

## ABNORMAL TEST RESULT

## OF MODEL CES24

1. Did Cheese Cloth or Paper Glow?

No.

2. Did Ground Fuse Open?

No.

3. Dielectric breakdown?

No.

4. Other Results?

See the following pages .

( FMEA : 2/29 ~ 25/29)

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

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

## F M E A

Component	Mode	Comment	Output Voltage (V)
C101	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	0[V]
C102	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	0[V]
C103	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	0[V]
C107	Open	Normal operation.	
	Short	See 26 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.	
C153	Open	Normal operation.	
	Short	See 26 Page.	
C154	Open	Normal operation.	
	Short	Normal operation.	
C155	Open	Normal operation.	
	Short	Normal operation.	
C201	Open	Normal operation.	
	Short	No Hazard.	0[V]

F M E A

Component	Mode	Comment	Output Voltage (V)
C202	Open	Normal operation.	
	Short	No Hazard.	0[V]
C203	Open	See 26 Page.	
	Short	No Hazard.	0[V]
C204	Open	Normal operation.	
	Short	No Hazard.	0[V]
C205	Open	Normal operation.	
	Short	See 26 Page.	
C206	Open	No Hazard.	0[V]
	Short	See 26 Page.	
C207	Open	Normal operation.	
	Short	Normal operation.	
C210	Open	Normal operation.	
	Short	No Hazard.	0[V]
C251	Open	Normal operation.	
	Short	Normal operation.	
C252	Open	Normal operation.	
	Short	See 26 Page.	
C253	Open	Normal operation.	
	Short	No Hazard.	0[V]
C255	Open	Normal operation.	
	Short	Normal operation.	
C302	Open	No Hazard.	0[V]
	Short	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
C303	Open		Normal operation.	
	Short		Normal operation.	
C304	Open		No Hazard.	0[V]
	Short		Normal operation.	
C311	Open		Normal operation.	
	Short		Normal operation.	
C351	Open		Output voltage decreased. No hazard.	Decreased
	Short		Output voltage decreased. No hazard.	Decreased
C352	Open		Output voltage decreased. No hazard.	Decreased
	Short		Normal operation.	
C354	Open		Output voltage decreased. No hazard.	Decreased
	Short		Output voltage decreased. No hazard.	Decreased
C503	Open	only 120, 150	Normal operation.	
	Short	only 120, 150	Normal operation.	
C504	Open	only 120, 150	Normal operation.	
	Short	only 120, 150	Normal operation.	
C505	Open		Normal operation.	
	Short		No Hazard.	0[V]
C506	Open		Normal operation.	
	Short		No Hazard.	0[V]
C507	Open		Normal operation.	
	Short		No Hazard.	0[V]
C508	Open		Normal operation.	
	Short		No Hazard.	0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
C601	Open		Normal operation.	
	Short		See 26 Page.	
C602	Open		Normal operation.	
	Short		See 26 Page.	
C603	Open		See 26 Page.	
	Short		Normal operation.	
C604	Open		See 26 Page.	
	Short		Normal operation.	
C606	Open	except 033	Normal operation.	
	Short	except 033	See 26 Page.	
C609	Open	only 120, 150	See 26 Page.	
	Short	only 120, 150	See 26 Page.	
C610	Open	only 120, 150	Normal operation.	
	Short	only 120, 150	No Hazard.	0[V]
C701	Open		Normal operation.	
	Short		See 26 Page.	
C702	Open		Normal operation.	
	Short		No Hazard.	0[V]
C703	Open		Normal operation.	
	Short		See 26 Page.	
C704	Open		No Hazard.	0[V]
	Short		Normal operation.	
C706	Open		Normal operation.	
	Short		No Hazard.	0[V]

