

ABNORMAL TEST RESULT

OF MODEL CQS24

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 : 2/32 ~ 29/32)

(Abnormal Test Result: 30/32 ~ 32/32)

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

F M E A

Component	Mode	Comment	Output Voltage (V)
C101	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C102	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C103	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C104	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C105	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C106	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0[V]
C107	Open	Normal operation.	
	Short	See 30 Page.	
C108	Open	Normal operation.	
	Short	Normal operation.	
C109	Open	Normal operation.	
	Short	Normal operation.	
C110	Open	Normal operation.	
	Short	Normal operation.	
C151	Open	Normal operation.	
	Short	Normal operation.	
C152	Open	Normal operation.	
	Short	See 30 Page.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C153	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
C154	Open	Normal operation.	
	Short	Normal operation.	
C201	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C203	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C204	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C205	Open	Normal operation.	
	Short	See 30 Page.	
C206	Open	No Hazard.	AVR1:0[V]
	Short	See 30 Page.	
C207	Open	Normal operation.	
	Short	Normal operation.	
C210	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C251	Open	Normal operation.	
	Short	Normal operation.	
C252	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C253	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
C254	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C255	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C256	Open		Normal operation.	
	Short		Normal operation.	
C302	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C303	Open		Normal operation.	
	Short		Normal operation.	
C304	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	
C311	Open		Normal operation.	
	Short		Normal operation.	
C351	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C352	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Normal operation.	
C353	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C354	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C503	Open	except 033	Normal operation.	
	Short	except 033	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C504	Open	except 033	Normal operation.	
	Short	except 033	Normal operation.	
C505	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C506	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C507	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C508	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C509	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C511	Open	except 033	Normal operation.	
	Short	except 033	Normal operation.	
C512	Open	except 033	Normal operation.	
	Short	except 033	Normal operation.	
C513	Open	except 033	Normal operation.	
	Short	except 033	Normal operation.	
C514	Open	except 033	Normal operation.	
	Short	except 033	Normal operation.	
C515	Open	except 033	Normal operation.	
	Short	except 033	Normal operation.	
C516	Open	except 033	Normal operation.	
	Short	except 033	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C601	Open		Normal operation.	
	Short		See 30 Page.	
C602	Open		Normal operation.	
	Short		See 30 Page.	
C603	Open		Normal operation.	
	Short		Normal operation.	
C604	Open		Normal operation.	
	Short		Normal operation.	
C607	Open	only 120, 150	Normal operation.	
	Short	only 120, 150	Normal operation.	
C608	Open	only 120, 150	Normal operation.	
	Short	only 120, 150	Normal operation.	
C609	Open	only 120, 150	No Hazard.	AVR1:0[V]
	Short	only 120, 150	Normal operation.	
C610	Open	only 120, 150	No Hazard.	AVR1:0[V]
	Short	only 120, 150	Normal operation.	
C611	Open	only 120, 150	Normal operation.	
	Short	only 120, 150	No Hazard.	AVR1:0[V]
C701	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
C702	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]
C703	Open		Normal operation.	
	Short		See 30 Page.	

F M E A

Component	Mode	Comment	Output Voltage (V)
C704	Open	No Hazard.	AVR1:0[V]
	Short	Normal operation.	
C706	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C707	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C708	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C709	Open	Normal operation.	
	Short	Normal operation.	
C710	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C712	Open	Normal operation.	
	Short	Output voltage increased. No hazard.	
C713	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C714	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
C717	Open	Normal operation.	
	Short	Normal operation.	
C718	Open	Normal operation.	
	Short	Normal operation.	
C721	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
D101	Open	See 30 Page.	
	Short	Normal operation.	
D151	Open	Normal operation.	
	Short	Normal operation.	
D152	Open	Normal operation.	
	Short	Normal operation.	
D153	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
D154	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
D201	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
D202	Open	No Hazard.	AVR1:0[V]
	Short	Normal operation.	
D203	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
D251	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
D252	Open	Normal operation.	
	Short	Normal operation.	
D301	Open	Normal operation.	
	Short	Normal operation.	
D351	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D601	Open		Normal operation.	
	Short		Normal operation.	
D602	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
D603	Open		See 30 Page.	
	Short		See 30 Page.	
D604	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
D605	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
D606	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
D607	Open	except 033	Normal operation.	
	Short	except 033	No Hazard.	AVR1:0[V]
D608	Open	only 050	See 30 Page.	
	Short	only 050	See 30 Page.	
D609	Open	only 120,150	Normal operation.	
	Short	only 120,150	Normal operation.	
D610	Open		Normal operation.	
	Short		Normal operation.	
D611	Open	only 120,150	No Hazard.	AVR1:0[V]
	Short	only 120,150	Normal operation.	
D702	Open		No Hazard.	AVR1:0[V]
	Short		Output voltage decreased. No hazard.	AVR1:decreased

