COSEL

<div align="center">

ABNORMAL TEST RESULT

OF MODEL SUW/SUCW102412
SUW/SUCW102415

</div>

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 ～ 11/12)
      (Abnormal Test Result: 12/12 ～ 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 12 Page.	
C21	Open	No Hazard.	AVR1:Decreased. AVR2:Decreased.
	Short	No Hazard.	AVR1: 0[V] AVR2: 0[V]
C22	Open	See 12 Page.	
	Short	Normal operation.	
C23	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased. AVR2:Decreased.
C31	Open	Normal operation.	
	Short	No Hazard.	AVR1: 0[V] AVR2: 0[V]
C32	Open	Normal operation.	
	Short	No Hazard.	AVR1: 0[V] AVR2: 0[V]
C33	Open	No Hazard.	AVR1:Decreased. AVR2:Decreased.
	Short	No Hazard.	AVR1: 0[V] AVR2: 0[V]
C34	Open	Normal operation.	
	Short	Normal operation.	
C42	Open	Normal operation.	
	Short	Normal operation.	
C43	Open	No Hazard.	AVR1:Decreased. AVR2:Decreased.
	Short	No Hazard.	AVR1:Decreased. AVR2:Decreased.
C44	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased. AVR2:Decreased.
C51	Open	Normal operation.	
	Short	See 12 Page.	

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Component	Mode	Comment	Output Voltage
C53	Open	Normal operation.	
	Short	See 12 Page.	
C54	Open	Normal operation.	
	Short	See 12 Page.	
C56	Open	Normal operation.	
	Short	See 12 Page.	
C71	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased. AVR2:Decreased.
C72	Open	Normal operation.	
	Short	Normal operation.	
D12	Open	Normal operation.	
	Short	Normal operation.	
D31	Open	Normal operation.	
	Short	Normal operation.	
D32	Open	No Hazard.	AVR1: 0[V] AVR2: 0[V]
	Short	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.

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Component	Mode		Comment	Output Voltage
D54	Open		Normal operation.	
	Short		No Hazard.	AVR1:Decreased. AVR2:Decreased.
F11	Open		No Hazard.	AVR1: 0[V] AVR2: 0[V]
	Short		Normal operation.	
IC11	Open	1	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		2	Normal operation.	
		3	See 12 Page.	
		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 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
		3-4	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		5-6	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		6-7	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		7-8	No Hazard.	AVR1: 0[V] AVR2: 0[V]
IC51	Open	K	See 12 Page.	
		A	See 12 Page.	
		R	See 12 Page.	
	Short	A-K	Normal operation.	
		K-R	Normal operation.	
		R-A	See 12 Page.	

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Component	Mode		Comment	Output Voltage
L11	Open		No Hazard.	AVR1: 0[V] AVR2: 0[V]
	Short		Normal operation.	
L51	Open		See 12 Page.	
	Short		Normal operation.	
L52	Open		See 12 Page.	
	Short		Normal operation.	
PC11	Open	A, K	See 12 Page.	
		C, E	See 12 Page.	
	Short	A–K	See 12 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 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
		4–5	F11 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
		6–7	Normal operation.	
		8–9	Normal operation.	
		9–10	Normal operation.	

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Component	Mode		Comment	Output Voltage
TR11	Open	C	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		E	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		B	No Hazard.	AVR1: 0[V] AVR2: 0[V]
	Short	C-E	See 12 Page.	
		E-B	F11 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
		B-C	See 12 Page.	
TR12	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	Normal operation.	
TR14	Open	C	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		E	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		B	No Hazard.	AVR1: 0[V] AVR2: 0[V]
	Short	C-E	See 12 Page.	
		E-B	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		B-C	No Hazard.	AVR1: 0[V] AVR2: 0[V]
TR21	Open	C	No Hazard.	AVR1:Decreased. AVR2:Decreased.
		E	No Hazard.	AVR1:Decreased. AVR2:Decreased.
		B	No Hazard.	AVR1:Decreased. AVR2:Decreased.
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:Decreased. AVR2:Decreased.
		B-C	Normal operation.	

