



ABNORMAL TEST RESULT

OF MODEL MUS15

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 : 2/18 ~ 16/18)

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

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.	AVR1:*
	Short	See page 17.	
C111	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C122	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C141 (Except: 2412, 2415)	Open	Normal operation.	AVR1:*
	Short	Output voltage decrease.	AVR1:decreased
C142 (Only 2412, 2415, 4812, 4815)	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C143 (Only 2405, 2412, 2415, 243R3)	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C201	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C211	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C212	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C221	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C231	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C241 (Only 2412, 243R3, 4805, 483R3)	Open	Normal operation.	AVR1:*
	Short	See page 17.	



F M E A

Component	Mode	Comment	Output Voltage (V)
C242 (Only 2405, 2412, 2415, 243R3)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C251	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C252	Open	Output voltage decrease.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C253	Open	Output voltage decrease.	AVR1:decreased
	Short	No Hazard.	AVR1:0
C254	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C255	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C256	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C261	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C262	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C263	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C264	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C281	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
C291	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C501	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C502	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C503	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C504	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C512	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C541	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C542 (Only 4805, 483R3)	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C601	Open	Normal operation.	AVR1:*
	Short	See page 17.	
C702 (Only 2405, 243R3, 4805, 483R3)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
C711	Open	Output voltage decrease.	AVR1:decreased
	Short	Output voltage decrease.	AVR1:decreased
C712	Open	Output voltage decrease.	AVR1:decreased
	Short	Output voltage decrease.	AVR1:decreased



F M E A

Component	Mode	Comment	Output Voltage (V)
C713 (Only 2412, 2415, 4812, 4815)	Open	Output voltage decrease.	AVR1:decreased
	Short	Output voltage decrease.	AVR1:decreased
C732	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
C901	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D141 (Except: 2412, 2415)	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D221	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D231	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D241	Open	Normal operation.	AVR1:*
	Short	Output voltage decrease.	AVR1:decreased
D251	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D252	Open	Normal operation.	AVR1:*
	Short	Output voltage decrease.	AVR1:decreased
D261	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D263	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*
D291	Open	Normal operation.	AVR1:*
	Short	Normal operation.	AVR1:*



F M E A

Component	Mode		Comment	Output Voltage (V)
D521	Open		Normal operation.	AVR1:*
	Short		Normal operation.	AVR1:*
D601	Open		See page 17.	
	Short		See page 17.	
IC121	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	No Hazard.	AVR1:0
	Short	1-2	No Hazard.	AVR1:0
		2-3	No Hazard.	AVR1:0
		4-5	No Hazard.	AVR1:0
		5-6	Normal operation.	AVR1:*
IC201	Open	1	No Hazard.	AVR1:0
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	Normal operation.	AVR1:*
		5	Normal operation.	AVR1:*
		6	No Hazard.	AVR1:0
		7	Normal operation.	AVR1:*
		8	No Hazard.	AVR1:0
		9	Normal operation.	AVR1:*
		10	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC201	Open	11	No Hazard.	AVR1:0
		12	No Hazard.	AVR1:0
	Short	1-2	Normal operation.	AVR1:*
		2-3	No Hazard.	AVR1:0
		3-4	No Hazard.	AVR1:0
		4-5	Normal operation.	AVR1:*
		5-6	No Hazard.	AVR1:0
		7-8	Normal operation.	AVR1:*
		8-9	Normal operation.	AVR1:*
		9-10	No Hazard.	AVR1:0
		10-11	No Hazard.	AVR1:0
		11-12	No Hazard.	AVR1:0
IC601	Open	1	See page 17.	
		2	See page 17.	
		3	See page 17.	
		4	See page 16.	
		5	See page 17.	
		6	See page 17.	
	Short	1-2	See page 17.	
		2-3	See page 17.	
		4-5	Normal operation.	AVR1:*
		5-6	See page 17.	
IC701	Open	3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
IC701	Open	5	No Hazard.	AVR1:0
	Short	4-5	No Hazard.	AVR1:0
L101	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
L501	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
PC251	Open	A, K	Output voltage decrease.	AVR1:decreased
		C, E	Output voltage decrease.	AVR1:decreased
	Short	A-K	Output voltage decrease.	AVR1:decreased
		C-E	No Hazard.	AVR1:0
PC261	Open	A, K	Normal operation.	AVR1:*
		C, E	Normal operation.	AVR1:*
	Short	A-K	Normal operation.	AVR1:*
		C-E	No Hazard.	AVR1:0
PTH281	Open		No Hazard.	AVR1:0
	Short		Normal operation.	AVR1:*
R121	Open		Normal operation.	AVR1:*
R122	Open		Output voltage decrease.	AVR1:decreased
R123	Open		No Hazard.	AVR1:0
R124	Open		No Hazard.	AVR1:0
R125	Open		No Hazard.	AVR1:0
R126	Open		No Hazard.	AVR1:0
R127	Open		No Hazard.	AVR1:0
R141 (Except: 2412, 2415)	Open		Normal operation.	AVR1:*