## F M E A

Component	Mode	Comment	Output Voltage (V)
C707	Open	Normal operation.	
	Short	No Hazard.	0[V]
C708	Open	Normal operation.	
	Short	No Hazard.	0[V]
C709	Open	See 26 Page.	
	Short	See 26 Page.	
C710	Open	See 26 Page.	
	Short	No Hazard.	0[V]
C712	Open	Normal operation.	
	Short	See 26 Page.	
C713	Open	Normal operation.	
	Short	No Hazard.	0[V]
C714	Open	Normal operation.	
	Short	No Hazard.	0[V]
C717	Open	Normal operation.	
	Short	Normal operation.	
C718	Open	Normal operation.	
	Short	Normal operation.	
C721	Open	Normal operation.	
	Short	No Hazard.	0[V]
D101	Open	See 26 Page.	
	Short	Normal operation.	
D151	Open	Normal operation.	
	Short	Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
D152	Open	No Hazard.	0[V]
	Short	Normal operation.	
D153	Open	No Hazard.	0[V]
	Short	No Hazard.	0[V]
D154	Open	No Hazard.	0[V]
	Short	No Hazard.	0[V]
D201	Open	Normal operation.	
	Short	Normal operation.	
D202	Open	No Hazard.	0[V]
	Short	Normal operation.	
D203	Open	Normal operation.	
	Short	No Hazard.	0[V]
D251	Open	Normal operation.	
	Short	No Hazard.	0[V]
D252	Open	Normal operation.	
	Short	Normal operation.	
D351	Open	Output voltage decreased. No hazard.	Decreased
	Short	Normal operation.	
D352	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	Decreased
D601	Open	Normal operation.	
	Short	Normal operation.	
D602	Open	No Hazard.	0[V]
	Short	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
D603	Open	except 120, 150	See 26 Page.	
	Short	except 120, 150	See 26 Page.	
	Open	only 120, 150	Normal operation.	
	Short	only 120, 150	No Hazard.	0[V]
D604	Open		No Hazard.	0[V]
	Short		No Hazard.	0[V]
D605	Open		No Hazard.	0[V]
	Short		No Hazard.	0[V]
D606	Open		Normal operation.	
	Short		No Hazard.	0[V]
D607	Open		Normal operation.	
	Short		Normal operation.	
D608	Open	only 120, 150	No Hazard.	0[V]
	Short	only 120, 150	Normal operation.	
D609	Open	only 120, 150	No Hazard.	0[V]
	Short	only 120, 150	Normal operation.	
D610	Open	only 120, 150	No Hazard.	0[V]
	Short	only 120, 150	No Hazard.	0[V]
D701	Open		No Hazard.	0[V]
	Short		No Hazard.	0[V]
D705	Open		Normal operation.	
	Short		See 26 Page.	
D706	Open		See 26 Page.	
	Short		See 27 Page.	



F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	1	No Hazard.	0[V]
		2	No Hazard.	0[V]
		3	No Hazard.	0[V]
		4	No Hazard.	0[V]
		5	No Hazard.	0[V]
		6	No Hazard.	0[V]
		7	No Hazard.	0[V]
		8	Normal operation.	
	Short	1-2	No Hazard.	0[V]
		2-3	No Hazard.	0[V]
		3-4	No Hazard.	0[V]
		5-6	No Hazard.	0[V]
		6-7	No Hazard.	0[V]
		7-8	Normal operation.	
IC251	Open	1	Normal operation.	
		2	Normal operation.	
		3	No Hazard.	0[V]
		4	No Hazard.	0[V]
		5	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		4-5	No Hazard.	0[V]
IC701	Open	1	Normal operation.	
		2	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC701	Open	3	Normal operation.	
		4	Normal operation.	
		5	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	No Hazard.	0[V]
		4-5	Normal operation.	
IC702	Open	1	No Hazard.	0[V]
		2	No Hazard.	0[V]
		3	No Hazard.	0[V]
		4	No Hazard.	0[V]
		5	No Hazard.	0[V]
	Short	1-2	No Hazard.	0[V]
		2-3	No Hazard.	0[V]
		4-5	No Hazard.	0[V]
IC703	Open	1	Normal operation.	
		2	Normal operation.	
		3	No Hazard.	0[V]
		4	No Hazard.	0[V]
		5	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	No Hazard.	0[V]
		3-4	No Hazard.	0[V]
		4-5	No Hazard.	0[V]
L101	Open		No Hazard.	0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
L101	Short		Normal operation.	
L151	Open		No Hazard.	0[V]
	Short		No Hazard.	0[V]
PC201	Open	A, K	No Hazard.	0[V]
		C, E	No Hazard.	0[V]
	Short	A-K	No Hazard.	0[V]
		C-E	No Hazard.	0[V]
PC301	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	0[V]
PTH301	Open		No Hazard.	0[V]
	Short		Normal operation.	
T102	Open	1	No Hazard.	0[V]
		2	See 27 Page.	
		3	See 27 Page.	
		4	Normal operation.	
		5	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
TR101	Open	C	No Hazard.	0[V]
		E	No Hazard.	0[V]
		B	No Hazard.	0[V]
	Short	C-E	No Hazard.	0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR101	Short	E-B	No Hazard.	0[V]
		B-C	No Hazard.	0[V]
TR102	Open	C	No Hazard.	0[V]
		E	No Hazard.	0[V]
		B	No Hazard.	0[V]
	Short	C-E	No Hazard.	0[V]
		E-B	No Hazard.	0[V]
		B-C	No Hazard.	0[V]
TR103	Open	D	See 27 Page.	
		S	See 27 Page.	
		G	See 27 Page.	
	Short	D-S	See 27 Page.	
		S-G	See 27 Page.	
		G-D	See 27 Page.	
TR151	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	See 27 Page.	
		E-B	Normal operation.	
		B-C	No Hazard.	0[V]
TR152	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	0[V]