F M E A

Component	Mode		Comment	Output Voltage (V)
D705	Open		Normal operation.	
	Short		Normal operation.	
D706	Open		Normal operation.	
	Short		Normal operation.	
IC201	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
		6	No Hazard.	AVR1:0[V]
		7	No Hazard.	AVR1:0[V]
		8	Normal operation.	
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		3-4	No Hazard.	AVR1:0[V]
		5-6	No Hazard.	AVR1:0[V]
		6-7	No Hazard.	AVR1:0[V]
		7-8	Normal operation.	
IC251	Open	1	Normal operation.	
		2	Normal operation.	
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	Normal operation.	
	Short	1-2	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC251	Short	2-3	Normal operation.	
		4-5	No Hazard.	AVR1:0[V]
IC701	Open	1	Normal operation.	
		2	Normal operation.	
		3	Normal operation.	
		4	Normal operation.	
		5	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	No Hazard.	AVR1:0[V]
		4-5	Normal operation.	
IC702	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	No Hazard.	AVR1:0[V]
	Short	1-2	No Hazard.	AVR1:0[V]
		2-3	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
IC703	Open	1	Normal operation.	
		2	Normal operation.	
		3	No Hazard.	AVR1:0[V]
		4	No Hazard.	AVR1:0[V]
		5	Normal operation.	
	Short	1-2	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC703	Short	2-3	No Hazard.	AVR1:0[V]
		4-5	No Hazard.	AVR1:0[V]
L101	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	
L151	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
PC201	Open	A, K	No Hazard.	AVR1:0[V]
		C, E	No Hazard.	AVR1:0[V]
	Short	A-K	No Hazard.	AVR1:0[V]
		C-E	No Hazard.	AVR1:0[V]
PC301	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	AVR1:0[V]
PTH301	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	
T102	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]
		3	Normal operation.	
		4	Normal operation.	
	Short	1-2	Normal operation.	
		3-4	Normal operation.	
T103	Open	1	No Hazard.	AVR1:0[V]
		2	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
T103	Open	3	Normal operation.	
		4	Normal operation.	
	Short	1-2	Normal operation.	
		3-4	Normal operation.	
TR101	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR102	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR103	Open	D	See 30 Page.	
		S	See 30 Page.	
		G	See 30 Page.	
	Short	D-S	See 30 Page.	
		S-G	See 30 Page.	
		G-D	See 30 Page.	
TR104	Open	D	See 30 Page.	
		S	See 30 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR104	Open	G	See 30 Page.	
	Short	D-S	See 30 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR151	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	See 31 Page.	
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0[V]
TR152	Open	C6	Normal operation.	
		E1	Normal operation.	
		B2	Normal operation.	
		C3	Normal operation.	
		E4	Normal operation.	
		B5	Normal operation.	
	Short	C6-E1	No Hazard.	AVR1:0[V]
		E1-B2	Normal operation.	
		B2-C6	No Hazard.	AVR1:0[V]
		C3-E4	No Hazard.	AVR1:0[V]
		E4-B5	Normal operation.	
		B5-C3	No Hazard.	AVR1:0[V]
TR153	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR153	Open	B	No Hazard.	AVR1:0[V]
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0[V]
		B-C	Normal operation.	
TR154	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR201	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	Normal operation.	
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR202	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0[V]
TR203	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR203	Open	B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0[V]
