

## ABNORMAL TEST RESULT

OF MODEL PBA15F

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	F101 opened, No hazard.	AVR1:0
C102	Open	See 9 Page.	AVR1:0
	Short	F101 opened, No hazard.	AVR1:0
C108	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C109	Open	See 9 Page.	
	Short	No Hazard.	AVR1:0
C110	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C113	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C114	Open	Normal operation.	
	Short	Normal operation.	
C115	Open	Normal operation.	
	Short	Normal operation.	
C120	Open	Normal operation.	
	Short	Normal operation.	
C502	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C503	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C506	Open	Normal operation.	
	Short	No Hazard.	AVR1:0

## F M E A

Component	Mode		Comment	Output Voltage (V)
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	only 3.3, 5V	Output voltage decreased. No hazard.	AVR1:decreased
	Short	only 3.3, 5V	Output voltage decreased. No hazard.	AVR1:decreased
C530	Open	only 24, 48V	Output voltage decreased. No hazard.	AVR1:decreased
	Short	only 24, 48V	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.	
D503	Open	except 24, 48V	See 9 Page.	
	Short	except 24, 48V	See 9 Page.	
D504	Open	only 3.3, 5V	See 9 Page.	
	Short	only 3.3, 5V	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.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
IC101	Short	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
J501	Open	except 48V	No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L102	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L507	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
LED501	Open		Normal operation.	
	Short		Normal operation.	
PC201	Open	A, K	Normal operation.	AVR1:0
		C, E	No Hazard.	AVR1:0
	Short	A-K	No Hazard.	AVR1:0
		C-E	No Hazard.	AVR1:0
PC202	Open	A, K	Normal operation.	
		C, E	Normal operation.	
	Short	A-K	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
PC202	Short	C-E	No Hazard.	AVR1:0
SK101	Open		Normal operation.	
	Short		F101 opened, No hazard.	AVR1:0
SS101	Open		No Hazard.	AVR1:0
	Short		F101 opened, No hazard.	AVR1:0
T101	Open	1	See 9 Page.	
		2	See 9 Page.	
		4	See 9 Page.	
		5	See 9 Page.	
		8	See 9 Page.	
		9	See 9 Page.	
	Short	1-2	See 9 Page.	
		4-5	See 9 Page.	
		8-9	See 9 Page.	
TH101	Open		No Hazard.	AVR1:0
TR101	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.	
TR102	Open	E	Normal operation.	
		C	Normal operation.	
		B	Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR102	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%)
ZD501	Open	only 15, 24, 48V	Normal operation.	
	Short	only 15, 24, 48V	No Hazard.	AVR1:0
ZD502	Open	only 15, 24, 48V	Normal operation.	
	Short	only 15, 24, 48V	No Hazard.	AVR1:0
ZD503	Open	only 3.3, 5, 9, 12V	Normal operation.	
	Short	only 3.3, 5, 9, 12V	No Hazard.	AVR1:0
ZD504	Open	only 48V	Normal operation.	
	Short	only 48V	No Hazard.	AVR1:0
R105	Open		Normal operation.	
R106	Open		Normal operation.	
R107	Open		Normal operation.	
R108	Open		Normal operation.	

## F M E A

Component	Mode		Comment	Output Voltage (V)
R109	Open		Normal operation.	
R111	Open		Normal operation.	
R113	Open		No Hazard.	AVR1:0
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.	
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, 48V	No Hazard.	AVR1:0
R509	Open		Output voltage decreased. No hazard.	AVR1:decreased
R510	Open	only 24V	Normal operation.	
R517	Open		Normal operation.	
R518	Open	only 48V	Normal operation.	
R519	Open	except 9, 12, 15V	Normal operation.	
R521	Open		Normal operation.	
R522	Open		Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R523	Open		Normal operation.	
R524	Open	except 9, 12, 15V	Normal operation.	
R525	Open	only 3R3, 48V	Normal operation.	
R526	Open	only 48V	Normal operation.	



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C102	Open		F101 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		Normal operation.	
	Short	except 24, 48V	No Hazard.	AVR1:0
D504	Open		Normal operation.	
	Short	only 3.3, 5V	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)	F101 opened, No hazard.	AVR1:0
		2 (S)-3 (D)	F101 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
		8	No Hazard.	AVR1:0
		9	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
		8-9	No Hazard.	AVR1:0



ABNORMAL TEST RESULT

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