F M E A

Component	Mode		Comment	Output Voltage (V)
TR152	Short	E-B	Normal operation.	
		B-C	No Hazard.	0[V]
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.	0[V]
		S	No Hazard.	0[V]
		G	No Hazard.	0[V]
	Short	D-S	Normal operation.	
		S-G	No Hazard.	0[V]
		G-D	No Hazard.	0[V]
TR202	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	0[V]
TR251	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR251	Short	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	No Hazard.	0[V]
TR253	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	0[V]
		E-B	No Hazard.	0[V]
		B-C	No Hazard.	0[V]
TR254	Open	C	Normal operation.	
		E	No Hazard.	0[V]
		B	No Hazard.	0[V]
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR303	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR303	Short	E-B	Normal operation.	
		B-C	No Hazard.	0[V]
TR304	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	0[V]
TR306	Open	D	Normal operation.	
		S	Normal operation.	
		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.	0[V]
		S-G	Normal operation.	
		G-D	No Hazard.	0[V]
TR310	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	No Hazard.	0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR310	Short	S-G	Normal operation.	
		G-D	No Hazard.	0[V]
TR311	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	0[V]
		E-B	No Hazard.	0[V]
		B-C	Normal operation.	
TR312	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	No Hazard.	0[V]
TR351	Open	C	Normal operation.	
		E	No Hazard.	0[V]
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR352	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	0[V]



## F M E A

Component	Mode		Comment	Output Voltage (V)
TR352	Short	E-B	No Hazard.	0[V]
		B-C	No hazard.	0[V]
TR501	Open	D except 120, 150	See 27 Page.	
		S except 120, 150	See 27 Page.	
		G except 120, 150	See 27 Page.	
	Short	D-S except 120, 150	See 27 Page.	
		S-G except 120, 150	See 27 Page.	
		G-D except 120, 150	See 27 Page.	
TR502	Open	D except 120, 150	See 27 Page.	
		S except 120, 150	See 27 Page.	
		G except 120, 150	See 27 Page.	
	Short	D-S except 120, 150	See 27 Page.	
		S-G except 120, 150	See 27 Page.	
		G-D except 120, 150	See 27 Page.	
	Open	D only 120, 150	See 27 Page.	
		S only 120, 150	See 27 Page.	
		G only 120, 150	See 28 Page.	
	Short	D-S only 120, 150	See 28 Page.	
		S-G only 120, 150	See 28 Page.	
		G-D only 120, 150	See 28 Page.	
TR505	Open	D only 033	See 28 Page.	
		S only 033	See 28 Page.	
		G only 033	See 28 Page.	
	Short	D-S only 033	See 28 Page.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR505	Short	S-G only 033	See 28 Page.	
		G-D only 033	See 28 Page.	
	Open	D except 033	See 28 Page.	
		S except 033	See 28 Page.	
		G except 033	See 28 Page.	
	Short	D-S except 033	See 28 Page.	
		S-G except 033	See 28 Page.	
		G-D except 033	See 28 Page.	
TR506	Open	D only 033	See 28 Page.	
		S only 033	See 28 Page.	
		G only 033	See 28 Page.	
	Short	D-S only 033	See 28 Page.	
		S-G only 033	See 28 Page.	
		G-D only 033	See 28 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.	
		G	Normal operation.	
	Short	D-S	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR602	Short	S-G	Normal operation.	
		G-D	Normal operation.	
TR603	Open	D	No Hazard.	0[V]
		S	No Hazard.	0[V]
		G	Normal operation.	
	Short	D-S	No Hazard.	0[V]
		S-G	No Hazard.	0[V]
		G-D	See 28 Page.	
TR604	Open	D	No Hazard.	0[V]
		S	No Hazard.	0[V]
		G	No Hazard.	0[V]
	Short	D-S	See 28 Page.	
		S-G	No Hazard.	0[V]
		G-D	No Hazard.	0[V]
TR605	Open	D	No Hazard.	0[V]
		S	No Hazard.	0[V]
		G	No Hazard.	0[V]
	Short	D-S	No Hazard.	0[V]
		S-G	No Hazard.	0[V]
		G-D	See 29 Page.	
TR701	Open	C	No Hazard.	0[V]
		E	No Hazard.	0[V]
		B	No Hazard.	0[V]
	Short	C-E	No Hazard.	0[V]

