



## ABNORMAL TEST RESULT

OF MODEL WMA100F

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 : 2/12 ~ 11/12)

( Abnormal Test Result: 12/12 ~ 12/12)

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	Nomal operation.	AVR1:*
	Short	Fuse opend.No Hazard.	AVR1:0
C102	Open	Nomal operation.	AVR1:*
	Short	Fuse opend.No Hazard.	AVR1:0
C103	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C104	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C109	Open	No Hazard.	AVR1:decreased
	Short	Fuse opend.No Hazard.	AVR1:0
C111	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C112 (Only -48)	Open	Nomal operation.	AVR1:*
	Short	Fuse opend.No Hazard.	AVR1:0
C113 (Only -48)	Open	Nomal operation.	AVR1:*
	Short	Fuse opend.No Hazard.	AVR1:0
C114	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C201	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C202	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C203	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased



## F M E A

Component	Mode	Comment	Output Voltage (V)
C204	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C205	Open	Nomal operation.	AVR1:*
	Short	Fuse opend.No Hazard.	AVR1:0
C206	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C207	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C208	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C212	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C213	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C501	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C502	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C503	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C504 (Only -12)	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C505	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased

## F M E A

Component	Mode	Comment	Output Voltage (V)
C506 (Only -12)	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C507 (Only -12)	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C508 (Except:-48)	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C509	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C512	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
C515	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C601	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C602	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C603	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
C605	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased
D101	Open	Nomal operation.	AVR1:*
	Short	Nomal operation.	AVR1:*
D201	Open	Nomal operation.	AVR1:*
	Short	No Hazard.	AVR1:decreased



## F M E A

Component	Mode		Comment	Output Voltage (V)
D202	Open		Nomal operation.	AVR1:*
	Short		No Hazard.	AVR1:decreased
D203	Open		Nomal operation.	AVR1:*
	Short		Nomal operation.	AVR1:*
D204	Open		Nomal operation.	AVR1:*
	Short		Nomal operation.	AVR1:*
D205	Open		Nomal operation.	AVR1:*
	Short		Fuse opend.No Hazard.	AVR1:0
D206	Open		Nomal operation.	AVR1:*
	Short		Nomal operation.	AVR1:*
D207	Open		Nomal operation.	AVR1:*
	Short		Nomal operation.	AVR1:*
IC201	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	Nomal operation.	AVR1:*
		7	Nomal operation.	AVR1:*
		8	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:decreased
		2-3	No Hazard.	AVR1:decreased
		3-4	Fuse opend.No Hazard.	AVR1:0
		5-6	Fuse opend.No Hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Short	6-7	Nomal operation.	AVR1:*
		7-8	Nomal operation.	AVR1:*
IC601	Open	1	Nomal operation.	AVR1:*
		2	Nomal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
	Short	1-2	Nomal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
L101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
	Short	1-2	Nomal operation.	AVR1:*
		2-3	Fuse opend. No Hazard.	AVR1:0
		3-4	Nomal operation.	AVR1:*
L501	Open		No Hazard.	AVR1:0
	Short		Nomal operation.	AVR1:*
LED501	Open		Nomal operation.	AVR1:*
	Short		Nomal operation.	AVR1:*
PC201	Open	A, K	No Hazard.	AVR1:0
		C, E	No Hazard.	AVR1:0
	Short	A-K	No Hazard.	AVR1:0



## F M E A

Component	Mode		Comment	Output Voltage (V)
PC201	Short	C-E	No Hazard.	AVR1:0
R101	Open		Nomal operation.	AVR1:*
R102	Open		Nomal operation.	AVR1:*
R103	Open		Nomal operation.	AVR1:*
R110	Open		Nomal operation.	AVR1:*
R111	Open		Nomal operation.	AVR1:*
R112	Open		Nomal operation.	AVR1:*
R113	Open		Nomal operation.	AVR1:*
R114	Open		Nomal operation.	AVR1:*
R115	Open		Nomal operation.	AVR1:*
R116	Open		No Hazard.	AVR1:0
R201	Open		No Hazard.	AVR1:0
R202	Open		Nomal operation.	AVR1:*
R203	Open		No Hazard.	AVR1:0
R205	Open		Nomal operation.	AVR1:*
R208	Open		No Hazard.	AVR1:0
R209	Open		No Hazard.	AVR1:0
R210	Open		Nomal operation.	AVR1:*
R212	Open		No Hazard.	AVR1:0
R214	Open		No Hazard.	AVR1:decreased
R215	Open		No Hazard.	AVR1:decreased
R216	Open		No Hazard.	AVR1:decreased
R217	Open		No Hazard.	AVR1:decreased
R219	Open		Nomal operation.	AVR1:*
R220	Open		Nomal operation.	AVR1:*



