

ABNORMAL TEST RESULT

OF MODEL S T A 5 0 0 0 T

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 : 2/14 ~ 13/14)

(Abnormal Test Result: 14/14)

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
C1	Open	Nomal operation	
	Short	FlorF2 opened, No hazard	0V
C2	Open	Nomal operation	
	Short	FlorF3 opened, No hazard	0V
C3	Open	Nomal operation	
	Short	F2orF3 opened, No hazard	0V
C4	Open	Nomal operation	
	Short	FlorF2 opened, No hazard	0V
C5	Open	Nomal operation	
	Short	FlorF3 opened, No hazard	0V
C6	Open	Nomal operation	
	Short	F2orF3 opened, No hazard	0V
C14	Open	Nomal operation	
	Short	Nomal operation	
C16	Open	Nomal operation	
	Short	FlorF2orF3 opened, No hazard	0V
C17	Open	Nomal operation	
	Short	FlorF2orF3 opened, No hazard	0V
C18	Open	Nomal operation	
	Short	FlorF2orF3 opened, No hazard	0V
C19	Open	Nomal operation	
	Short	FlorF2orF3 opened, No hazard	0V
C20	Open	Nomal operation	
	Short	FlorF2orF3 opened, No hazard	0V
C21	Open	Nomal operation	
	Short	FlorF2orF3 opened, No hazard	0V



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Component	Mode	Comment	Output Voltage
C22	Open	Nomal operation	
	Short	FlorF2orF3 opened, No hazard	0V
C23	Open	Nomal operation	
	Short	ALM L→H, RS ON/OFF 1~4→OFF	
C24	Open	Nomal operation	
	Short	ALM L→H, RS ON/OFF 1~4→OFF	
C102	Open	Nomal operation	
	Short	Nomal operation	
C104	Open	Nomal operation	
	Short	Nomal operation	
C106	Open	Nomal operation	
	Short	Nomal operation	
C108	Open	Nomal operation	
	Short	Nomal operation	
C109	Open	Nomal operation	
	Short	RS ON/OFF 1~4→OFF	
C110	Open	Nomal operation	
	Short	RS ON/OFF 1~4→OFF	
D2	Open	Nomal operation	
	Short	Nomal operation	
D3	Open	Nomal operation	
	Short	Nomal operation	
D4	Open	REMOTE ON/OFF L→H	
	Short	Nomal operation	
D5	Open	Nomal operation	
	Short	Nomal operation	

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Component	Mode	Comment	Output Voltage
D6	Open	Nomal operation	
	Short	Nomal operation	
D7	Open	Nomal operation	
	Short	Nomal operation	
D8	Open	Nomal operation	
	Short	Nomal operation	
D56	Open	Nomal operation	
	Short	Nomal operation	
D91	Open	Nomal operation	
	Short	Nomal operation	
D92	Open	Nomal operation	
	Short	Nomal operation	
D93	Open	Nomal operation	
	Short	Nomal operation	
D94	Open	Nomal operation	
	Short	Nomal operation	
D95	Open	Nomal operation	
	Short	Nomal operation	
D96	Open	Nomal operation	
	Short	Nomal operation	
F1	Open	ALM L→H, RS ON/OFF 1~4→OFF	
	Short	Nomal operation	
F2	Open	ALM L→H, RS ON/OFF 1~4→OFF	
	Short	Nomal operation	
F3	Open	ALM L→H, RS ON/OFF 1~4→OFF	
	Short	Nomal operation	

F M E A

Component	Mode		Comment	Output Voltage
IC1	Open	1	RS ON/OFF 1→OFF	
		2	RS ON/OFF 1→OFF	
		3	Nomal operation	
		4	RS ON/OFF 1~4→OFF	
		5	Nomal operation	
		6	RS ON/OFF 2→OFF	
		7	RS ON/OFF 2→OFF	
		8	RS ON/OFF 3→OFF	
		9	RS ON/OFF 3→OFF	
		10	Nomal operation	
		11	RS ON/OFF 1~4→OFF	
		12	Nomal operation	
		13	RS ON/OFF 4→OFF	
		14	RS ON/OFF 4→OFF	
	Short	1-2	RS ON/OFF 1→OFF	
		2-3	RS ON/OFF 1→OFF	
		3-4	RS ON/OFF 1~4→OFF	
		4-5	RS ON/OFF 1~4→OFF	
		5-6	RS ON/OFF 2→OFF	
		6-7	RS ON/OFF 2→OFF	
		8-9	RS ON/OFF 3→OFF	
		9-10	RS ON/OFF 3→OFF	
		10-11	Nomal operation	
		11-12	Nomal operation	
		12-13	RS ON/OFF 4→OFF	

