

ABNORMAL TEST RESULT

OF MODEL PLA150F

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 : 2/19 ~ 16/19)

(Abnormal Test Result: 17/19 ~ 19/19)

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.	AVR1:**
	Short	F101 opened, No hazard.	AVR1:0
C102	Open	Normal operation.	AVR1:**
	Short	F101 opened, No hazard.	AVR1:0
C103	Open	See 17 Page.	
	Short	F101 opened, No hazard.	AVR1:0
C106	Open	Output voltage decreased.	AVR1:decreased
	Short	No hazard.	AVR1:0
C109	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C110	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C112	Open	Normal operation.	AVR1:**
	Short	F101 opened, No hazard.	AVR1:0
C113	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C114	Open	Normal operation.	AVR1:**
	Short	See 17 Page.	
C115	Open	Normal operation.	AVR1:**
	Short	See 17 Page.	
C116	Open	Normal operation.	AVR1:**
	Short	See 17 Page.	
C120	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C121	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C201	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C202	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C204	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C205	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C206	Open	Normal operation.	AVR1:**
	Short	See 17 Page.	
C207	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
C209	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
C220	Open	Normal operation.	AVR1:**
	Short	See 17 Page.	
C221	Open	Normal operation.	AVR1:**
	Short	See 17 Page.	
C501	Open	Output voltage decreased.	AVR1:decreased
	Short	See 17 Page.	
C502	Open	Output voltage decreased.	AVR1:decreased
	Short	See 17 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C503	Open		Output voltage decreased.	AVR1:decreased
	Short		See 17 Page.	
C504	Open		Output voltage decreased.	AVR1:decreased
	Short		See 17 Page.	
C505	Open		Output voltage decreased.	AVR1:decreased
	Short		See 17 Page.	
C506	Open		Output voltage decreased.	AVR1:decreased
	Short		See 17 Page.	
C507	Open		Output voltage decreased.	AVR1:decreased
	Short		See 17 Page.	
C508	Open		Output voltage decreased.	AVR1:decreased
	Short		See 17 Page.	
C509	Open		Output voltage decreased.	AVR1:decreased
	Short		See 17 Page.	
C510	Open		Output voltage decreased.	AVR1:decreased
	Short		See 18 Page.	
C511	Open		Output voltage decreased.	AVR1:decreased
	Short		See 18 Page.	
C512	Open		Output voltage decreased.	AVR1:decreased
	Short		See 18 Page.	
C513	Open	Except -24, -48	Output voltage decreased.	AVR1:decreased
	Short	Except -24, -48	See 18 Page.	
C514	Open	Except -24, -48	Output voltage decreased.	AVR1:decreased
	Short	Except -24, -48	See 18 Page.	

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Component	Mode		Comment	Output Voltage (V)
C515	Open		Output voltage decreased.	AVR1:decreased
	Short		Output voltage decreased.	AVR1:decreased
C516	Open		Output voltage decreased.	AVR1:decreased
	Short		Output voltage decreased.	AVR1:decreased
C518	Open		Normal operation.	AVR1:*
	Short		See 18 Page.	
C519	Open		Normal operation.	AVR1:*
	Short		See 18 Page.	
C520	Open	Except -24	Normal operation.	AVR1:*
	Short	Except -24	See 18 Page.	
C521	Open	Except -24	Normal operation.	AVR1:*
	Short	Except -24	See 18 Page.	
C522	Open		Output voltage decreased.	AVR1:decreased
	Short		Output voltage decreased.	AVR1:decreased
C602	Open		Output voltage decreased.	AVR1:decreased
	Short		Normal operation.	AVR1:*
C603	Open	Except -24, -48	Normal operation.	AVR1:*
	Short	Except -24, -48	Normal operation.	AVR1:*
D101	Open		Output voltage decreased.	AVR1:decreased
	Short		Output voltage decreased.	AVR1:decreased
D102	Open		Output voltage decreased.	AVR1:decreased
	Short		No hazard.	AVR1:0
D103	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
D104	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
D105	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D106	Open	Normal operation.	AVR1:**
	Short	See 18 Page.	
D107	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D201	Open	Output voltage decreased.	AVR1:decreased
	Short	Output voltage decreased.	AVR1:decreased
D202	Open	No hazard.	AVR1:0
	Short	Normal operation.	AVR1:**
D203	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D204	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
D205	Open	Normal operation.	AVR1:**
	Short	Normal operation.	AVR1:**
D206	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
D210	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0
D211	Open	Normal operation.	AVR1:**
	Short	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	1	Output voltage decreased.	AVR1:decreased
		2	No hazard.	AVR1:0
		3	Output voltage decreased.	AVR1:decreased
		4	Output voltage decreased.	AVR1:decreased
		5	Normal operation.	AVR1:*
		6	Output voltage decreased.	AVR1:decreased
		7	Output voltage decreased.	AVR1:decreased
		8	Normal operation.	AVR1:*
		9	No hazard.	AVR1:0
		10	See 18 Page.	
		11	Normal operation.	AVR1:*
		12	Output voltage decreased.	AVR1:decreased
		13	No hazard.	AVR1:0
		14	Normal operation.	AVR1:*
		16	Normal operation.	AVR1:*
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	Output voltage decreased.	AVR1:decreased
		4-5	No hazard.	AVR1:0
		5-6	Output voltage decreased.	AVR1:decreased
		6-7	Output voltage decreased.	AVR1:decreased
		7-8	Output voltage decreased.	AVR1:decreased
		9-10	No hazard.	AVR1:0
		10-11	See 18 Page.	