## F M E A

Component	Mode	Comment	Output Voltage (V)
R222	Open	Nomal operation.	AVR1:*
R223	Open	Nomal operation.	AVR1:*
R224	Open	Nomal operation.	AVR1:*
R225	Open	Nomal operation.	AVR1:*
R226	Open	Nomal operation.	AVR1:*
R501	Open	Nomal operation.	AVR1:*
R502	Open	Nomal operation.	AVR1:*
R503	Open	Nomal operation.	AVR1:*
R504	Open	Nomal operation.	AVR1:*
R505 (Only -12)	Open	Nomal operation.	AVR1:*
R506 (Only -12)	Open	Nomal operation.	AVR1:*
R507 (Only -12)	Open	Nomal operation.	AVR1:*
R508 (Only -12)	Open	Nomal operation.	AVR1:*
R509	Open	Nomal operation.	AVR1:*
R510	Open	Nomal operation.	AVR1:*
R513	Open	Nomal operation.	AVR1:*
R514 (Only -48)	Open	Nomal operation.	AVR1:*
R601	Open	Nomal operation.	AVR1:*
R602	Open	Nomal operation.	AVR1:*
R603	Open	Nomal operation.	AVR1:*
R604	Open	Nomal operation.	AVR1:*
R605	Open	No Hazard.	AVR1:0
R606	Open	No Hazard.	AVR1:0
R607	Open	No Hazard.	AVR1:decreased
R608 (Except:-48)	Open	Nomal operation.	AVR1:*





## F M E A

Component	Mode		Comment	Output Voltage (V)
R610	Open		Nomal operation.	AVR1:*
SS101	Open	1	No Hazard.	AVR1:0
		2	No Hazard.	AVR1:0
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
	Short	1-2	Fuse opend.No Hazard.	AVR1:0
		2-3	Fuse opend.No Hazard.	AVR1:0
		3-4	Fuse opend.No Hazard.	AVR1:0
SS501	Open	1	Nomal operation.	AVR1:*
		2	No Hazard.	AVR1:decreased
		3	Nomal operation.	AVR1:*
	Short	1-2	No Hazard.	AVR1:decreased
		2-3	No Hazard.	AVR1:decreased
SS502 (Only -12)	Open	1	Nomal operation.	AVR1:*
		2	No Hazard.	AVR1:decreased
		3	Nomal operation.	AVR1:*
	Short	1-2	No Hazard.	AVR1:decreased
		2-3	No Hazard.	AVR1:decreased
T201	Open	1	Nomal operation.	AVR1:*
		2	Nomal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	No Hazard.	AVR1:0
		6	Nomal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
T201	Open	7	Nomal operation.	AVR1:*
		9	Nomal operation.	AVR1:*
		10	Nomal operation.	AVR1:*
	Short	1-2	No Hazard.	AVR1:decreased
		2-3	Fuse opend. No Hazard.	AVR1:0
		3-4	Nomal operation.	AVR1:*
		4-5	Nomal operation.	AVR1:*
		6 7-9 10	No Hazard.	AVR1:decreased
TH101	Open		No Hazard.	AVR1:0
	Short		Nomal operation.	AVR1:*
TR201	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	See page 13.	
		S-G	No Hazard.	AVR1:0
		G-D	See page 13.	
TR203	Open	C	Nomal operation.	AVR1:*
		E	Nomal operation.	AVR1:*
		B	Nomal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:decreased
		E-B	Nomal operation.	AVR1:*
		B-C	No Hazard.	AVR1:decreased
TR601	Open	D	Nomal operation.	AVR1:*
		S	Nomal operation.	AVR1:*

## F M E A

Component	Mode		Comment	Output Voltage (V)
TR601	Open	G	Nomal operation.	AVR1:*
	Short	D-S	No Hazard.	AVR1:0
		S-G	Nomal operation.	AVR1:*
		G-D	No Hazard.	AVR1:0
VR601	Open	brush	No Hazard.	AVR1:decreased
			No Hazard.	AVR1:0
	Short		Nomal operation.	AVR1:increased
ZD202	Open		Nomal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
ZD601 (Only -48)	Open		No Hazard.	AVR1:0
	Short		Nomal operation.	AVR1:*
ZD602	Open		Nomal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
ZD603 (Only -48)	Open		Nomal operation.	AVR1:*
	Short		No Hazard.	AVR1:0



ABNORMAL TEST RESULT

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