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR701	Short	E-B	No Hazard.	0[V]
		B-C	No Hazard.	0[V]
TR703	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	0[V]
		E-B	Normal operation.	
		B-C	No Hazard.	0[V]
TR704	Open	C	No Hazard.	0[V]
		E	No Hazard.	0[V]
		B	No Hazard.	0[V]
	Short	C-E	No Hazard.	0[V]
		E-B	No Hazard.	0[V]
		B-C	No Hazard.	0[V]
ZD151	Open		No Hazard.	0[V]
	Short		Normal operation.	
ZD201	Open		See 29 Page.	
	Short		No Hazard.	0[V]
ZD251	Open		Normal operation.	
	Short		Normal operation.	
ZD252	Open		No Hazard.	0[V]
	Short		Normal operation.	
ZD254	Open		Normal operation.	
	Short		Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
ZD302	Open	Normal operation.	
	Short	No Hazard.	0[V]
ZD601	Open	Normal operation.	
	Short	No Hazard.	0[V]
ZD602	Open	No Hazard.	0[V]
	Short	No Hazard.	0[V]
ZD603	Open	Normal operation.	
	Short	Normal operation.	
ZD701	Open	No Hazard.	0[V]
	Short	No Hazard.	0[V]
R101	Open	No Hazard.	0[V]
R102	Open	See 29 Page.	
R104	Open	No Hazard.	0[V]
R105	Open	Normal operation.	
R106	Open	Normal operation.	
R108	Open	Normal operation.	
R109	Open	Normal operation.	
R151	Open	Normal operation.	
R152	Open	Normal operation.	
R156	Open	Normal operation.	
R157	Open	Normal operation.	
R158	Open	Normal operation.	
R160	Open	Normal operation.	
R161	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R162	Open	Normal operation.	
R201	Open	No Hazard.	0[V]
R202	Open	No Hazard.	0[V]
R203	Open	Normal operation.	
R206	Open	See 29 Page.	
R207	Open	No Hazard.	0[V]
R208	Open	No Hazard.	0[V]
R210	Open	No Hazard.	0[V]
R211	Open	No Hazard.	0[V]
R212	Open	No Hazard.	0[V]
R213	Open	No Hazard.	0[V]
R214	Open	Normal operation.	
R216	Open	Normal operation.	
R217	Open	No Hazard.	0[V]
R251	Open	Normal operation.	
R252	Open	No Hazard.	0[V]
R253	Open	Normal operation.	
R254	Open	No Hazard.	0[V]
R255	Open	No Hazard.	0[V]
R257	Open	Normal operation.	
R258	Open	Normal operation.	
R259	Open	Normal operation.	
R261	Open	Normal operation.	
R263	Open	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
R305	Open		Normal operation.	
R306	Open		Normal operation.	
R307	Open		No Hazard.	0[V]
R308	Open		Normal operation.	
R310	Open		Normal operation.	
R311	Open		Normal operation.	
R312	Open		Normal operation.	
R313	Open		Normal operation.	
R351	Open		Output voltage decreased. No hazard.	Decreased
R352	Open		Output voltage decreased. No hazard.	Decreased
R353	Open		Output voltage decreased. No hazard.	Decreased
R354	Open		Output voltage decreased. No hazard.	Decreased
R355	Open		Output voltage decreased. No hazard.	Decreased
R356	Open		Output voltage decreased. No hazard.	Decreased
R358	Open		Normal operation.	
R359	Open		Output voltage decreased. No hazard.	Decreased
R360	Open		Output voltage decreased. No hazard.	Decreased
R363	Open		Normal operation.	
R501	Open		Output voltage decreased. No hazard.	Decreased
R503	Open	only 120, 150	Normal operation.	
R601	Open		Normal operation.	
R602	Open		Normal operation.	
R603	Open		Normal operation.	
R604	Open		Normal operation.	

