

ABNORMAL TEST RESULT

OF MODEL PBA30F

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 ~ 9/10)

(Abnormal Test Result: 10/10 ~ 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		Normal operation.	
	Short		F101 opened, No hazard	AVR1:0
C103	Open		Normal operation.	
	Short		F101 opened, No hazard	AVR1:0
C108	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
C109	Open		See 10 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.	
C121	Open	except 24, 48V	Output voltage decreased. No hazard.	AVR1:decreased
	Short	except 24, 48V	No Hazard.	AVR1:0
C502	Open		Normal operation.	
	Short		No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
C503	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C504	Open		Normal operation.	
	Short		Normal operation.	AVR1:decreased
C505	Open		Normal operation.	
	Short		Normal operation.	AVR1:decreased
C506	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C507	Open	except 15, 24, 48V	Normal operation.	
	Short	except 15, 24, 48V	No Hazard.	AVR1:0
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	except 15V	Output voltage decreased. No hazard.	AVR1:decreased
	Short	except 15V	Output voltage decreased. No hazard.	AVR1:decreased
C528	Open	only 3.3V	Output voltage decreased. No hazard.	AVR1:decreased
	Short	only 3.3V	Output voltage decreased. No hazard.	AVR1:decreased
C529	Open	only 3.3, 24V	Output voltage decreased. No hazard.	AVR1:decreased
	Short	only 3.3, 24V	Output voltage decreased. No hazard.	AVR1:decreased
D101	Open		No Hazard.	AVR1:0
	Short		See 10 Page.	
D102	Open		Normal operation.	
	Short		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D103	Open		See 10 Page.	
	Short		See 10 Page.	
D104	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D507	Open	except 15V	Normal operation.	
	Short	except 15V	Output voltage decreased. No hazard.	AVR1:decreased
D508	Open	except 15V	Normal operation.	
	Short	except 15V	Output voltage decreased. No hazard.	AVR1:decreased
IC101	Open	1 (CNT)	See 10 Page.	
		2 (S)	See 10 Page.	
		3 (D)	See 10 Page.	
	Short	1 (CNT)-2 (S)	See 10 Page.	
		1 (CNT)-3 (D)	See 10 Page.	
		2 (S)-3 (D)	See 10 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.	
J111	Open		No Hazard.	AVR1:0
J510	Open	except 48V	No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
L101	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	No Hazard.	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.	
		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
SS501	Open	Cathode	See 10 Page.	
		Alternative	See 10 Page.	
	Short		See 10 Page.	
T101	Open	2or3	See 10 Page.	
		4or5	See 10 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
T101	Open	6	See 10 Page.	
		7	See 10 Page.	
		9	See 10 Page.	
		10	See 10 Page.	
	Short	2or3-4or5	See 10 Page.	
		6-7	See 10 Page.	
		9-10	See 10 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.	
	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

F M E A

Component	Mode		Comment	Output Voltage (V)
TR103	Short	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	except 15, 24, 48V	Normal operation.	
	Short	except 15, 24, 48V	No Hazard.	AVR1:0
ZD505	Open	only 48V	No Hazard.	AVR1:0
	Short	only 48V	Output voltage decreased. No hazard.	AVR1:decreased
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		No Hazard.	AVR1:0
R114	Open		See 10 Page.	
R115	Open		Normal operation.	
R116	Open		Normal operation.	
R117	Open		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
R118	Open		Normal operation.	
R119	Open	only 3.3, 5V	Normal operation.	
R120	Open	only 3.3, 5V	Normal operation.	
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		No Hazard.	AVR1:0
R508	Open	except 15, 24, 48V	No Hazard.	AVR1:0
R509	Open	except 3.3V	Output voltage decreased. No hazard.	AVR1:decreased
R510	Open		Normal operation.	
R511	Open		Normal operation.	
R512	Open	except 12, 15, 24V	Normal operation.	
R513	Open	except 12, 15, 24V	Normal operation.	
R517	Open		Normal operation.	
R518	Open	only 48V	Normal operation.	
R519	Open	except 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		Normal operation.	
R525	Open		Normal operation.	
R526	Open		Normal operation.	
R529	Open		Output voltage decreased. No hazard.	AVR1:decreased
R532	Open	only 3.3, 24V	Output voltage decreased. No hazard.	AVR1:decreased

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)	F101 opened, No hazard	AVR1:0
		2 (S) -3 (D)	F101 opened, No hazard	AVR1:0
SS501	Open	Cathode	No Hazard.	AVR1:0
		Alternative	Normal operation.	
	Short		No Hazard.	AVR1:0
T101	Open	2or3	No Hazard.	AVR1:0
		4or5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		9	No Hazard.	AVR1:0
		10	No Hazard.	AVR1:0
	Short	2or3-4or5	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