CO$EL

ABNORMAL TEST RESULT

OF MODEL PBA100F

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 ～ 17/19)
       (Abnormal Test Result: 18/19 ～ 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.

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<u>F M E A</u>

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	Normal operation.	
	Short	Normal operation.	
C109	Open	See 18 Page.	
	Short	See 18 Page.	
C110	Open	See 18 Page.	
	Short	See 18 Page.	
C111	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C112	Open	Normal operation.	
	Short	Normal operation.	
C113	Open	Normal operation.	
	Short	Normal operation.	
C115	Open	Normal operation.	
	Short	Normal operation.	
C116	Open	Normal operation.	
	Short	Normal operation.	
C118	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0

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Component	Mode	Comment	Output Voltage (V)
C119	Open	Normal operation.	
	Short	F101 opened, No hazard.	AVR1:0
C129	Open	Normal operation.	
	Short	Normal operation.	
C201	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C202	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C203	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C204	Open	No Hazard.	AVR1:0
	Short	No Hazard.	AVR1:0
C205	Open	Normal operation.	
	Short	Normal operation.	
C206	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Normal operation.	
C207	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Normal operation.	
C208	Open	Normal operation.	
	Short	Normal operation.	
C209	Open	Normal operation.	
	Short	Normal operation.	
C211	Open	Normal operation.	
	Short	Normal operation.	

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F M E A

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Component	Mode		Comment	Output Voltage (V)
C501	Open		Normal operation.	
	Short		Normal operation.	
C502	Open		Normal operation.	
	Short		Normal operation.	
C503	Open		Normal operation.	
	Short		Normal operation.	
C504	Open		Normal operation.	
	Short		Normal operation.	
C505	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C506	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C507	Open	except36, 48	Normal operation.	
	Short	except36, 48	No Hazard.	AVR1:0
C508	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C509	Open	only 3. 3, 5	Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C512	Open	only48	Normal operation.	
	Short	only48	Normal operation.	.
C513	Open	only3. 3	Normal operation.	
	Short	only3. 3	Output voltage decreased. No hazard.	AVR1:decreased
C514	Open	only24, 36, 48	Normal operation.	
	Short	only24, 36, 48	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
C519	Open	except48	Normal operation.	
	Short	except48	No Hazard.	AVR1:0
C520	Open		Normal operation. except3. 3, 5, 48	
	Short		No Hazard. except3. 3, 5, 48	AVR1:0
C551	Open	only3. 3, 5	See 18 Page.	
	Short	only3. 3, 5	Normal operation.	
D101	Open		Normal operation.	
	Short		Normal operation.	
D102	Open		F101 opened, No hazard.	AVR1:0
	Short		F101 opened, No hazard.	AVR1:0
D103	Open		See 18 Page.	
	Short		See 18 Page.	
D104	Open		See 18 Page.	
	Short		See 18 Page.	
D105	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D106	Open		See 18 Page.	
	Short		See 18 Page.	
D107	Open		Normal operation.	
	Short		Normal operation.	
D108	Open		Normal operation.	
	Short		Normal operation.	
D109	Open		Normal operation.	
	Short		Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
D110	Open		Normal operation.	
	Short		Normal operation.	
D201	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
D202	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
D203	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D204	Open		Normal operation.	
	Short		Normal operation.	
D205	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
IC101	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	Normal operation.	
		4	Normal operation.	
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	F101 opened, No hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	
		5-6	No Hazard.	AVR1:0

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Component	Mode		Comment	Output Voltage (V)
IC101	Short	6-7	No Hazard.	AVR1:0
		7-8	F101 opened, No hazard.	AVR1:0
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	F101 opened, No hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	Normal operation.	
		9	Normal operation.	
		10	No Hazard.	AVR1:0
		11	No Hazard.	AVR1:0
		12	No Hazard.	AVR1:0
		13	Output voltage decreased. No hazard.	AVR1:decreased
		14	Normal operation.	
		15	Normal operation.	
		16	Normal operation.	
		17	No Hazard.	AVR1:0
		18	Output voltage decreased. No hazard.	AVR1:decreased
		19	Output voltage decreased. No hazard.	AVR1:decreased
		20	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	No Hazard.	AVR1:0

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参考資料

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Component	Mode		Comment	Output Voltage (V)
IC201	Short	3-4	Normal operation.	
		4-5	Normal operation.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	Normal operation.	
		8-9	Normal operation.	
		9-10	No Hazard.	AVR1:0
		11-12	No Hazard.	AVR1:0
		12-13	No Hazard.	AVR1:0
		13-14	Normal operation.	
		14-15	Normal operation.	
		15-16	Normal operation.	
		16-17	Normal operation.	
		17-18	Normal operation.	
		18-19	Normal operation.	
		19-20	No Hazard.	AVR1:0
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
J201	Open		No Hazard.	AVR1:0
J501	Open		Normal operation. except15, 24, 36, 48	