## F M E A

Component	Mode	Comment	Output Voltage (V)
R605	Open	Normal operation.	
R606	Open	No Hazard.	0[V]
R607	Open	Normal operation.	
R608	Open	No Hazard.	0[V]
R701	Open	No Hazard.	0[V]
R702	Open	No Hazard.	0[V]
R707	Open	Normal operation.	
R709	Open	No Hazard.	0[V]
R710	Open	Normal operation.	
R711	Open	Normal operation.	
R712	Open	No Hazard.	0[V]
R713	Open	No Hazard.	0[V]
R714	Open	See 29 Page.	
R715	Open	See 29 Page.	
R716	Open	No Hazard.	0[V]
R718	Open	No Hazard.	0[V]
R719	Open	No Hazard.	0[V]
R720	Open	No Hazard.	0[V]
R722	Open	No Hazard.	0[V]
R723	Open	No Hazard.	0[V]
R724	Open	Output voltage increased. No hazard.	Increased
R725	Open	No Hazard.	0[V]
R727	Open	No Hazard.	0[V]
R728	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R729	Open	No Hazard.	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.	0[V]
C153	Short		No Hazard.	0[V]
C203	Open		Normal operation.	
C205	Short		No Hazard.	0[V]
C206	Short		No Hazard.	0[V]
C252	Short		No Hazard.	0[V]
C601	Short		No Hazard.	0[V]
C602	Short		No Hazard.	0[V]
C603	Open		Normal operation.	
C604	Open		Normal operation.	
C606	Short	except 033	See 28 Page.	
C609	Open	only 120, 150	Normal operation.	
	Short	only 120, 150	No Hazard.	0[V]
C701	Short		No Hazard.	0[V]
C703	Short		No Hazard.	0[V]
C709	Open		Normal operation.	
	Short		Normal operation.	
C710	Open		Normal operation.	
C712	Short		No Hazard.	0[V]
D101	Open		Normal operation.	
D603	Open	except 120, 150	Normal operation.	
	Short	except 120, 150	Normal operation.	
D705	Short		Normal operation.	
D706	Open		Normal operation.	

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
D706	Short		Normal operation.	
T102	Open	2	Normal operation.	
		3	Normal operation.	
TR103	Open	D	No Hazard.	0[V]
		S	No Hazard.	0[V]
		G	No Hazard.	0[V]
	Short	D-S	No Hazard.	0[V]
		S-G	No Hazard.	0[V]
		G-D	No Hazard.	0[V]
TR151	Short	C-E	No Hazard.	0[V]
TR501	Open	D except 120, 150	Normal operation.	
		S except 120, 150	Normal operation.	
		G except 120, 150	Normal operation.	
	Short	D-S except 120, 150	No Hazard.	0[V]
		S-G except 120, 150	No Hazard.	0[V]
		G-D except 120, 150	No Hazard.	0[V]
TR502	Open	D except 120, 150	Normal operation.	
		S except 120, 150	Normal operation.	
		G except 120, 150	Normal operation.	
	Short	D-S except 120, 150	No Hazard.	0[V]
		S-G except 120, 150	No Hazard.	0[V]
		G-D except 120, 150	No Hazard.	0[V]
	Open	D only 120, 150	No Hazard.	0[V]
		S only 120, 150	No Hazard.	0[V]

## ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR502	Open	G only 120, 150	No Hazard.	0[V]
	Short	D-S only 120, 150	No Hazard.	0[V]
		S-G only 120, 150	No Hazard.	0[V]
		G-D only 120, 150	No Hazard.	0[V]
TR505	Open	D only 033	Normal operation.	
		S only 033	Normal operation.	
		G only 033	Normal operation.	
	Short	D-S only 033	No Hazard.	0[V]
		S-G only 033	No Hazard.	0[V]
		G-D only 033	No Hazard.	0[V]
	Open	D except 033	No Hazard.	0[V]
		S except 033	No Hazard.	0[V]
		G except 033	No Hazard.	0[V]
	Short	D-S except 033	No Hazard.	0[V]
		S-G except 033	No Hazard.	0[V]
		G-D except 033	No Hazard.	0[V]
TR506	Open	D only 033	Normal operation.	
		S only 033	Normal operation.	
		G only 033	Normal operation.	
	Short	D-S only 033	No Hazard.	0[V]
		S-G only 033	No Hazard.	0[V]
		G-D only 033	No Hazard.	0[V]
TR603	Short	G-D	No Hazard.	0[V]
TR604	Short	D-S	No Hazard.	0[V]

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR605	Short	G-D	No Hazard.	0[V]
ZD201	Open		Normal operation.	
R102	Open		No Hazard.	0[V]
R206	Open		Normal operation.	
R714	Open		Normal operation.	
R715	Open		Normal operation.	