

ABNORMAL TEST RESULT

OF MODEL LFA240F

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 : 2/22 ~ 20/22)

(Abnormal Test Result: 21/22 ~ 22/22)

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	R111 opened, No hazard.	AVR1:0
C104	Open	Normal operation.	
	Short	R111 opened, No hazard.	AVR1:0
C110	Open	Normal operation.	
	Short	Normal operation.	
C111	Open	Normal operation.	
	Short	Normal operation.	
C113	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C114	Open	Normal operation.	
	Short	Normal operation.	
C115	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C116	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C117	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C118	Open	Normal operation.	
	Short	No Hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C119	Open	Normal operation.	
	Short	Normal operation.	
C120	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C121	Open	Normal operation.	
	Short	Normal operation.	
C122	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C123	Open	Normal operation.	
	Short	Normal operation.	
C124	Open	Normal operation.	
	Short	Normal operation.	
C127	Open	Normal operation.	
	Short	See 21 Page.	
C128	Open	Normal operation.	
	Short	See 21 Page.	
C130	Open	Normal operation.	
	Short	R111 opened, No hazard.	AVR1:0
C131	Open	No Hazard.	AVR1:0
	Short	Normal operation.	
C201	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C202	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased

F M E A

Component	Mode	Comment	Output Voltage (V)
C203	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C204	Open	Normal operation.	
	Short	See 21 Page.	
C205	Open	Normal operation.	
	Short	Normal operation.	
C206	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C207	Open	Normal operation.	
	Short	Normal operation.	
C208	Open	Normal operation.	
	Short	Normal operation.	
C211	Open	Normal operation.	
	Short	Normal operation.	
C212	Open	Normal operation.	
	Short	Output voltage decreased.	AVR1:decreased
C216	Open	Normal operation.	
	Short	See 21 Page.	
C217	Open	Normal operation.	
	Short	See 21 Page.	
C221	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C501	Open	Normal operation.	
	Short	See 21 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C502	Open		Normal operation.	
	Short		See 21 Page.	
C503	Open		Normal operation.	
	Short		See 21 Page.	
C504	Open		Normal operation.	
	Short		See 21 Page.	
C505	Open	except 36	Normal operation.	
	Short	except 36	Normal operation.	
C506	Open	except 36	Normal operation.	
	Short	except 36	Normal operation.	
C512	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C513	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
C601	Open	only 36	Output voltage decreased.	AVR1:decreased
	Short	only 36	Output voltage decreased.	AVR1:decreased
C602	Open	except 36	Output voltage decreased.	AVR1:decreased
	Short	except 36	Output voltage decreased.	AVR1:decreased
C603	Open		Output voltage decreased.	AVR1:decreased
	Short		Output voltage decreased.	AVR1:decreased
C605	Open		Output voltage decreased.	AVR1:decreased
	Short		Output voltage decreased.	AVR1:decreased
D101	Open		R111 opened, No hazard.	AVR1:0
	Short		R111 opened, No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
D102	Open	R111 opened, No hazard.	AVR1:0
	Short	R111 opened, No hazard.	AVR1:0
D103	Open	Normal operation.	
	Short	Normal operation.	
D104	Open	Normal operation.	
	Short	Normal operation.	
D105	Open	Normal operation.	
	Short	Normal operation.	
D106	Open	Normal operation.	
	Short	Normal operation.	
D107	Open	Normal operation.	
	Short	Normal operation.	
D108	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D109	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D111	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
D201	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	No Hazard.	AVR1:0
D202	Open	Output voltage decreased. No hazard.	AVR1:decreased
	Short	Normal operation.	
D203	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D204	Open		Normal operation.	
	Short		Normal operation.	
D205	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
D206	Open		Normal operation.	
	Short		Normal operation.	
D211	Open		Normal operation.	
	Short		Normal operation.	
IC101	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	
		3	Normal operation.	
		4	No Hazard.	AVR1:0
		5	Normal operation.	
		6	No Hazard.	AVR1:0
		7	No Hazard.	AVR1:0
		8	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		3-4	Normal operation.	
		5-6	No Hazard.	AVR1:0
		6-7	No Hazard.	AVR1:0
		7-8	No Hazard.	AVR1:0
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	3	Normal operation.	