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Component	Mode		Comment	Output Voltage (V)
IC201	Short	11-12	Output voltage decreased.	AVR1:decreased
		12-13	Output voltage decreased.	AVR1:decreased
		13-14	Normal operation.	AVR1:*
IC601	Open	K	No hazard.	AVR1:0
		A	No hazard.	AVR1:0
		R	No hazard.	AVR1:0
	Short	A-K	Output voltage decreased.	AVR1:decreased
		K-R	Output voltage decreased.	AVR1:decreased
		R-A	No hazard.	AVR1:0
J101	Open		No hazard.	AVR1:0
J102	Open		See 18 Page.	
J103	Open		No hazard.	AVR1:0
J104	Open		No hazard.	AVR1:0
J105	Open		Normal operation.	AVR1:*
J201	Open		Output voltage decreased.	AVR1:decreased
J202	Open		Output voltage decreased.	AVR1:decreased
J204	Open		Output voltage decreased.	AVR1:decreased
J501	Open	Except -36, -48	Normal operation.	AVR1:*
J601	Open	Except -36, -48	No hazard.	AVR1:0
J602	Open		No hazard.	AVR1:0
L101	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L102	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*

F M E A

Component	Mode		Comment	Output Voltage (V)
L103	Open	1	Output voltage decreased.	AVR1:decreased
		7	Output voltage decreased.	AVR1:decreased
		9	Output voltage decreased.	AVR1:decreased
		10	Output voltage decreased.	AVR1:decreased
	Short	9-10	No hazard.	AVR1:0
L501	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
LED501	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
PC201	Open	A, K	No hazard.	AVR1:0
		C, E	No hazard.	AVR1:0
	Short	A-K	No hazard.	AVR1:0
		C-E	Output voltage decreased.	AVR1:decreased
PC202	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No hazard.	AVR1:0
SS101	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
SS501	Open	Cathode	See 18 Page.	
		Alternative	No hazard.	AVR1:0
	Short	C-A	See 18 Page.	
SS502	Open	Cathode	See 18 Page.	
		Alternative	No hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
SS502	Short	C-A	See 18 Page.	
T201	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	Normal operation.	AVR1:*
		4	Output voltage decreased.	AVR1:decreased
		5	Output voltage decreased.	AVR1:decreased
		8, 9	See 18 Page.	
		10, 11	See 18 Page.	
	Short	1-2	See 19 Page.	
		2-3	See 19 Page.	
		3-4	See 19 Page.	
		4-5	See 19 Page.	
		8, 9-10, 11	Output voltage decreased.	AVR1:decreased
TH101	Open		No hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
TR101	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR201	Open	D	See 19 Page.	
		S	See 19 Page.	
		G	See 19 Page.	