TR204	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR251	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR252	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR253	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR253	Open	B	No Hazard.	AVR1:0[V]
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR254	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	Normal operation.	
TR303	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0[V]
TR304	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0[V]
TR306	Open	D	Normal operation.	
		S	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR306	Open	G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR308	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	
		G-D	No Hazard.	AVR1:0[V]
TR310	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	
		G-D	No Hazard.	AVR1:0[V]
TR311	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	Normal operation.	
TR312	Open	D	Normal operation.	
		S	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR312	Open	G	Normal operation.	
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	Normal operation.	
		G-D	No Hazard.	AVR1:0[V]
TR351	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR352	Open	C	No Hazard.	AVR1:0[V]
		E	Normal operation.	
		B	No Hazard.	AVR1:0[V]
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR501	Open	D	See 31 Page.	
		S	See 31 Page.	
		G	See 31 Page.	
	Short	D-S	See 31 Page.	AVR1:0[V]
		S-G	See 31 Page.	AVR1:0[V]
		G-D	See 31 Page.	AVR1:0[V]
TR502	Open	D	See 31 Page.	AVR1:0[V]
		S	See 31 Page.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR502	Open	G	See 31 Page.	AVR1:0[V]
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR503	Open	D	See 31 Page.	AVR1:0[V]
		S	See 31 Page.	AVR1:0[V]
		G	See 31 Page.	AVR1:0[V]
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR504	Open	D only 033	See 32 Page.	AVR1:0[V]
		S only 033	See 32 Page.	AVR1:0[V]
		G only 033	See 32 Page.	AVR1:0[V]
	Short	D-S only 033	See 31 Page.	
		S-G only 033	See 31 Page.	
		G-D only 033	See 31 Page.	
TR505	Open	D	See 32 Page.	AVR1:0[V]
		S	See 32 Page.	AVR1:0[V]
		G	See 32 Page.	AVR1:0[V]
	Short	D-S	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR506	Open	D	See 32 Page.	AVR1:0[V]
		S	See 32 Page.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR506	Open	G	See 32 Page.	AVR1:0[V]
	Short	7	See 31 Page.	
		S-G	See 31 Page.	
		G-D	See 31 Page.	
TR507	Open	D except 120, 150	See 32 Page.	AVR1:0[V]
		D except 120, 150	See 32 Page.	AVR1:0[V]
		D except 120, 150	See 32 Page.	AVR1:0[V]
	Short	D-S except 120, 150	See 31 Page.	
		S-G except 120, 150	See 31 Page.	
		G-D except 120, 150	See 31 Page.	
TR508	Open	D only 033	See 31 Page.	AVR1:0[V]
		S only 033	See 31 Page.	AVR1:0[V]
		G only 033	See 31 Page.	AVR1:0[V]
	Short	D-S only 033	See 32 Page.	
		S-G only 033	See 32 Page.	
		G-D only 033	See 32 Page.	
TR601	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR602	Open	D	Normal operation.	
		S	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR602	Open	G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR603	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	Normal operation.	
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	See 32 Page.	
TR604	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	See 32 Page.	
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR605	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	See 32 Page.	