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Component	Mode		Comment	Output Voltage (V)
J502	Open	except36,48	No Hazard.	AVR1:0
J503	Open		No Hazard.	AVR1:0
J504	Open		No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L102	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L103	Open	1, 6	No Hazard.	AVR1:0
		2, 5	No Hazard.	AVR1:0
		3, 5	See 18 Page.	
	Short	1-6	F101 opened, No hazard.	AVR1:0
		2-5	F101 opened, No hazard.	AVR1:0
		3-5	F101 opened, No hazard.	AVR1:0
L104	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L507	Open		F101 opened, No hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
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.	

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Component	Mode		Comment	Output Voltage (V)
PC202	Open	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	Cathpde	F101 opened, No hazard. except3.3,5	AVR1:0
		Alternative	See 18 Page.	
	Short	Cathode	No Hazard. except3.3,5	AVR1:0
SS502	Open	Cathpde	F101 opened, No hazard. except3.3,5	AVR1:0
		Alternative	See 18 Page.	
	Short	Cathode	No Hazard. except3.3,5	AVR1:0
T201	Open	1,6 only3.3,	See 18 Page.	
		2,3	F101 opened, No hazard.	AVR1:0
		4,5	F101 opened, No hazard.	AVR1:0
		7,8	No Hazard.	AVR1:0
		10,12	No Hazard.	AVR1:0
	Short	1-6 only3.3,	F101 opened, No hazard.	AVR1:0
		2,3-4,5	F101 opened, No hazard.	AVR1:0
		7-8	F101 opened, No hazard.	AVR1:0
		10-12	F101 opened, No hazard.	AVR1:0
TH101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR101	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	No Hazard.	AVR1:0
		S-G	Normal operation.	
		G-D	No Hazard.	AVR1:0
TR102	Open	D	See 18 Page.	
		S	See 18 Page.	
		G	See 18 Page.	
	Short	D-S	See 18 Page.	
		S-G	See 18 Page.	
		G-D	See 18 Page.	
TR103	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR105	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	Normal operation.	
		E-B	No Hazard.	AVR1:0
		B-C	Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
TR201	Open	D	See 18 Page.	
		S	See 18 Page.	
		G	See 18 Page.	
	Short	D-S	See 19 Page.	
		S-G	See 19 Page.	
		G-D	See 19 Page.	
TR501	Open	D	No Hazard. only3.3,5	AVR1:0
		S	No Hazard. only3.3,5	AVR1:0
		G	See 19 Page. only3.3,5	
	Short	D-S	No Hazard. only3.3,5	AVR1:0
		S-G	See 19 Page. only3.3,5	
		G-D	See 19 Page. only3.3,5	
TR502	Open	D	No Hazard. only3.3,5	AVR1:0
		S	No Hazard. only3.3,5	AVR1:0
		G	See 19 Page. only3.3,5	
	Short	D-S	No Hazard. only3.3,5	AVR1:0
		S-G	See 19 Page. only3.3,5	
		G-D	See 19 Page. only3.3,5	
VR501	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			Output voltage decreased. No hazard.	AVR1:decreased
	Short		No Hazard.	AVR1:0
ZD121	Open		Normal operation.	
	Short		Normal operation.	
ZD123	Open		Normal operation.	

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Component	Mode		Comment	Output Voltage (V)
ZD123	Short		Normal operation.	
ZD501	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
ZD502	Open		Normal operation. only15, 24, 36, 48	
	Short		No Hazard. only15, 24, 36, 48	AVR1:0
ZD503	Open	only36, 48	No Hazard.	AVR1:0
	Short	only36, 48	Normal operation.	
ZD551	Open		See 19 Page.	
	Short		See 19 Page.	
R101	Open		Normal operation.	
R102	Open		Normal operation.	
R103	Open		Normal operation.	
R104	Open		Normal operation.	
R105	Open		Normal operation.	
R106	Open		Normal operation.	
R107	Open		Normal operation.	
R108	Open		Normal operation.	
R109	Open		Normal operation.	
R110	Open		Normal operation.	
R111	Open		Normal operation.	
R112	Open		Normal operation.	
R113	Open		Normal operation.	
R114	Open		Normal operation.	
R115	Open		Normal operation.	