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Component	Mode		Comment	Output Voltage
IC1	Short	13-14	RS ON/OFF 4→OFF	
IC2	Open	1	RS ON/OFF 1~4→OFF	
		2	RS ON/OFF 1~4→OFF	
		3	Nomal operation	
		4	RS ON/OFF 1~4→OFF	
		5	Nomal operation	
		6	Nomal operation	
		7	Nomal operation	
		8	RS ON/OFF 1~4→OFF	
	Short	1-2	RS ON/OFF 1~4→OFF	
		2-3	Nomal operation	
		3-4	RS ON/OFF 1~4→OFF	
		5-6	Nomal operation	
		6-7	Nomal operation	
		7-8	Nomal operation	
L1	Open		No hazard	0V
	Short		Nomal operation	
L2	Open		No hazard	0V
	Short		Nomal operation	
L2	Open		No hazard	0V
	Short		Nomal operation	

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Component	Mode		Comment	Output Voltage
PC2	Open	A, K	REMOTE ON/OFF→OFF	
		C, E	REMOTE ON/OFF→OFF	
	Short	A-K	REMOTE ON/OFF→OFF	
		C-E	Nomal operation	
PC3	Open	A, K	ALM L→H, RS ON/OFF 1~4→OFF	
		C, E	ALM L→H	
	Short	A-K	ALM L→H	
		C-E	Nomal operation	
PC8	Open	A, K	ALM L→H, RS ON/OFF 1~4→OFF	
		C, E	RS ON/OFF 1~4→OFF	
	Short	A-K	RS ON/OFF 1~4→OFF	
		C-E	Nomal operation	
PC91	Open	A, K	RS ON/OFF 1→OFF	
		C, E	RS ON/OFF 1→OFF	
	Short	A-K	RS ON/OFF 1→OFF	
		C-E	Nomal operation	
PC92	Open	A, K	RS ON/OFF 2→OFF	
		C, E	RS ON/OFF 2→OFF	
	Short	A-K	RS ON/OFF 2→OFF	
		C-E	Nomal operation	
PC93	Open	A, K	RS ON/OFF 3→OFF	
		C, E	RS ON/OFF 3→OFF	
	Short	A-K	RS ON/OFF 3→OFF	
		C-E	Nomal operation	

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Component	Mode		Comment	Output Voltage
PC94	Open	A, K	RS ON/OFF 4→OFF	
		C, E	RS ON/OFF 4→OFF	
	Short	A-K	RS ON/OFF 4→OFF	
		C-E	Nomal operation	
R1	Open		Nomal operation	
R2	Open		Nomal operation	
R3	Open		Nomal operation	
R4	Open		ALM L→H, RS ON/OFF 1~4→OFF	
R5	Open		ALM L→H, RS ON/OFF 1~4→OFF	
R6	Open		ALM L→H, RS ON/OFF 1~4→OFF	
R7	Open		ALM L→H, RS ON/OFF 1~4→OFF	
R8	Open		Nomal operation	
R9	Open		Nomal operation	
R10	Open		Nomal operation	
R11	Open		RS ON/OFF 2→OFF	
R12	Open		Nomal operation	
R13	Open		Nomal operation	
R15	Open		Nomal operation	
R16	Open		Nomal operation	
R17	Open		REMOTE ON/OFF L→H	
R18	Open		Nomal operation	
R19	Open		ALM L→H, RS ON/OFF 1~4→OFF	
R20	Open		ALM L→H, RS ON/OFF 1~4→OFF	
R21	Open		ALM L→H, RS ON/OFF 1~4→OFF	
R22	Open		ALM L→H, RS ON/OFF 1~4→OFF	
R23	Open		ALM L→H, RS ON/OFF 1~4→OFF	

F M E A

Component	Mode	Comment	Output Voltage
R23	Open	ALM L→H, RS ON/OFF 1~4→OFF	
R24	Open	REMOTE ON/OFF L→H	
R25	Open	Nomal operation	
R26	Open	Nomal operation	
R27	Open	Nomal operation	
R28	Open	Nomal operation	
R29	Open	Nomal operation	
R30	Open	Nomal operation	
R31	Open	Nomal operation	
R41	Open	Nomal operation	
R43	Open	Nomal operation	
R56	Open	Nomal operation	
R57	Open	Nomal operation	
R60	Open	Nomal operation	
R61	Open	RS ON/OFF 1~4→OFF	
R62	Open	Nomal operation	
R63	Open	RS ON/OFF 1~4→OFF	
R64	Open	Nomal operation	
R65	Open	Nomal operation	
R68	Open	RS ON/OFF 1~4→OFF	
R69	Open	Nomal operation	
R79	Open	Nomal operation	
R80	Open	Nomal operation	
R81	Open	Nomal operation	
R83	Open	Nomal operation	
R90	Open	Nomal operation	

