COSEL

ABNORMAL TEST RESULT

OF MODEL SUW/SUCW101212
SUW/SUCW101215

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 : 2/12 ～ 10/12)
(Abnormal Test Result: 11/12 ～ 12/12)

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.

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F M E A

Component	Mode	Comment	Output Voltage
C11	Open	Normal operation	
	Short	See 11 Page.	
C21	Open	Normal operation	
	Short	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
C22	Open	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
C23	Open	Normal operation	
	Short	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
C31	Open	Normal operation	
	Short	See 11 Page.	
C32	Open	Normal operation	
	Short	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
C34	Open	Normal operation	
	Short	Normal operation	
C41	Open	Normal operation	
	Short	Normal operation	
C42	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
	Short	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
C43	Open	Normal operation	
	Short	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
C51	Open	Normal operation	
	Short	See 11 Page.	
C53	Open	Normal operation	
	Short	See 11 Page.	

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F M E A

Component	Mode	Comment	Output Voltage
C54	Open	Normal operation	
	Short	See 11 Page.	
C56	Open	Normal operation	
	Short	See 11 Page.	
C71	Open	Normal operation	
	Short	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
D12	Open	Normal operation	
	Short	Normal operation	
D31	Open	Normal operation	
	Short	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
D32	Open	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
D41	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
	Short	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
D51	Open	Normal operation	
	Short	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
D52	Open	Normal operation	
	Short	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
D53	Open	Normal operation	
	Short	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
D54	Open	Normal operation	
	Short	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
F11	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short	Normal operation	

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F M E A

Component	Mode		Comment	Output Voltage
IC11	Open	1	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		2	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		3	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		4	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		5	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		6	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		7	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		8	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short	1-2	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		2-3	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		3-4	Normal operation	
		5-6	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		6-7	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		7-8	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
IC51	Open	K	See 11 Page.	
		A	See 11 Page.	
		R	See 11 Page.	
	Short	A-K	Normal operation	
		K-R	Normal operation	
		R-A	See 11 Page.	
L11	Open		No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short		Normal operation	
L51	Open		See 11 Page.	
	Short		Normal operation	

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F M E A

Component	Mode		Comment	Output Voltage
L52	Open		See 11 Page.	
	Short		Normal operation	
PC11	Open	A, K	See 11 Page.	
		C, E	See 11 Page.	
	Short	A-K	See 11 Page.	
		C-E	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
T11	Open	1	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		2	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		4	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		5	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		6	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		7	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		9	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		10	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short	1-2	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		2-3	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		4-5	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		6-7	Normal operation	
		8-9	Normal operation	
		9-10	Normal operation	
T12	Open	1	Normal operation	
		2	Normal operation	
		3	See 11 Page.	
		4	See 11 Page.	

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F M E A

Component	Mode		Comment	Output Voltage
T12	Short	1-2	See 11 Page.	
		3-4	See 11 Page.	
TR11	Open	C	Normal operation	
		E	Normal operation	
		B	Normal operation	
	Short	C-E	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
		E-B	Normal operation	
		B-C	F11 opend No Hazard	AVR1:* 0[V] AVR2:* 0[V]
TR12	Open	C	Normal operation	
		E	Normal operation	
		B	Normal operation	
	Short	C-E	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		E-B	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		B-C	Normal operation	
	Open	C	Normal operation	
		E	Normal operation	
		B	Normal operation	
	Short	C-E	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		E-B	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		B-C	Normal operation	
TR21	Open	C	Normal operation	
		E	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		B	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short	C-E	See 11 Page.	

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F M E A

Component	Mode		Comment	Output Voltage
TR21	Short	E-B	Normal operation	
		B-C	Normal operation	
TR22	Open	C	Normal operation	
		E	Normal operation	
		B	Normal operation	
	Short	C-E	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
		E-B	Normal operation	
		B-C	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
	Open	C	Normal operation	
		E	Normal operation	
		B	Normal operation	
	Short	C-E	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
		E-B	Normal operation	
		B-C	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
TR31	Open	D	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		S	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		G	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short	D-S	See 11 Page.	
		S-G	Normal operation	
		G-D	See 11 Page.	
TR32	Open	C	Normal operation	
		E	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		B	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
	Short	C-E	Normal operation	

