

ABNORMAL TEST RESULT

OF MODEL LFP240F

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 : 2/21 ~ 20/21)

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

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
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	R111 opened, No hazard.	AVR1:0
C119	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
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.	
C125	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C127	Open	Normal operation.	
	Short	R111 opened, No hazard.	AVR1:0
C128	Open	Normal operation.	
	Short	R111 opened, No hazard.	AVR1:0
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	No Hazard.	AVR1:0
C205	Open	Normal operation.	
	Short	Normal operation.	
C206	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C207	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C208	Open	Normal operation.	
	Short	No Hazard.	AVR1:0
C211	Open	Normal operation.	
	Short	Normal operation.	
C212	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C216	Open	Normal operation.	
	Short	Normal operation.	
C217	Open	Normal operation.	
	Short	Normal operation.	
C221	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased
C222	Open	Normal operation.	
	Short	Output voltage decreased. No hazard.	AVR1:decreased

F M E A

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		Normal operation.	
C506	Open		Normal operation.	
	Short		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. No hazard.	AVR1:decreased
	Short	only 36	Output voltage decreased. No hazard.	AVR1:decreased
C602	Open	except 36	Output voltage decreased. No hazard.	AVR1:decreased
	Short	except 36	Output voltage decreased. No hazard.	AVR1:decreased
C603	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased
C605	Open		Output voltage decreased. No hazard.	AVR1:decreased
	Short		Output voltage decreased. No hazard.	AVR1:decreased

F M E A

Component	Mode	Comment	Output Voltage (V)
D101	Open	R111 opened, No hazard.	AVR1:0
	Short	R111 opened, No hazard.	AVR1:0
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	F101 opened, 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.	

F M E A

Component	Mode		Comment	Output Voltage (V)
D203	Open		Normal operation.	
	Short		Normal operation.	
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	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		5-6	No Hazard.	AVR1:0
		6-7	No Hazard.	AVR1:0
		7-8	No Hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		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. No hazard.	AVR1:decreased
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		3-4	Normal operation.	
		5-6	F101 opened, 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. No hazard.	AVR1:decreased
		K-R	Output voltage decreased. No hazard.	AVR1:decreased
		R-A	No Hazard.	AVR1:0
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.	
L104	Open	2	R111 opened, No hazard.	AVR1:0
		3	R111 opened, No hazard.	AVR1:0
		4, 5	R111 opened, No hazard.	AVR1:0
		6, 7	R111 opened, 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	Normal operation.	
L106	Open		R111 opened, No hazard.	AVR1:0
	Short		Normal operation.	
L107	Open		R111 opened, No hazard.	AVR1:0
	Short		Normal operation.	
L507	Open		R111 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