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Component	Mode		Comment	Output Voltage
TR22	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:Decreased. AVR2:Decreased.
		E-B	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		B-C	No Hazard.	AVR1: 0[V] AVR2: 0[V]
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 12 Page.	
		S-G	No Hazard.	AVR1: 0[V] AVR2: 0[V]
		G-D	See 12 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.	
		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]

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Component	Mode		Comment	Output Voltage
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]
TR41	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	Normal operation.	
ZD11	Open		No Hazard.	AVR1: 0[V] AVR2: 0[V]
	Short		Normal operation.	
ZD12	Open		Normal operation.	
	Short		Normal operation.	
ZD13	Open		Normal operation.	
	Short		No Hazard.	AVR1: 0[V] AVR2: 0[V]
ZD14	Open		Normal operation.	
	Short		No Hazard.	AVR1:Decreased. AVR2:Decreased.
ZD71	Open		No Hazard.	AVR1:Increased. AVR2:Increased.
	Short		Normal operation.	
ZD72	Open		No Hazard.	AVR1:Increased. AVR2:Increased.
	Short		Normal operation.	

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参考資料

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Component	Mode	Comment	Output Voltage
ZD73	Open	Normal operation.	
	Short	No Hazard.	AVR1:Decreased. AVR2:Decreased.
R10	Open	No Hazard.	AVR1: 0[V] AVR2: 0[V]
R11	Open	Normal operation.	
R12	Open	Normal operation.	
R13	Open	No Hazard.	AVR1: 0[V] AVR2: 0[V]
R14	Open	No Hazard.	AVR1: 0[V] AVR2: 0[V]
R15	Open	Normal operation.	
R16	Open	Normal operation.	
R17	Open	Normal operation.	
R20	Open	No Hazard.	AVR1: 0[V] AVR2: 0[V]
R22	Open	No Hazard.	AVR1: 0[V] AVR2: 0[V]
R23	Open	Normal operation.	
R24	Open	Normal operation.	
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	No Hazard.	AVR1: 0[V] AVR2: 0[V]
R29	Open	Normal operation.	
R30	Open	Normal operation.	
R31	Open	No Hazard.	AVR1: 0[V] AVR2: 0[V]
R32	Open	Normal operation.	
R33	Open	No Hazard.	AVR1: 0[V] AVR2: 0[V]
R34	Open	Normal operation.	

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Component	Mode	Comment	Output Voltage
R35	Open	No Hazard.	AVR1：Decreased. AVR2：Decreased.
R36	Open	Normal operation.	
R37	Open	Normal operation.	
R38	Open	Normal operation.	
R39	Open	Normal operation.	
R41	Open	Normal operation.	
R42	Open	Normal operation.	
R43	Open	Normal operation.	
R44	Open	Normal operation.	
R45	Open	No Hazard.	AVR1：Decreased. AVR2：Decreased.
R46	Open	Normal operation.	
R47	Open	No Hazard.	AVR1：Decreased. AVR2：Decreased.
R48	Open	No Hazard.	AVR1：Decreased. AVR2：Decreased.
R49	Open	No Hazard.	AVR1：Decreased. AVR2：Decreased.
R50	Open	No Hazard.	AVR1：Decreased. AVR2：Decreased.
R51	Open	Normal operation.	
R52	Open	Normal operation.	
R71	Open	No Hazard.	AVR1：Increased. AVR2：Increased.
R72	Open	No Hazard.	AVR1：Increased. AVR2：Increased.
R73	Open	No Hazard.	AVR1：Increased. AVR2：Increased.
R74	Open	Normal operation.	
R75	Open	No Hazard.	AVR1：Increased. AVR2：Increased.
R76	Open	No Hazard.	AVR1：Increased. AVR2：Increased.
R77	Open	No Hazard.	AVR1：Decreased. AVR2：Decreased.

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<u>F M E A</u>

Component	Mode	Comment	Output Voltage
R78	Open	Normal operation.	
R79	Open	Normal operation.	
R81	Open	Normal operation.	
R82	Open	Normal operation.	
R83	Open	Normal operation.	

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ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage
C11	Short		F11 opened, No Hazard.	AVR1: 0[V] AVR2: 0[V]
C22	Open		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]
IC11	Open	3	F11 opened, 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.
TR11	Short	C-E	No Hazard.	
		B-C	No Hazard.	
TR14	Short	C-E	No Hazard.	AVR1:Decreased. AVR2:Decreased.
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]

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