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F M E A

Component	Mode		Comment	Output Voltage
TR32	Short	E-B	Normal operation	
		B-C	Normal operation	
TR33	Open	C	Normal operation	
		E	Normal operation	
		B	Normal operation	
	Short	C-E	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		E-B	Normal operation	
		B-C	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
TR34	Open	C	Normal operation	
		E	Normal operation	
		B	Normal operation	
	Short	C-E	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
		E-B	Normal operation	
		B-C	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
ZD11	Open		Normal operation	
	Short		Normal operation	
ZD12	Open		Normal operation	
	Short		No Hazard	AVR1:* 0[V] AVR2:* 0[V]
ZD71	Open		No Hazard	AVR1:* Increased. AVR2:* Increased.
	Short		Normal operation	
ZD72	Open		No Hazard	AVR1:* Increased. AVR2:* Increased.
	Short		Normal operation	
ZD73	Open		Normal operation	
	Short		No Hazard	AVR1:* Decreased. AVR2:* Decreased.

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F M E A

Component	Mode	Comment	Output Voltage
R11	Open	Normal operation	
R12	Open	Normal operation	
R13	Open	Normal operation	
R14	Open	Normal operation	
R15	Open	Normal operation	
R16	Open	Normal operation	
R17	Open	See 11 Page.	
R21	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
R22	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
R23	Open	No Hazard	
R24	Open	No Hazard	
R25	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
R26	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
R27	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
R28	Open	Normal operation	
R29	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
R31	Open	Normal operation	
R32	Open	Normal operation	
R33	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
R34	Open	Normal operation	
R35	Open	No Hazard	AVR1:* 0[V] AVR2:* 0[V]
R36	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
R37	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
R38	Open	Normal operation	

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F M E A

Component	Mode	Comment	Output Voltage
R41	Open	Normal operation	
R42	Open	Normal operation	
R44	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
R45	Open	Normal operation	
R46	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
R47	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
R48	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
R51	Open	Normal operation	
R52	Open	Normal operation	
R71	Open	See 11 Page.	
R72	Open	See 12 Page.	
R73	Open	See 12 Page.	
R74	Open	Normal operation	
R75	Open	See 12 Page.	
R76	Open	See 12 Page.	
R77	Open	No Hazard	AVR1:* Decreased. AVR2:* Decreased.
R78	Open	Normal operation	
R79	Open	Normal operation	
R81	Open	Normal operation	
R82	Open	Normal operation	

COSEL

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage
C11	Short		F11 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
C31	Short		F11 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
C51	Short		No Hazard.	AVR1: 0[V] AVR2: 0[V]
C53	Short		No Hazard.	AVR1: 0[V] AVR2: 0[V]
C54	Short		No Hazard.	AVR1: 0[V] AVR2: 0[V]
C56	Short		No Hazard.	AVR1: 0[V] AVR2: 0[V]
IC51	Open	K	No Hazard.	AVR1:Increased. AVR2:Increased.
		A	No Hazard.	AVR1:Increased. AVR2:Increased.
		R	No Hazard.	AVR1:Increased. AVR2:Increased.
	Short	R-A	No Hazard.	AVR1:Increased. AVR2:Increased.
L51	Open		No Hazard.	AVR1: 0[V] AVR2:Increased.
L52	Open		No Hazard.	AVR1:Increased. AVR2: 0[V]
PC11	Open	A, K	No Hazard.	AVR1:Increased. AVR2:Increased.
		C, E	No Hazard.	AVR1:Increased. AVR2:Increased.
	Short	A-K	No Hazard.	AVR1:Increased. AVR2:Increased.
T12	Open	3	No Hazard.	AVR1:Increased. AVR2:Increased.
		4	No Hazard.	AVR1:Increased. AVR2:Increased.
	Short	1-2	No Hazard.	AVR1:Increased. AVR2:Increased.
		3-4	No Hazard.	AVR1:Increased. AVR2:Increased.
TR21	Short	C-E	No Hazard.	AVR1:Increased. AVR2:Increased.
TR31	Short	D-S	F11 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
		G-D	F11 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
R17	Open		No Hazard.	AVR1:Increased. AVR2:Increased.
R71	Open		No Hazard.	AVR1:Increased. AVR2:Increased.

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ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage
R72	Open	No Hazard.	AVR1:Increased. AVR2:Increased.
R73	Open	No Hazard.	AVR1:Increased. AVR2:Increased.
R75	Open	No Hazard.	AVR1:Increased. AVR2:Increased.
R76	Open	No Hazard.	AVR1:Increased. AVR2:Increased.