F M E A

Component	Mode		Comment	Output Voltage (V)
PTH201	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
PTH202	Open		No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
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	R111 opened, No hazard.	AVR1:0
		Alternative	See 21 Page.	
	Short		No Hazard.	AVR1:0
SS502	Open	Cathode	R111 opened, No hazard.	AVR1:0
		Alternative	See 21 Page.	
	Short		No Hazard.	AVR1:0
T201	Open	1, 2, 4, 5	R111 opened, No hazard.	AVR1:0
		6, 11	No Hazard.	AVR1:0
		8	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
T201	Open	9, 10	Output voltage decreased. No hazard.	AVR1:decreased
	Short	8-9	Normal operation.	
		9-10	R111 opened, No hazard.	AVR1:0
		10-11	No Hazard.	AVR1:0
TR101	Open	D	See 21 Page.	
		S	See 21 Page.	
		G	See 21 Page.	
	Short	D-S	See 22 Page.	
		S-G	See 21 Page.	
		G-D	See 21 Page.	
TR102	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	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
TR104	Open	D	Normal operation.	
		S	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR104	Open	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.	
	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.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR201	Open	G	See 21 Page.	
	Short	D-S	See 21 Page.	
		S-G	See 21 Page.	
		G-D	See 21 Page.	
TR204	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	No Hazard.	AVR1:0
TR205	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	No Hazard.	AVR1:0
TR206	Open	C	No Hazard.	AVR1:0
		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	Normal operation.	
TR207	Open	C	R111 opened, No hazard.	AVR1:0
		E	R111 opened, No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
TR207	Open	B	R111 opened, No hazard.	AVR1:0
	Short	C-E	No Hazard.	AVR1:0
		E-B	R111 opened, No hazard.	AVR1:0
		B-C	No Hazard.	AVR1:0
VR601	Open	brush	Output voltage decreased. No hazard.	AVR1:decreased
			No Hazard.	AVR1:0
	Short		No Hazard.	AVR1:0
ZD101	Open		Normal operation.	
	Short		Normal operation.	
ZD102	Open		Normal operation.	
	Short		Normal operation.	
ZD104	Open		No Hazard.	AVR1:0
	Short		Normal operation.	
ZD105	Open		Normal operation.	
	Short		Normal operation.	
ZD202	Open		Normal operation.	
	Short		Output voltage decreased. No hazard.	AVR1:decreased
ZD501	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
ZD502	Open		Normal operation.	
	Short		No Hazard.	AVR1:0
ZD601	Open	except 24	No Hazard.	AVR1:0
	Short	except 24	Output voltage decreased. No hazard.	AVR1:decreased
R101	Open		Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
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.	
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.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R131	Open	Normal operation.	
R132	Open	Normal operation.	
R133	Open	Normal operation.	
R134	Open	Normal operation.	
R135	Open	No Hazard.	AVR1:0
R136	Open	No Hazard.	AVR1:0
R137	Open	Normal operation.	
R138	Open	Normal operation.	
R139	Open	Normal operation.	
R140	Open	Normal operation.	
R141	Open	Normal operation.	
R142	Open	No Hazard.	AVR1:0
R143	Open	Normal operation.	
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	R111 opened, No hazard.	AVR1:0
R153	Open	R111 opened, No hazard.	AVR1:0
R154	Open	R111 opened, No hazard.	AVR1:0
R155	Open	R111 opened, No hazard.	AVR1:0
R156	Open	No Hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
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
R165	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	No Hazard.	AVR1:0
R215	Open	No Hazard.	AVR1:0
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.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R224	Open	Normal operation.	
R225	Open	Normal operation.	
R226	Open	Normal operation.	
R227	Open	No Hazard.	AVR1:0
R229	Open	R111 opened, No hazard.	AVR1:0
R230	Open	R111 opened, No hazard.	AVR1:0
R233	Open	Normal operation.	
R234	Open	Normal operation.	
R236	Open	Output voltage decreased. No hazard.	AVR1:decreased
R237	Open	Output voltage decreased. No hazard.	AVR1:decreased
R238	Open	Output voltage decreased. No hazard.	AVR1:decreased
R239	Open	Output voltage decreased. No hazard.	AVR1:decreased
R255	Open	Normal operation.	
R281	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.	
R511	Open	Normal operation.	
R512	Open	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R513	Open		Normal operation.	
R514	Open		Normal operation.	
R515	Open		Normal operation.	
R516	Open		Normal operation.	
R517	Open		Normal operation.	
R518	Open		Normal operation.	
R519	Open		Normal operation.	
R520	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.	
R551	Open		Normal operation.	
R552	Open		Normal operation.	
R553	Open		Normal operation.	
R554	Open		Normal operation.	
R555	Open		Normal operation.	
R556	Open		Normal operation.	
R557	Open		Normal operation.	
R558	Open		Normal operation.	
R559	Open		Normal operation.	
R560	Open	except24	Normal operation.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R561	Open	except24	Normal operation.	
R562	Open	except24	Normal operation.	
R563	Open		Normal operation.	
R564	Open		Normal operation.	
R565	Open		Normal operation.	
R566	Open		Normal operation.	
R567	Open		Normal operation.	
R568	Open		Normal operation.	
R569	Open		Normal operation.	
R601	Open		Normal operation.	
R602	Open		Normal operation.	
R603	Open		Normal operation.	
R604	Open		Output voltage decreased. No hazard.	AVR1:decreased
R605	Open		No Hazard.	AVR1:0
R606	Open		No Hazard.	AVR1:0
R607	Open		Output voltage decreased. No hazard.	AVR1:decreased
R609	Open		Output voltage decreased. No hazard.	AVR1:decreased

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
SS102	Open	Alternative	Normal operation.	
SS501	Open	Alternative	Normal operation.	
SS502	Open	Alternative	Normal operation.	
TR101	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	R111 opened, No hazard.	AVR1:0
	Short	D-S	R111 opened, No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	R111 opened, No hazard.	AVR1:0
TR102	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	R111 opened, No hazard.	AVR1:0
	Short	D-S	R111 opened, No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	R111 opened, No hazard.	AVR1:0
TR201	Open	D	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
		G	R111 opened, No hazard.	AVR1:0
	Short	D-S	R111 opened, No hazard.	AVR1:0
		S-G	No hazard.	AVR1:0
		G-D	R111 opened, No hazard.	AVR1:0