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		7	Normal operation.	
		8	Output voltage decreased.	AVR1:decreased
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	
		5-6	No Hazard.	AVR1:0
		6-7	Normal operation.	
		7-8	Normal operation.	
IC601	Open	K	No Hazard.	AVR1:0
		A	No Hazard.	AVR1:0
		R	No Hazard.	AVR1:0
	Short	A-K	Output voltage decreased.	AVR1:decreased
		K-R	Output voltage decreased.	AVR1:decreased
		R-A	No Hazard.	AVR1:0
J201	Open		Normal operation.	
J203	Open		Normal operation.	
J601	Open	only 24	No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L102	Open		No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
L102	Short		Normal operation.	
L103	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
L104	Open	2	R111 opened, No hazard.	AVR1:0
		3	R111 opened, No hazard.	AVR1:0
		4, 5	No Hazard.	AVR1:0
		6, 7	No Hazard.	AVR1:0
		9	Normal operation.	
		10	Normal operation.	
	Short	2-3	R111 opened, No hazard.	AVR1:0
		3-4, 5	R111 opened, No hazard.	AVR1:0
		9-10	R111 opened, No hazard.	AVR1:0
L507	Open		F101 opened, No hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
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
PTH201	Open		No Hazard.	AVR1:0
	Short		Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
PTH202	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
SCR101	Open	T1	R111 opened, No hazard.	AVR1:0
		T2	R111 opened, No hazard.	AVR1:0
		G	R111 opened, No hazard.	AVR1:0
	Short	T1-T2	Normal operation.	
		T1-G	R111 opened, No hazard.	AVR1:0
		T2-G	R111 opened, No hazard.	AVR1:0
SS101	Open		No Hazard.	AVR1:0
	Short		F101 opened, No hazard.	AVR1:0
SS102	Open	Cathode	F101 opened, No hazard.	AVR1:0
		Alternative	See 21 Page.	
	Short		F101 opened, No hazard.	AVR1:0
SS501	Open	Cathode	No Hazard.	AVR1:0
		Alternative	See 21 Page.	
	Short		No Hazard.	AVR1:0
SS502	Open	Cathode	No Hazard.	AVR1:0
		Alternative	See 21 Page.	
	Short		No Hazard.	AVR1:0
T201	Open	1, 2, 4, 5	F101 opened, No hazard.	AVR1:0
		6	No Hazard.	AVR1:0
		8	Normal operation.	
		9, 10	Output voltage decreased. No hazard.	AVR1:decreased
		11	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
T201	Short	8-9	Normal operation.	
		9-10	F101 opened, No hazard.	AVR1:0
		10-11	See 22 Page.	
TR101	Open	D	See 21 Page.	
		S	See 21 Page.	
		G	See 21 Page.	
	Short	D-S	See 21 Page.	
		S-G	See 21 Page.	
		G-D	See 21 Page.	
TR103	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
TR104	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR105	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR105	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	Normal operation.	
TR107	Open	C	Normal operation.	
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	R111 opened, No hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0
TR108	Open	C	R111 opened, No hazard.	AVR1:0
		E	Normal operation.	
		B	R111 opened, No hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	R111 opened, No hazard.	AVR1:0
TR201	Open	D	See 21 Page.	
		S	See 21 Page.	
		G	See 21 Page.	
	Short	D-S	See 21 Page.	
		S-G	See 21 Page.	
		G-D	See 22 Page.	
TR204	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR204	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0
TR205	Open	C	Normal operation.	
		E	Normal operation.	
		B	Normal operation.	
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	No Hazard.	AVR1:0
TR206	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	
		B-C	Normal operation.	
TR207	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	No Hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
ZD101	Open		Normal operation.	
	Short		Normal operation.	
ZD102	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
ZD102	Short	Normal operation.	
ZD104	Open	Normal operation.	
	Short	Normal operation.	
ZD105	Open	Normal operation.	
	Short	Normal operation.	
ZD201	Open	Normal operation.	
	Short	Normal operation.	
ZD202	Open	Normal operation.	
	Short	Output voltage decreased.	AVR1:decreased
ZD501	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
ZD502	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
ZD601	Open	No Hazard.	AVR1:0
	Short	Output voltage decreased.	AVR1:decreased
R101	Open	Normal operation.	
R102	Open	Normal operation.	
R103	Open	Normal operation.	
R104	Open	Normal operation.	
R105	Open	Normal operation.	
R111	Open	Normal operation.	
R112	Open	Normal operation.	
R113	Open	Normal operation.	
R114	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R115	Open	Normal operation.	
R116	Open	Normal operation.	
R117	Open	Normal operation.	
R118	Open	No Hazard.	AVR1:0
R119	Open	No Hazard.	AVR1:0
R120	Open	No Hazard.	AVR1:0
