal operation.	AVR1:*
R503	Open	Normal operation.	AVR1:*
R504	Open	Normal operation.	AVR1:*
R515	Open	Normal operation.	AVR1:*
R516	Open	Normal operation.	AVR1:*
R534	Open	No hazard.	AVR1:0
R536	Open	No hazard.	AVR1:0
R537	Open	No hazard.	AVR1:0
R541	Open	No hazard.	AVR1:0
R554	Open	Normal operation.	AVR1:*
R555	Open	Normal operation.	AVR1:*
R556	Open	Normal operation.	AVR1:*
R557	Open	Normal operation.	AVR1:*
R558	Open	Normal operation.	AVR1:*



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
R559	Open		Normal operation.	AVR1:*
R560	Open		Normal operation.	AVR1:*
R561	Open		No hazard.	AVR1:0
R562	Open		No hazard.	AVR1:0
R563	Open		No hazard.	AVR1:0
R564	Open		Normal operation.	AVR1:*
R568	Open		Normal operation.	AVR1:*
R574	Open		No hazard.	AVR1:0
R575	Open		Normal operation.	AVR1:*
R591	Open		Normal operation.	AVR1:*
R592	Open		Normal operation.	AVR1:*
R745	Open		Normal operation.	AVR1:*
R746	Open		Normal operation.	AVR1:*
T201	Open	11	Normal operation.	AVR1:*
		12	Normal operation.	AVR1:*
	Short	1-3	No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
		11-12	No hazard.	AVR1:0
		13-14	No hazard.	AVR1:0
T301	Open	1	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
	Short	1-3	No hazard.	AVR1:0



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
T301	Short	7-8	No hazard.	AVR1:0
T401	Open	3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	Normal operation.	AVR1:*
		7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
	Short	1-2	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.	AVR1:0
		7-8	No hazard.	AVR1:0
		8-9	No hazard.	AVR1:0
		9-10	No hazard.	AVR1:0
TR105	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR106	Open	D	No hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR106	Open	S	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR201	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
TR291	Short	D-S	Normal operation.	AVR1:*
TR292	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	S-G	Normal operation.	AVR1:*
TR301	Open	D	F11, F12, F13 opened. No hazard.	AVR1:0
		S	F11, F12, F13 opened. No hazard.	AVR1:0
		G	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	F11, F12, F13 opened. No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR302	Open	D	F11, F12, F13 opened. No hazard.	AVR1:0
		S	F11, F12, F13 opened. No hazard.	AVR1:0



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR302	Open	G	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	F11, F12, F13 opened. No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR303	Open	D	F11, F12, F13 opened. No hazard.	AVR1:0
		S	F11, F12, F13 opened. No hazard.	AVR1:0
		G	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	F11, F12, F13 opened. No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR304	Open	D	F11, F12, F13 opened. No hazard.	AVR1:0
		S	F11, F12, F13 opened. No hazard.	AVR1:0
		G	F11, F12, F13 opened. No hazard.	AVR1:0
	Short	D-S	F11, F12, F13 opened. No hazard.	AVR1:0
		S-G	F11, F12, F13 opened. No hazard.	AVR1:0
		G-D	F11, F12, F13 opened. No hazard.	AVR1:0
TR305	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR306	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR307	Open	C	No hazard.	AVR1:0

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR307	Open	E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
TR308	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR309	Open	E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
TR310	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR311	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
TR312	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR501	Open	G	Normal operation.	AVR1:**
	Short	S-G	Normal operation.	AVR1:**
		G-D	Normal operation.	AVR1:**
TR502	Open	G	Normal operation.	AVR1:**
	Short	S-G	Normal operation.	AVR1:**
		G-D	Normal operation.	AVR1:**
TR511	Open	G	Normal operation.	AVR1:**
	Short	S-G	Normal operation.	AVR1:**
		G-D	Normal operation.	AVR1:**
TR512	Open	G	Normal operation.	AVR1:**
	Short	S-G	Normal operation.	AVR1:**



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR512	Short	G-D	Normal operation.	AVR1:*
TR523	Short	C-E	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR524	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	S-G	Normal operation.	AVR1:*
TR525	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Normal operation.	AVR1:*
	Short	S-G	Normal operation.	AVR1:*
TR528	Open	C	No hazard.	AVR1:0
		E	No hazard.	AVR1:0
		B	No hazard.	AVR1:0
	Short	E-B	No hazard.	AVR1:0
		B-C	No hazard.	AVR1:0
TR532	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:*
TR533	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*



## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR533	Open	G	No hazard.	AVR1:0
	Short	D-S	No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	No hazard.	AVR1:0
X101	Open	1	Normal operation.	AVR1:*
		2	Normal operation.	AVR1:*
		3	Normal operation.	AVR1:*
		4	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
ZD501	Open		No hazard.	AVR1:0
ZD503	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
ZD504	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
ZD505	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
ZD506	Open		No hazard.	AVR1:0
ZD513	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*