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Component	Mode		Comment	Output Voltage (V)
TR201	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR202	Open	S(1)	Normal operation.	AVR1:**
		G(2)	Normal operation.	AVR1:**
		D(3)	Normal operation.	AVR1:**
		S(4)	Normal operation.	AVR1:**
		G(5)	Normal operation.	AVR1:**
		D(6)	Normal operation.	AVR1:**
	Short	1-2	Normal operation.	AVR1:**
		2-3	Normal operation.	AVR1:**
		4-5	See 19 Page.	
		5-6	See 19 Page.	
TR203	Open	C	Output voltage decreased.	AVR1:decreased
		E	Output voltage decreased.	AVR1:decreased
		B	Output voltage decreased.	AVR1:decreased
	Short	C-E	Normal operation.	AVR1:**
		E-B	Normal operation.	AVR1:**
		B-C	Normal operation.	AVR1:**
VR201	Open	brush	Normal operation.	AVR1:**
			Output voltage decreased.	AVR1:decreased
	Short		Normal operation.	AVR1:**
VR601	Open	brush	Output voltage decreased.	AVR1:decreased
			Output voltage decreased.	AVR1:decreased

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Component	Mode		Comment	Output Voltage (V)
VR601	Short		No hazard.	AVR1:0
ZD101	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
ZD102	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
ZD201	Open		Normal operation.	AVR1:*
	Short		Output voltage decreased.	AVR1:decreased
ZD501	Open	Only -36, -48	Normal operation.	AVR1:*
	Short	Only -36, -48	No hazard.	AVR1:0
ZD502	Open		Normal operation.	AVR1:*
	Short		No hazard.	AVR1:0
ZD601	Open	Only -36, -48	No hazard.	AVR1:0
	Short	Only -36, -48	Normal operation.	AVR1:*
SK101	Open		Normal operation.	AVR1:*
	Short		F101 opened, No hazard.	AVR1:0
R101	Open		Normal operation.	AVR1:*
R102	Open		Normal operation.	AVR1:*
R103	Open		Normal operation.	AVR1:*
R104	Open		Normal operation.	AVR1:*
R105	Open		Normal operation.	AVR1:*
R106	Open		No hazard.	AVR1:0
R107	Open		No hazard.	AVR1:0
R108	Open		No hazard.	AVR1:0
R109	Open		No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
R110	Open	Normal operation.	AVR1:*
R111	Open	Normal operation.	AVR1:*
R112	Open	Normal operation.	AVR1:*
R115	Open	Normal operation.	AVR1:*
R119	Open	Normal operation.	AVR1:*
R120	Open	Normal operation.	AVR1:*
R121	Open	Normal operation.	AVR1:*
R123	Open	Normal operation.	AVR1:*
R124	Open	Normal operation.	AVR1:*
R125	Open	Normal operation.	AVR1:*
R126	Open	Output voltage decreased.	AVR1:decreased
R127	Open	Output voltage decreased.	AVR1:decreased
R128	Open	Output voltage decreased.	AVR1:decreased
R129	Open	Output voltage decreased.	AVR1:decreased
R130	Open	Normal operation.	AVR1:*
R131	Open	No hazard.	AVR1:0
R132	Open	No hazard.	AVR1:0
R133	Open	No hazard.	AVR1:0
R134	Open	No hazard.	AVR1:0
R135	Open	No hazard.	AVR1:0
R136	Open	Output voltage decreased.	AVR1:decreased
R137	Open	Output voltage decreased.	AVR1:decreased
R138	Open	Normal operation.	AVR1:*
R139	Open	Normal operation.	AVR1:*

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Component	Mode	Comment	Output Voltage (V)
R140	Open	Normal operation.	AVR1:**
R150	Open	No hazard.	AVR1:0
R151	Open	No hazard.	AVR1:0
R152	Open	Normal operation.	AVR1:**
R153	Open	Normal operation.	AVR1:**
R154	Open	Normal operation.	AVR1:**
R155	Open	Normal operation.	AVR1:**
R201	Open	Normal operation.	AVR1:**
R202	Open	Normal operation.	AVR1:**
R203	Open	Output voltage decreased.	AVR1:decreased
R204	Open	Output voltage decreased.	AVR1:decreased
R205	Open	Output voltage decreased.	AVR1:decreased
R206	Open	Normal operation.	AVR1:**
R208	Open	Normal operation.	AVR1:**
R209	Open	No hazard.	AVR1:0
R210	Open	Output voltage decreased.	AVR1:decreased
R213	Open	No hazard.	AVR1:0
R215	Open	No hazard.	AVR1:0
R216	Open	Normal operation.	AVR1:**
R217	Open	Output voltage decreased.	AVR1:decreased
R218	Open	Output voltage decreased.	AVR1:decreased
R219	Open	Output voltage decreased.	AVR1:decreased
R230	Open	Normal operation.	AVR1:**
R231	Open	Normal operation.	AVR1:**

