

ABNORMAL TEST RESULT

OF MODEL PMA30F

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 : 2/11 ~ 10/11)

(Abnormal Test Result: 11/11 ~ 11/11)

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	Fuse opened, No hazard	AVR1:0
C102	Open	Normal operation.	
	Short	Fuse opened, No hazard	AVR1:0
C103	Open	Normal operation.	
	Short	Fuse opened, No hazard	AVR1:0
C108	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C109	Open	See 11 Page.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C110	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C111	Open	Normal operation.	
	Short	Normal operation.	
C112	Open	Normal operation.	
	Short	See 10 Page.	
C113	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C114	Open	Normal operation.	
	Short	Normal operation.	
C115	Open	Normal operation.	
	Short	Normal operation.	
C120	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C121	Open	except-24	Output voltage decreased. No hazard.	AVR1:decreased
	Short	except-24	Output voltage decreased. No hazard.	AVR1:decreased
C122	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
C130	Open		Normal operation.	
	Short		Fuse opened, No hazard	AVR1:0
C502	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C503	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C504	Open		Normal operation.	
	Short		Normal operation.	
C505	Open		Normal operation.	
	Short		Normal operation.	
C506	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C507	Open	except-15, -24	Normal operation.	
	Short	except-15, -24	Output voltage decreased. No hazard.	AVR1:decreased
C508	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C509	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C514	Open		Normal operation.	
	Short		See 10 Page.	

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Component	Mode		Comment	Output Voltage (V)
C524	Open	except-15	Output voltage decreased. No hazard.	AVR1:decreased
	Short	except-15	Output voltage decreased. No hazard.	AVR1:decreased
C525	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C528	Open	only-3R3	Output voltage decreased. No hazard.	AVR1:decreased
	Short	only-3R3	Output voltage decreased. No hazard.	AVR1:decreased
C529	Open	only-3R3, -24	Output voltage decreased. No hazard.	AVR1:decreased
	Short	only-3R3, -24	Output voltage decreased. No hazard.	AVR1:decreased
D101	Open		No Hazard.	AVR1:0
	Short		See 11 Page.	
D102	Open		Normal operation.	
	Short		Normal operation.	
D103	Open		See 11 Page.	
	Short		See 11 Page.	
D104	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D507	Open	except-15	Normal operation.	
	Short	except-15	Output voltage decreased. No hazard.	AVR1:decreased
D508	Open	except-15	Normal operation.	
	Short	except-15	Output voltage decreased. No hazard.	AVR1:decreased
IC101	Open	1 (CNT)	See 11 Page.	
		2 (S)	See 11 Page.	
		3 (D)	See 11 Page.	
	Short	1 (CNT) -2 (S)	See 11 Page.	

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Component	Mode		Comment	Output Voltage (V)
IC101	Short	1 (CNT)-3 (D)	See 11 Page.	
		2 (S)-3 (D)	See 11 Page.	
IC501	Open	K	No Hazard.	AVR1:0
		A	No Hazard.	AVR1:0
		R	No Hazard.	AVR1:0
	Short	A-K	Output voltage decreased. No hazard.	AVR1:decreased
		K-R	Output voltage decreased. No hazard.	AVR1:decreased
		R-A	No Hazard.	AVR1:0
J101	Open		Normal operation.	
J103	Open		Normal operation.	
J104	Open		Output voltage decreased. No hazard.	AVR1:decreased
J105	Open		No Hazard.	AVR1:0
J112	Open		Output voltage decreased. No hazard.	AVR1:0
J510	Open		No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L102	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L130	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L507	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
LED501	Open		Normal operation.	
	Short		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
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. No hazard.	AVR1:decreased
PC202	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	
		C-E	No Hazard.	AVR1:0
SS101	Open		No Hazard.	AVR1:0
	Short		Fuse opened, No hazard	AVR1:0
SS501	Open		See 11 Page.	
	Short		See 11 Page.	
T101	Open	1, 2	See 11 Page.	
		3, 4	See 11 Page.	
		7	See 11 Page.	
		6	See 11 Page.	
		9	See 11 Page.	
		10	See 11 Page.	
	Short	1, 2-3, 4	See 11 Page.	
		6-7	See 11 Page.	
		9-10	See 11 Page.	
TH101	Open		No Hazard.	AVR1:0
TR101	Open	E	Normal operation.	
		C	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR101	Open	B	Normal operation.	
	Short	E-C	No Hazard.	AVR1:0
		C-B	No Hazard.	AVR1:0
		E-B	Normal operation.	
TR102	Open	E	Normal operation.	
		C	Normal operation.	
		B	Normal operation.	
	Short	E-C	No Hazard.	AVR1:0
		C-B	No Hazard.	AVR1:0
		E-B	Normal operation.	
TR103	Open	E	Normal operation.	
		C	Normal operation.	
		B	Normal operation.	
	Short	E-C	No Hazard.	AVR1:0
		C-B	No Hazard.	AVR1:0
		E-B	Normal operation.	
VR501	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage increased. No hazard.	AVR1:increased(120%)
ZD101	Open	A-K	Normal operation.	
	Short	A-K	No Hazard.	AVR1:0
ZD501	Open	only-15, -24	Normal operation.	
	Short	only-15, -24	No Hazard.	AVR1:0
ZD502	Open	only-15, -24	Normal operation.	