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<u>F M E A</u>

Component	Mode	Comment	Output Voltage (V)
R116	Open	Normal operation.	
R117	Open	See 19 Page.	
R119	Open	F101 opened, No hazard.	AVR1:0
R120	Open	No Hazard.	AVR1:0
R123	Open	Normal operation.	
R124	Open	No Hazard.	AVR1:0
R125	Open	No Hazard.	AVR1:0
R126	Open	No Hazard.	AVR1:0
R127	Open	No Hazard.	AVR1:0
R128	Open	No Hazard.	AVR1:0
R129	Open	No Hazard.	AVR1:0
R130	Open	No Hazard.	AVR1:0
R131	Open	Normal operation.	
R132	Open	Normal operation.	
R133	Open	Normal operation.	
R136	Open	Normal operation.	
R137	Open	Normal operation.	
R138	Open	Normal operation.	
R139	Open	Normal operation.	
R151	Open	Normal operation.	
R152	Open	No Hazard.	AVR1:0
R153	Open	Normal operation.	
R201	Open	Normal operation.	
R202	Open	Normal operation.	

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Component	Mode	Comment	Output Voltage (V)
R203	Open	Normal operation.	
R204	Open	Normal operation.	
R205	Open	No Hazard.	AVR1:0
R206	Open	Normal operation.	
R207	Open	No Hazard.	AVR1:0
R208	Open	Output voltage decreased. No hazard.	AVR1:decreased
R209	Open	Normal operation.	
R210	Open	F101 opened, No hazard.	AVR1:0
R211	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	No Hazard.	AVR1:0
R214	Open	Normal operation.	
R215	Open	Normal operation.	
R216	Open	Output voltage decreased. No hazard.	AVR1:decreased
R218	Open	Normal operation.	
R219	Open	Normal operation.	
R220	Open	Normal operation.	
R221	Open	Normal operation.	
R230	Open	Normal operation.	
R501	Open	Normal operation.	
R502	Open	Normal operation.	
R503	Open	No Hazard.	AVR1:0
R504	Open	Normal operation.	
R505	Open	Output voltage decreased. No hazard.	AVR1:decreased

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Component	Mode		Comment	Output Voltage (V)
R506	Open		No Hazard.	AVR1:0
R507	Open		Output voltage decreased. No hazard.	AVR1:decreased
R508	Open	only9, 36	No Hazard.	AVR1:0
R509	Open		No Hazard.	AVR1:0
R510	Open		Normal operation.	
R511	Open		Normal operation.	
R512	Open		Normal operation.	
R513	Open		Normal operation.	
R514	Open		Normal operation.	
R515	Open		Normal operation.	
R516	Open	only48	Normal operation.	
R517	Open		Normal operation.	
R518	Open		Normal operation.	
R521	Open		Normal operation.	
R522	Open		Normal operation.	
R523	Open		Normal operation.	
R524	Open		Normal operation.	
R525	Open		Normal operation.	
R526	Open		Normal operation.	
R527	Open	except5	Normal operation.	
R528	Open	except5, 36	Normal operation.	
R529	Open	only9, 12, 48	Normal operation.	
R530	Open	only12	Normal operation.	
R540	Open		Output voltage decreased. No hazard.	AVR1:decreased

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Component	Mode		Comment	Output Voltage (V)
R551	Open	only3.3,5	Normal operation.	
R552	Open	only3.3,5	Normal operation.	
R554	Open	only3.3,5	Normal operation.	
R555	Open	only3.3,5	Normal operation.	
R556	Open	only3.3,5	Normal operation.	

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ABNORMAL TEST RESULT

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Component	Mode		Comment	Output Voltage (V)
C109	Open		Normal operation.	
	Short		Normal operation.	
C110	Open		Normal operation.	
	Short		Normal operation.	
C551	Open	only3. 3, 5	Normal operation.	
D103	Open		Normal operation.	
	Short		Normal operation.	
D104	Open		Normal operation.	
	Short		Normal operation.	
D106	Open		Normal operation.	
	Short		Normal operation.	
L103	Open	3, 5	Normal operation.	
SS501	Open	Alternative	Normal operation. except3. 3, 5	
SS502	Open	Alternative	Normal operation. except3. 3, 5	
T201	Open	1, 6	No Hazard. only3. 3, 5	AVR1:0
TR102	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	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
TR201	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0

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ABNORMAL TEST RESULT

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Component	Mode		Comment	Output Voltage (V)
TR201	Short	D–S	F101 opened, No hazard.	AVR1:0
		S–G	No Hazard.	AVR1:0
		G–D	F101 opened, No hazard.	AVR1:0
TR501	Open	G only3.3,5	No Hazard.	AVR1:0
	Short	S–G	No Hazard. only3.3,5	AVR1:0
		G–D only3.3,5	No Hazard.	AVR1:0
TR502	Open	G only3.3,5	No Hazard.	AVR1:0
	Short	S–G	No Hazard. only3.3,5	AVR1:0
		G–D	No Hazard. only3.3,5	AVR1:0
ZD551	Open	only3.3,5	No Hazard.	AVR1:0
	Short	only3.3,5	No Hazard.	AVR1:0
R117	Open		Normal operation.	