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Component	Mode		Comment	Output Voltage (V)
R232	Open		Normal operation.	AVR1:**
R233	Open		Normal operation.	AVR1:**
R234	Open		Normal operation.	AVR1:**
R235	Open		Normal operation.	AVR1:**
R236	Open		Normal operation.	AVR1:**
R237	Open		Normal operation.	AVR1:**
R238	Open		Normal operation.	AVR1:**
R239	Open		Normal operation.	AVR1:**
R240	Open		Normal operation.	AVR1:**
R241	Open		Normal operation.	AVR1:**
R501	Open		Normal operation.	AVR1:**
R502	Open	Except -12	Normal operation.	AVR1:**
R510	Open	Except -15, -24	Normal operation.	AVR1:**
R511	Open	Only -12	Normal operation.	AVR1:**
R520	Open		Normal operation.	AVR1:**
R521	Open		Normal operation.	AVR1:**
R522	Open		Normal operation.	AVR1:**
R523	Open		Normal operation.	AVR1:**
R601	Open		Output voltage decreased.	AVR1:decreased
R602	Open		Output voltage decreased.	AVR1:decreased
R604	Open		Normal operation.	AVR1:**
R605	Open		Output voltage decreased.	AVR1:decreased
R606	Open		No hazard.	AVR1:0
R607	Open		No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
R608	Open	Output voltage decreased.	AVR1:decreased

ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
C103	Open	Normal operation.	AVR1:*
C114	Short	Normal operation.	AVR1:*
C115	Short	Normal operation.	AVR1:*
C116	Short	Normal operation.	AVR1:*
C206	Short	F101 opened, No hazard.	AVR1:0
C220	Short	Normal operation.	AVR1:*
C221	Short	Normal operation.	AVR1:*
C501	Short	Normal operation.	AVR1:*
C502	Open		AVR1:decreased
	Short	Normal operation.	AVR1:*
C503	Open		AVR1:decreased
	Short	Normal operation.	AVR1:*
C504	Open		AVR1:decreased
	Short	Normal operation.	AVR1:*
C505	Open		AVR1:decreased
	Short	Normal operation.	AVR1:*
C506	Open		AVR1:decreased
	Short	Normal operation.	AVR1:*
C507	Open		AVR1:decreased
	Short	Normal operation.	AVR1:*
C508	Open		AVR1:decreased
	Short	Normal operation.	AVR1:*
C509	Open		AVR1:decreased
	Short	Normal operation.	AVR1:*

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C510	Open			AVR1:decreased
	Short		Normal operation.	AVR1:*
C511	Open			AVR1:decreased
	Short		Normal operation.	AVR1:*
C512	Open			AVR1:decreased
	Short		Normal operation.	AVR1:*
C513	Open			AVR1:decreased
	Short		Normal operation.	AVR1:*
C514	Open			AVR1:decreased
	Short		Normal operation.	AVR1:*
C518	Short		Normal operation.	AVR1:*
C519	Short		Normal operation.	AVR1:*
C520	Short		Normal operation.	AVR1:*
C521	Short		Normal operation.	AVR1:*
D106	Short		Normal operation.	AVR1:*
IC201	Open	10	F101 opened, No hazard.	AVR1:0
	Short	10-11	Normal operation.	AVR1:*
J102	Open		No hazard.	AVR1:0
SS501	Open	Cathode	Normal operation.	AVR1:*
	Short	C-A	No hazard.	AVR1:0
SS502	Open	Cathode	Normal operation.	AVR1:*
	Short	C-A	No hazard.	AVR1:0
T201	Open	8, 9	No hazard.	AVR1:0
		10, 11	No hazard.	AVR1:0

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
T201	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	F101 opened, No hazard.	AVR1:0
		4-5	No hazard.	AVR1:0
TR101	Open	D	Output voltage decreased.	AVR1:decreased
		S	Output voltage decreased.	AVR1:decreased
		G	Output voltage decreased.	AVR1:decreased
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	F101 opened, No hazard.	AVR1:0
TR201	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	F101 opened, No hazard.	AVR1:0
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	F101 opened, No hazard.	AVR1:0
TR202	Short	4-5	Normal operation.	AVR1:*
		5-6	Normal operation.	AVR1:*
ZD102	Open		Normal operation.	AVR1:*