

ABNORMAL TEST RESULT

OF MODEL PMA15F

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 : 2/10 ~ 8/10)

(Abnormal Test Result: 9/10 ~ 10/10)

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	See 9 Page.	
	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 9 Page.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C110	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
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.	
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

F M E A

Component	Mode		Comment	Output Voltage (V)
C503	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C506	Open		Normal operation.	
	Short		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
C524	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short	only-3R3, -5	Output voltage decreased. No hazard.	AVR1:decreased
C525	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C528	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C530	Open	only-24	Output voltage decreased. No hazard.	AVR1:decreased
	Short	only-24	Output voltage decreased. No hazard.	AVR1:decreased
D101	Open		No Hazard.	AVR1:0
	Short		See 9 Page.	
D102	Open		Normal operation.	
	Short		Normal operation.	
D103	Open		No Hazard.	AVR1:0
	Short		See 9 Page.	
D502	Open		Normal operation.	
	Short		See 9 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D503	Open	except-24	See 9 Page.	
	Short	except-24	See 9 Page.	
D504	Open	only-3R3, -5	See 9 Page.	
	Short	only-3R3, -5	See 9 Page.	
IC101	Open	1 (CNT)	See 9 Page.	
		2 (S)	See 9 Page.	
		3 (D)	See 9 Page.	
	Short	1 (CNT)-2 (S)	See 9 Page.	
		1 (CNT)-3 (D)	See 9 Page.	
		2 (S)-3 (D)	See 9 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
J102	Open		No Hazard.	AVR1:0
J103	Open		Normal operation.	
J501	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

F M E A

Component	Mode		Comment	Output Voltage (V)
L130	Short		Normal operation.	
L507	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
LED501	Open		Normal operation.	
	Short		Normal operation.	
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
T101	Open	1	See 9 Page.	
		2	See 9 Page.	
		4	See 9 Page.	
		5	See 9 Page.	
		6, 7	See 9 Page.	
		8, 9	See 9 Page.	
	Short	1-2	See 9 Page.	
		4-5	See 9 Page.	
		6, 7-8, 9	See 9 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TH101	Open		No Hazard.	AVR1:0
TR101	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	Normal operation.	
TR102	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	Normal operation.	
TR103	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	Normal operation.	
VR501	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0
ZD101	Open	A-K	Normal operation.	
	Short	A-K	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
ZD501	Open	only-15, -24	Normal operation.	
	Short	only-15, -24	No Hazard.	AVR1:0
ZD502	Open	only-15, -24	Normal operation.	
	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 10 Page.	
R115	Open		No Hazard.	AVR1:0
R116	Open		No Hazard.	AVR1:0
R121	Open		Normal operation.	
R122	Open		Normal operation.	
R123	Open		Normal operation.	
R151	Open		Normal operation.	
R152	Open		Normal operation.	
R153	Open		Normal operation.	
R154	Open		Normal operation.	
R155	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
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		Output voltage decreased. No hazard.	AVR1:decreased
R508	Open	except-15, -24	No Hazard.	AVR1:0
R509	Open		Output voltage decreased. No hazard.	AVR1:decreased
R510	Open	only-24	Normal operation.	
R517	Open		Normal operation.	
R519	Open	except-12, -15	Normal operation.	
R521	Open		Normal operation.	
R522	Open		Normal operation.	
R523	Open		Normal operation.	
R524	Open	only-3R3, -5	Normal operation.	
R525	Open	only-3R3	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C102	Open		Fuse opened, No hazard.	AVR1:0
C109	Open		Normal operation.	
D101	Short		No Hazard.	AVR1:0
D103	Short		No Hazard.	AVR1:0
D502	Short		No Hazard.	AVR1:0
D503	Open	except-24	Normal operation.	
	Short	except-24	No Hazard.	AVR1:0
D504	Open	only-3R3, -5	Normal operation.	
	Short	only-3R3, -5	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
T101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6, 7	No Hazard.	AVR1:0
		8, 9	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
		6, 7-8, 9	No Hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode	Comment	Output Voltage (V)
R114	Open	Normal operation.	