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Component	Mode		Comment	Output Voltage (V)
ZD502	Short	only-15, -24	No Hazard.	AVR1:0
ZD503	Open	except-15, -24	Normal operation.	
	Short	except-15, -24	No Hazard.	AVR1:0
R105	Open		Normal operation.	
R106	Open		Normal operation.	
R107	Open		Normal operation.	
R108	Open		Normal operation.	
R109	Open		Normal operation.	
R111	Open		Normal operation.	
R113	Open		Output voltage decreased. No hazard.	AVR1:decreased
R114	Open		See 11 Page.	
R115	Open		Normal operation.	
R116	Open		Normal operation.	
R117	Open		Normal operation.	
R118	Open		Normal operation.	
R119	Open		Normal operation.	
R120	Open		Normal operation.	
R121	Open		Normal operation.	
R122	Open		Normal operation.	
R123	Open		Normal operation.	
R130	Open		Normal operation.	
R131	Open		Normal operation.	
R132	Open	only-3R3, -5	Normal operation.	
R133	Open	only-3R3, -5	Normal operation.	



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Component	Mode		Comment	Output Voltage (V)
R134	Open	only-3R3, -5	Normal operation.	
R135	Open	only-3R3, -5	Normal operation.	
R151	Open		Normal operation.	
R152	Open		Normal operation.	
R153	Open		Normal operation.	
R154	Open		Normal operation.	
R155	Open		Normal operation.	
R501	Open		Normal operation.	
R502	Open		Normal operation.	
R503	Open		Output voltage decreased. No hazard.	AVR1:decreased
R504	Open		Normal operation.	
R505	Open		Output voltage decreased. No hazard.	AVR1:decreased
R506	Open		No Hazard.	AVR1:0
R507	Open		No Hazard.	AVR1:0
R508	Open	except-15, -24	No Hazard.	AVR1:0
R509	Open		Output voltage decreased. No hazard.	AVR1:decreased
R510	Open		Normal operation.	
R511	Open		Normal operation.	
R512	Open	only-3R3, -5	Normal operation.	
R513	Open	only-3R3, -5	Normal operation.	
R517	Open		Normal operation.	
R519	Open	except-15	Normal operation.	
R521	Open		Normal operation.	
R522	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R523	Open	except-24	Normal operation.	
R524	Open		Normal operation.	
R525	Open		Normal operation.	
R526	Open		Normal operation.	
R527	Open		Normal operation.	
R529	Open		Output voltage decreased. No hazard.	AVR1:decreased
R532	Open	only-3R3, -24	Output voltage decreased. No hazard.	AVR1:decreased
R540	Open		Normal operation.	
R541	Open		Normal operation.	
R542	Open		Normal operation.	
R543	Open		Normal operation.	
R544	Open		Normal operation.	
R545	Open		Normal operation.	
R546	Open		Normal operation.	
R547	Open		Normal operation.	
R548	Open		Normal operation.	
R549	Open		Normal operation.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C109	Open		Output voltage decreased. No hazard.	AVR1:decreased
D101	Short		No Hazard.	AVR1:0
D103	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
IC101	Open	1 (CNT)	No Hazard.	AVR1:0
		2 (S)	No Hazard.	AVR1:0
		3 (D)	No Hazard.	AVR1:0
	Short	1 (CNT) -2 (S)	No Hazard.	AVR1:0
		1 (CNT) -3 (D)	Fuse opened, No hazard	AVR1:0
		2 (S) -3 (D)	Fuse opened, No hazard	AVR1:0
SS501	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
T101	Open	1, 2	No Hazard.	AVR1:0
		3, 4	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		9	No Hazard.	AVR1:0
		10	No Hazard.	AVR1:0
	Short	1, 2-3, 4	No Hazard.	AVR1:0
		6-7	No Hazard.	AVR1:0
		9-10	No Hazard.	AVR1:0
R114	Open		Output voltage decreased. No hazard.	AVR1:decreased