

ABNORMAL TEST RESULT

OF MODEL BRFS30

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 : 2/15 ~ 14/15)

(Abnormal Test Result: 15/15 ~ 15/15)

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	External Fuse opened, No hazard.	AVR1:0
C102	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C103	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C104	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C105	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C106	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	
C107	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C108	Open	Normal operation.	
	Short	External Fuse opened, No hazard.	AVR1:0
C109	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C110	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C111	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C112	Open	No hazard.	AVR1:0
	Short	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C113	Open	Normal operation.	
	Short	See 15 Page.	
C114	Open	Normal operation.	
	Short	See 15 Page.	
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
C201	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
C301	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C302	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C303	Open	Normal operation.	
	Short	No hazard.	AVR1:0

F M E A

Component	Mode	Comment	Output Voltage (V)
C304	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C305	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C306	Open	See 15 Page.	
	Short	No hazard.	AVR1:0
C307	Open	Normal operation.	
	Short	Normal operation.	
C308	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C309	Open	Normal operation.	
	Short	Output voltage increased. No hazard.	AVR1:Increased
C310	Open	Output voltage increased. No hazard.	AVR1:Increased
	Short	Normal operation.	
C313	Open	Normal operation.	
	Short	Normal operation.	
C401	Open	Normal operation.	
	Short	No hazard.	AVR1:0
C402	Open	Normal operation.	
	Short	See 15 Page.	
C403	Open	Normal operation.	
	Short	Normal operation.	
C404	Open	Normal operation.	
	Short	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
C405	Open		Normal operation.	
	Short		No hazard.	AVR1:0
C406	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
C407	Open		No hazard.	AVR1:0
	Short		Normal operation.	
D202	Open		No hazard.	AVR1:0
	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	Normal operation.	
		7	Normal operation.	
		8	No hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		3-4	Normal operation.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	Normal operation.	
IC102	Open	1	Normal operation.	
		2	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC102	Open	3	No hazard.	AVR1:0
		4	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
		6	See 15 Page.	
		7	See 15 Page.	
		8	No hazard.	AVR1:0
	Short	1-2	Normal operation.	
		2-3	No hazard.	AVR1:0
		3-4	Normal operation.	
		5-6	No hazard.	AVR1:0
		6-7	Normal operation.	
		7-8	Normal operation.	
IC103	Open	1	No hazard.	AVR1:0
		2	No hazard.	AVR1:0
		3	See 15 Page.	
		4	No hazard.	AVR1:0
		5	See 15 Page.	
		6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
		8	No hazard.	AVR1:0
	Short	1-2	See 15 Page.	
		2-3	No hazard.	AVR1:0
		3-4	No hazard.	AVR1:0
		5-6	See 15 Page.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC103	Short	6-7	No hazard.	AVR1:0
		7-8	No hazard.	AVR1:0
IC301	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	Normal operation.	
		7	Normal operation.	
		8	Normal operation.	
		9	No hazard.	AVR1:0
		10	No hazard.	AVR1:0
		11	Normal operation.	
		12	Normal operation.	
		13	Normal operation.	
		14	Normal operation.	
		15	No hazard.	AVR1:0
		16	See 15 Page.	
		17	Normal operation.	
		18	Normal operation.	
		19	Normal operation.	
		20	Normal operation.	
		21	Normal operation.	
		22	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Open	23	Normal operation.	
		24	Normal operation.	
		25	See 15 Page.	
		26	No hazard.	AVR1:0
		27	No hazard.	AVR1:0
		28	No hazard.	AVR1:0
		29	No hazard.	AVR1:0
		30	Normal operation.	
		31	Normal operation.	
		32	Output voltage increased. No hazard.	AVR1:Increased
		33	Output voltage increased. No hazard.	AVR1:Increased
		34	Normal operation.	
		35	No hazard.	AVR1:0
		36	Normal operation.	
		37	No hazard.	AVR1:0
		38	No hazard.	AVR1:0
		39	No hazard.	AVR1:0
		40	Normal operation.	
	Short	1-2	No hazard.	AVR1:0
		2-3	No hazard.	AVR1:0
		3-4	Normal operation.	
		4-5	No hazard.	AVR1:0
		5-6	Normal operation.	
		6-7	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	7-8	Normal operation.	
		8-9	No hazard.	AVR1:0
		9-10	No hazard.	AVR1:0
		10-11	Normal operation.	
		11-12	Normal operation.	
		12-13	Normal operation.	
		13-14	Normal operation.	
		14-15	Normal operation.	
		15-16	No hazard.	AVR1:0
		16-17	No hazard.	AVR1:0
		17-18	No hazard.	AVR1:0
		18-19	No hazard.	AVR1:0
		19-20	Normal operation.	
		20-21	Normal operation.	
		21-22	Normal operation.	
		22-23	Normal operation.	
		23-24	Normal operation.	
		24-25	Normal operation.	
		25-26	No hazard.	AVR1:0
		26-27	No hazard.	AVR1:0
		27-28	No hazard.	AVR1:0
		28-29	No hazard.	AVR1:0
		29-30	Normal operation.	
		30-31	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
IC301	Short	31-32	No hazard.	AVR1:0
		32-33	Output voltage decreased No hazard.	AVR1:decreased
		33-34	Output voltage increased. No hazard.	AVR1:Increased
		34-35	Output voltage decreased or increased.	AVR1:decreased or increased
		35-36	Normal operation.	
		36-37	No hazard.	AVR1:0
		37-38	Output voltage decreased No hazard.	AVR1:decreased
		38-39	Output voltage decreased No hazard.	AVR1:decreased
		39-40	No hazard.	AVR1:0
		40-1	No hazard.	AVR1:0
IC401	Open	1	Normal operation.	
		2	No hazard.	AVR1:0
		3	No hazard.	AVR1:0
		4	Normal operation.	
		5	Normal operation.	
		6	Normal operation.	
		7	Normal operation.	
		8	Normal operation.	
	Short	1-2	Normal operation.	
		2-3	Normal operation.	
		3-4	Normal operation.	
		5-6	Normal operation.	
		6-7	Normal operation.	
		7-8	No hazard.	AVR1:0