TR701	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR701	Open	B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
TR703	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0[V]
TR704	Open	C	No Hazard.	AVR1:0[V]
		E	No Hazard.	AVR1:0[V]
		B	No Hazard.	AVR1:0[V]
	Short	C-E	No Hazard.	AVR1:0[V]
		E-B	No Hazard.	AVR1:0[V]
		B-C	No Hazard.	AVR1:0[V]
ZD151	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	
ZD152	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	
ZD153	Open		No Hazard.	AVR1:0[V]
	Short		Normal operation.	
ZD201	Open		Normal operation.	
	Short		No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD251	Open	Normal operation.	
	Short	Normal operation.	
ZD252	Open	No Hazard.	AVR1:0[V]
	Short	Normal operation.	
ZD254	Open	Normal operation.	
	Short	Normal operation.	
ZD302	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
ZD601	Open	Normal operation.	
	Short	No Hazard.	AVR1:0[V]
ZD602	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
ZD603	Open	Normal operation.	
	Short	Normal operation.	
ZD701	Open	No Hazard.	AVR1:0[V]
	Short	No Hazard.	AVR1:0[V]
R101	Open	No Hazard.	AVR1:0[V]
R102	Open	See 31 Page.	AVR1:0[V]
R103	Open	Normal operation.	
R104	Open	No Hazard.	AVR1:0[V]
R105	Open	No Hazard.	AVR1:0[V]
R106	Open	No Hazard.	AVR1:0[V]
R108	Open	No Hazard.	AVR1:0[V]
R109	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R110	Open	Normal operation.	
R151	Open	Normal operation.	
R152	Open	Normal operation.	
R153	Open	Normal operation.	
R154	Open	Normal operation.	
R155	Open	Normal operation.	
R156	Open	Normal operation.	
R157	Open	Normal operation.	
R158	Open	Normal operation.	
R159	Open	Normal operation.	
R160	Open	Normal operation.	
R161	Open	Normal operation.	
R162	Open	Normal operation.	
R163	Open	No Hazard.	AVR1:0[V]
R164	Open	Normal operation.	
R201	Open	No Hazard.	AVR1:0[V]
R202	Open	No Hazard.	AVR1:0[V]
R203	Open	Normal operation.	
R204	Open	Normal operation.	
R206	Open	Normal operation.	
R207	Open	No Hazard.	AVR1:0[V]
R208	Open	No Hazard.	AVR1:0[V]
R209	Open	No Hazard.	AVR1:0[V]
R210	Open	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
R211	Open	No Hazard.	AVR1:0[V]
R213	Open	No Hazard.	AVR1:0[V]
R214	Open	Normal operation.	
R215	Open	Normal operation.	
R216	Open	Normal operation.	
R217	Open	No Hazard.	AVR1:0[V]
R251	Open	Normal operation.	
R252	Open	No Hazard.	AVR1:0[V]
R253	Open	Normal operation.	
R254	Open	No Hazard.	AVR1:0[V]
R255	Open	No Hazard.	AVR1:0[V]
R257	Open	Normal operation.	
R258	Open	Normal operation.	
R259	Open	Normal operation.	
R260	Open	No Hazard.	AVR1:0[V]
R261	Open	Normal operation.	
R262	Open	Normal operation.	
R305	Open	Normal operation.	
R306	Open	Normal operation.	
R307	Open	No Hazard.	AVR1:0[V]
R308	Open	Normal operation.	
R310	Open	Normal operation.	
R311	Open	Normal operation.	
R312	Open	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R313	Open		Normal operation.	
R351	Open		Output voltage decreased. No hazard.	AVR1:decreased
R352	Open		Normal operation.	
R353	Open		Output voltage decreased. No hazard.	AVR1:decreased
R354	Open		Output voltage decreased. No hazard.	AVR1:decreased
R355	Open		Output voltage decreased. No hazard.	AVR1:decreased
R356	Open		Output voltage decreased. No hazard.	AVR1:decreased
R357	Open		Output voltage decreased. No hazard.	AVR1:decreased
R358	Open		Normal operation.	
R359	Open		Output voltage decreased. No hazard.	AVR1:decreased
R360	Open		Output voltage decreased. No hazard.	AVR1:decreased