R121	Open	No Hazard.	AVR1:0
R122	Open	No Hazard.	AVR1:0
R123	Open	Normal operation.	
R124	Open	Normal operation.	
R125	Open	Normal operation.	
R126	Open	Normal operation.	
R127	Open	Normal operation.	
R128	Open	Normal operation.	
R129	Open	Normal operation.	
R130	Open	Normal operation.	
R131	Open	Normal operation.	
R132	Open	Normal operation.	
R133	Open	Normal operation.	
R134	Open	Normal operation.	
R135	Open	Normal operation.	
R136	Open	Normal operation.	
R137	Open	Normal operation.	
R138	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R139	Open	Normal operation.	
R140	Open	Normal operation.	
R141	Open	Normal operation.	
R142	Open	No Hazard.	AVR1:0
R143	Open	No Hazard.	AVR1:0
R145	Open	Normal operation.	
R146	Open	Normal operation.	
R148	Open	Normal operation.	
R149	Open	Normal operation.	
R150	Open	Normal operation.	
R151	Open	Normal operation.	
R152	Open	No Hazard.	AVR1:0
R153	Open	No Hazard.	AVR1:0
R156	Open	No Hazard.	AVR1:0
R157	Open	No Hazard.	AVR1:0
R158	Open	No Hazard.	AVR1:0
R159	Open	No Hazard.	AVR1:0
R160	Open	No Hazard.	AVR1:0
R161	Open	No Hazard.	AVR1:0
R162	Open	No Hazard.	AVR1:0
R163	Open	Normal operation.	
R170	Open	Normal operation.	
R171	Open	Normal operation.	
R172	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R173	Open	Normal operation.	
R201	Open	Normal operation.	
R202	Open	Normal operation.	
R203	Open	Normal operation.	
R204	Open	Normal operation.	
R205	Open	Normal operation.	
R206	Open	Normal operation.	
R207	Open	Normal operation.	
R208	Open	Normal operation.	
R211	Open	Normal operation.	
R212	Open	Normal operation.	
R213	Open	Normal operation.	
R214	Open	Normal operation.	
R215	Open	Normal operation.	
R216	Open	No Hazard.	AVR1:0
R217	Open	No Hazard.	AVR1:0
R220	Open	No Hazard.	AVR1:0
R221	Open	Normal operation.	
R222	Open	Normal operation.	
R224	Open	Normal operation.	
R225	Open	Normal operation.	
R226	Open	Normal operation.	
R227	Open	Normal operation.	
R229	Open	No Hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
R230	Open	No Hazard.	AVR1:0
R233	Open	Normal operation.	
R234	Open	Normal operation.	
R237	Open	Output voltage decreased. No hazard.	AVR1:decreased
R238	Open	Output voltage decreased. No hazard.	AVR1:decreased
R240	Open	Normal operation.	
R255	Open	Normal operation.	
R261	Open	Normal operation.	
R501	Open	Normal operation.	
R502	Open	Normal operation.	
R503	Open	Normal operation.	
R504	Open	Normal operation.	
R505	Open	Normal operation.	
R506	Open	Normal operation.	
R507	Open	Normal operation.	
R508	Open	Normal operation.	
R509	Open	Normal operation.	
R510	Open	Normal operation.	
R511	Open	Normal operation.	
R512	Open	Normal operation.	
R522	Open	Normal operation.	
R523	Open	Normal operation.	
R524	Open	Normal operation.	
R525	Open	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R526	Open	Normal operation.	
R527	Open	Normal operation.	
R531	Open	Normal operation.	
R532	Open	Normal operation.	
R533	Open	Normal operation.	
R534	Open	Normal operation.	
R535	Open	Normal operation.	
R536	Open	Normal operation.	
R537	Open	Normal operation.	
R538	Open	Normal operation.	
R539	Open	Normal operation.	
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.	
R550	Open	Normal operation.	
R551	Open	Normal operation.	
R560	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R561	Open	Normal operation.	
R562	Open	Normal operation.	
R563	Open	Normal operation.	
R601	Open	Output voltage decreased.	AVR1:decreased
R602	Open	Output voltage decreased.	AVR1:decreased
R603	Open	Normal operation.	
R604	Open	Output voltage decreased.	AVR1:decreased
R605	Open	No Hazard.	AVR1:0
R606	Open	No Hazard.	AVR1:0
R607	Open	Output voltage decreased.	AVR1:decreased
R608	Open	Output voltage decreased.	AVR1:decreased
R609	Open	Output voltage decreased.	AVR1:decreased

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C127	Short		R111 opened, No hazard.	AVR1:0
C128	Short		R111 opened, No hazard.	AVR1:0
C204	Short		No Hazard.	AVR1:0
C216	Short		Normal operation.	
C217	Short		Normal operation.	
C501	Short		Normal operation.	
C502	Short		Normal operation.	
C503	Short		Normal operation.	
C504	Short		Normal operation.	
SS102	Open	Alternative	Normal operation.	
SS501	Open	Alternative	Normal operation.	
SS502	Open	Alternative	Normal operation.	
T101	Short	10-11	R111 opened, No hazard.	AVR1:0
TR101	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	F101 opened, 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	F101 opened, No hazard.	AVR1:0
	Short	D-S	F101 opened, No hazard.	AVR1:0
		S-G	No Hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
TR201	Short	G-D	F101 opened, No hazard.	AVR1:0