F M E A

Component	Mode		Comment	Output Voltage (V)
L101	Open		No hazard.	AVR1:0
	Short		No hazard.	AVR1:0
TH201	Open		Normal operation.	
	Short		No hazard.	AVR1:0
TR101	Open	D	See 15 Page.	
		G	See 15 Page.	
		S	See 15 Page.	
	Short	D-G	See 15 Page.	
		G-S	See 15 Page.	
		S-D	See 15 Page.	
TR102	Open	D	External Fuse opened, No hazard.	AVR1:0
		S	External Fuse opened, No hazard.	AVR1:0
		G	External Fuse opened, No hazard.	AVR1:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0
		S-G	External Fuse opened, No hazard.	AVR1:0
		G-D	External Fuse opened, No hazard.	AVR1:0
TR103	Open	D	External Fuse opened, No hazard.	AVR1:0
		S	External Fuse opened, No hazard.	AVR1:0
		G	External Fuse opened, No hazard.	AVR1:0
	Short	D-S	External Fuse opened, No hazard.	AVR1:0
		S-G	External Fuse opened, No hazard.	AVR1:0
		G-D	External Fuse opened, No hazard.	AVR1:0
TR202	Open	C	Normal operation.	
		E	Normal operation.	

F M E A

Component	Mode		Comment	Output Voltage (V)
TR202	Open	B	Normal operation.	
	Short	C-E	Normal operation.	
		E-B	Normal operation.	
		B-C	No hazard.	AVR1:0
TR203	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.	
TR401	Open	D	Normal operation.	
		S	Normal operation.	
		G	Normal operation.	
	Short	D-S	Normal operation.	
		S-G	Normal operation.	
		G-D	Normal operation.	
ZD302	Open		Normal operation.	
	Short		Output voltage increased. No hazard.	AVR1:Increased
R101	Open		Normal operation.	
R102	Open		Normal operation.	
R103	Open		No hazard.	AVR1:0
R104	Open		Normal operation.	
R105	Open		Normal operation.	
R106	Open		Normal operation.	

F M E A

Component	Mode	Comment	Output Voltage (V)
R107	Open	Normal operation.	
R108	Open	Normal operation.	
R109	Open	Normal operation.	
R110	Open	Normal operation.	
R111	Open	Normal operation.	
R112	Open	No hazard.	AVR1:0
R201	Open	No hazard.	AVR1:0
R202	Open	Normal operation.	
R206	Open	No hazard.	AVR1:0
R207	Open	No hazard.	AVR1:0
R208	Open	No hazard.	AVR1:0
R209	Open	Normal operation.	
R210	Open	No hazard.	AVR1:0
R211	Open	No hazard.	AVR1:0
R212	Open	Normal operation.	
R213	Open	No hazard.	AVR1:0
R214	Open	Normal operation.	
R215	Open	No hazard.	AVR1:0
R301	Open	No hazard.	AVR1:0
R302	Open	Normal operation.	
R303	Open	No hazard.	AVR1:0
R304	Open	Output voltage decreased No hazard.	AVR1:decreased
R305	Open	Output voltage increased. No hazard.	AVR1:Increased
R306	Open	Normal operation.	



F M E A

Component	Mode	Comment	Output Voltage (V)
R307	Open	Output voltage decreased No hazard.	AVR1:decreased
R308	Open	Output voltage increased. No hazard.	AVR1:Increased
R401	Open	Normal operation.	
R402	Open	Normal operation.	
R403	Open	Normal operation.	
R404	Open	Normal operation.	
R405	Open	Normal operation.	
R406	Open	No hazard.	AVR1:0
R407	Open	Normal operation.	
R408	Open	Normal operation.	
R409	Open	Normal operation.	
R410	Open	Normal operation.	
R411	Open	Normal operation.	
R412	Open	Normal operation.	

ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C113	Short		Output voltage increased. No hazard.	AVR1:Increased
C114	Short		No hazard.	AVR1:0
C306	Open		No hazard.	AVR1:0
C402	Short		No hazard.	AVR1:0
IC102	Open	6	No hazard.	AVR1:0
		7	No hazard.	AVR1:0
IC103	Open	3	No hazard.	AVR1:0
		5	No hazard.	AVR1:0
	Short	1-2	External Fuse opened, No hazard.	AVR1:0
		5-6	No hazard.	AVR1:0
IC301	Open	16	External Fuse opened, No hazard.	AVR1:0
		25	No hazard.	AVR1:0
TR101	Open	D	No hazard.	AVR1:0
		G	No hazard.	AVR1:0
		S	No hazard.	AVR1:0
	Short	D-G	Output voltage increased. No hazard.	AVR1:Increased
		G-S	No hazard.	AVR1:0
		S-D	Output voltage increased. No hazard.	AVR1:Increased