F M E A

Component	Mode		Comment	Output Voltage
R91	Open		Nomal operation	
R92	Open		Nomal operation	
R93	Open		Nomal operation	
SCR1	Open	G	Nomal operation	
		A	THF1 opened, No hazard	0V
		K	THF1 opened, No hazard	0V
	Short	G-A	Nomal operation	
		G-K	Nomal operation	
		A-K	Nomal operation	
SK1	Open		Nomal operation	
	Short		FlorF2 opened, No hazard	
SK2	Open		Nomal operation	
	Short		F2orF3 opened, No hazard	
SK3	Open		Nomal operation	
	Short		FlorF3 opened, No hazard	
SS1	Open		ALM L→H, RS ON/OFF 1~4→OFF	
	Short		See 13 Page.	
SS2	Open		ALM L→H, RS ON/OFF 1~4→OFF	
	Short		See 13 Page.	
SS3	Open		ALM L→H, RS ON/OFF 1~4→OFF	
	Short		See 13 Page.	0V
THF1	Open		Nomal operation	
	Short		Nomal operation	
THSW1	Open		Nomal operation	
	Short		ALM L→H, RS ON/OFF 1~4→OFF	

F M E A

Component	Mode		Comment	Output Voltage
TR1	Open	B	ALM L→H, RS ON/OFF 1~4→OFF	
		C	ALM L→H, RS ON/OFF 1~4→OFF	
		E	ALM L→H, RS ON/OFF 1~4→OFF	
	Short	B-C	Nomal operation	
		C-E	Nomal operation	
		B-E	Nomal operation	
TR2	Open	B	Nomal operation	
		C	Nomal operation	
		E	Nomal operation	
	Short	B-C	ALM L→H, RS ON/OFF 1~4→OFF	
		C-E	ALM L→H, RS ON/OFF 1~4→OFF	
		B-E	Nomal operation	
TR3	Open	B	REMOTE ON/OFF L→H	
		C	REMOTE ON/OFF L→H	
		E	REMOTE ON/OFF L→H	
	Short	B-C	Nomal operation	
		C-E	Nomal operation	
		B-E	REMOTE ON/OFF L→H	
TR4	Open	B	REMOTE ON/OFF L→H	
		C	REMOTE ON/OFF L→H	
		E	REMOTE ON/OFF L→H	
	Short	B-C	Nomal operation	
		C-E	Nomal operation	
		B-E	REMOTE ON/OFF L→H	

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Component	Mode		Comment	Output Voltage
TR5	Open	B	Nomal operation	
		C	Nomal operation	
		E	Nomal operation	
	Short	B-C	Nomal operation	
		C-E	Nomal operation	
		B-E	Nomal operation	
TR6	Open	B	RS ON/OFF 1~4→OFF	
		C	RS ON/OFF 1~4→OFF	
		E	RS ON/OFF 1~4→OFF	
	Short	B-C	Nomal operation	
		C-E	Nomal operation	
		B-E	RS ON/OFF 1~4→OFF	
TR7	Open	B	Nomal operation	
		C	Nomal operation	
		E	Nomal operation	
	Short	B-C	RS ON/OFF 1~4→OFF	
		C-E	RS ON/OFF 1~4→OFF	
		B-E	Nomal operation	
TR9	Open	B	REMOTE ON/OFF L→H	
		C	REMOTE ON/OFF L→H	
		E	REMOTE ON/OFF L→H	
	Short	B-C	Nomal operation	
		C-E	Nomal operation	
		B-E	REMOTE ON/OFF L→H	

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Component	Mode		Comment	Output Voltage
TR10	Open	B	ALM L→H	
		C	ALM L→H	
		E	ALM L→H	
	Short	B-C	Nomal operation	
		C-E	Nomal operation	
		B-E	ALM L→H	
ZD1	Open	ALM L→H, RS ON/OFF 1~4→OFF		
	Short	Nomal operation		
ZD2	Open	ALM L→H, RS ON/OFF 1~4→OFF		
	Short	Nomal operation		
ZD3	Open	Nomal operation		
	Short	ALM L→H, RS ON/OFF 1~4→OFF		
ZD4	Open	REMOTE ON/OFF L→H		
	Short	Nomal operation		

ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage
SS1	Short	F1andF2 opened, No hazard	0V
SS2	Short	F1andF2 opened, No hazard	0V
SS3	Short	F1andF2 opened, No hazard	0V