R361	Open		Output voltage decreased. No hazard.	AVR1:decreased
R362	Open		Output voltage decreased. No hazard.	AVR1:decreased
R363	Open		Normal operation.	
R364	Open		Normal operation.	
R501	Open		Normal operation.	
R503	Open	except 033	Normal operation.	
R504	Open		Normal operation.	
R511	Open	except 033	Normal operation.	
R512	Open	except 033	Normal operation.	
R513	Open	except 033	Normal operation.	
R601	Open		Normal operation.	
R602	Open		Normal operation.	
R603	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R604	Open	Normal operation.	
R605	Open	Normal operation.	
R606	Open	No Hazard.	AVR1:0[V]
R607	Open	Normal operation.	
R608	Open	Normal operation.	
R609	Open	No Hazard.	AVR1:0[V]
R701	Open	No Hazard.	AVR1:0[V]
R702	Open	Normal operation.	
R703	Open	Normal operation.	
R707	Open	Normal operation.	
R709	Open	No Hazard.	AVR1:0[V]
R710	Open	Normal operation.	
R711	Open	Normal operation.	
R712	Open	No Hazard.	AVR1:0[V]
R713	Open	No Hazard.	AVR1:0[V]
R714	Open	Normal operation.	
R715	Open	Normal operation.	
R716	Open	No Hazard.	AVR1:0[V]
R717	Open	Normal operation.	
R718	Open	No Hazard.	AVR1:0[V]
R719	Open	No Hazard.	AVR1:0[V]
R720	Open	No Hazard.	AVR1:0[V]
R722	Open	No Hazard.	AVR1:0[V]
R723	Open	No Hazard.	AVR1:0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
R724	Open	Output voltage increased. No hazard.	
R725	Open	No Hazard.	AVR1:0[V]
R726	Open	Normal operation.	
R727	Open	No Hazard.	AVR1:0[V]
R728	Open	Normal operation.	
R729	Open	No Hazard.	AVR1:0[V]
R733	Open	Normal operation.	
R734	Open	Normal operation.	
R735	Open	Normal operation.	
R736	Open	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C107	Short		No Hazard.	AVR1:0[V]
C152	Short		No Hazard.	AVR1:0[V]
C205	Short		No Hazard.	AVR1:0[V]
C206	Short		No Hazard.	AVR1:0[V]
C601	Short		No Hazard.	AVR1:0[V]
C602	Short		No Hazard.	AVR1:0[V]
C703	Short		No Hazard.	AVR1:0[V]
D101	Open		No Hazard.	AVR1:0[V]
D603	Open		No Hazard.	AVR1:0[V]
	Short		No Hazard.	AVR1:0[V]
D608	Open	only 050	No Hazard.	AVR1:0[V]
	Short	only 050	No Hazard.	AVR1:0[V]
D611	Open	only 120	Normal operation	
	Short	only 120	No Hazard.	AVR1:0[V]
TR103	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	External Fuse opened, No hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	External Fuse opened, No hazard.	AVR1:0[V]
TR104	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
	Short	D-S	External Fuse opened, No hazard.	AVR1:0[V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR104	Short	S-G	No Hazard.	AVR1:0[V]
		G-D	External Fuse opened, No hazard.	AVR1:0[V]
TR151	Short	C-E	No Hazard.	AVR1:0[V]
TR501	Open	D	No Hazard.	AVR1:0[V]
		S	No Hazard.	AVR1:0[V]
		G	No Hazard.	AVR1:0[V]
TR502	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR503	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR504	Short	D-S only 033	No Hazard.	AVR1:0[V]
		S-G only 033	No Hazard.	AVR1:0[V]
		G-D only 033	No Hazard.	AVR1:0[V]
TR505	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR506	Short	D-S	No Hazard.	AVR1:0[V]
		S-G	No Hazard.	AVR1:0[V]
		G-D	No Hazard.	AVR1:0[V]
TR507	Short	D-S except 120, 150	No Hazard.	AVR1:0[V]
		S-G except 120, 150	No Hazard.	AVR1:0[V]
		G-D except 120, 150	No Hazard.	AVR1:0[V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR508	Short	D-S only 033	No Hazard.	AVR1:0[V]
		S-G only 033	No Hazard.	AVR1:0[V]
		G-D only 033	No Hazard.	AVR1:0[V]
TR603	Short	G-D	No Hazard.	AVR1:0[V]
TR604	Short	D-S	No Hazard.	AVR1:0[V]
TR605	Short	G-D	No Hazard.	AVR1:0[V]
R102	Open		No Hazard.	AVR1:0[V]