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Component	Mode	Comment	Output Voltage (V)
R142 (Except: 2412, 2415)	Open	Normal operation.	AVR1:*
R151	Open	No Hazard.	AVR1:0
R201	Open	Normal operation.	AVR1:*
R202	Open	Normal operation.	AVR1:*
R211	Open	No Hazard.	AVR1:0
R212	Open	No Hazard.	AVR1:0
R213	Open	Normal operation.	AVR1:*
R214	Open	No Hazard.	AVR1:0
R221	Open	Normal operation.	AVR1:*
R222	Open	Normal operation.	AVR1:*
R223	Open	No Hazard.	AVR1:0
R224	Open	Normal operation.	AVR1:*
R231	Open	See page 18.	
R241	Open	Normal operation.	AVR1:*
R242	Open	Normal operation.	AVR1:*
R243	Open	Normal operation.	AVR1:*
R251	Open	No Hazard.	AVR1:0
R253	Open	Normal operation.	AVR1:*
R254	Open	Normal operation.	AVR1:*
R255	Open	Normal operation.	AVR1:*
R256	Open	Normal operation.	AVR1:*
R257	Open	No Hazard.	AVR1:0
R258	Open	Normal operation.	AVR1:*
R259	Open	Normal operation.	AVR1:*

F M E A

Component	Mode	Comment	Output Voltage (V)
R260	Open	Normal operation.	AVR1:*
R261	Open	Normal operation.	AVR1:*
R262	Open	Normal operation.	AVR1:*
R263	Open	No Hazard.	AVR1:0
R264	Open	Normal operation.	AVR1:*
R265	Open	Normal operation.	AVR1:*
R266	Open	Normal operation.	AVR1:*
R267	Open	No Hazard.	AVR1:0
R268	Open	Normal operation.	AVR1:*
R269	Open	Normal operation.	AVR1:*
R270	Open	Normal operation.	AVR1:*
R271	Open	No Hazard.	AVR1:0
R281	Open	Normal operation.	AVR1:*
R291	Open	Normal operation.	AVR1:*
R292	Open	No Hazard.	AVR1:0
R293	Open	Normal operation.	AVR1:*
R294	Open	Normal operation.	AVR1:*
R295	Open	Normal operation.	AVR1:*
R521	Open	Normal operation.	AVR1:*
R522	Open	See page 18.	
R523	Open	Normal operation.	AVR1:*
R531	Open	Normal operation.	AVR1:*
R532 (Only 2405, 243R3, 4805, 483R3)	Open	Normal operation.	AVR1:*
R601	Open	See page 18.	



F M E A

Component	Mode		Comment	Output Voltage (V)
R603	Open		See page 18.	
R604	Open		See page 18.	
R701	Open		No Hazard.	AVR1:0
R702	Open		No Hazard.	AVR1:0
R703	Open		No Hazard.	AVR1:0
R704	Open		Output voltage decrease.	AVR1:decreased
R705	Open		No Hazard.	AVR1:0
R706	Open		Normal operation.	AVR1:*
R711	Open		No Hazard.	AVR1:0
R712	Open		Normal operation.	AVR1:*
R713	Open		Output voltage decrease.	AVR1:decreased
R714 (Only 2412, 2415, 4812, 4815)	Open		Normal operation.	AVR1:*
R715	Open		Normal operation.	AVR1:*
R731	Open		Normal operation.	AVR1:*
R732	Open		Normal operation.	AVR1:*
R733 (Only 243R3, 483R3)	Open		Normal operation.	AVR1:*
R734	Open		Normal operation.	AVR1:*
R735	Open		Normal operation.	AVR1:*
T101	Open	1	See page 18.	
		2	Normal operation.	AVR1:*
		3	No Hazard.	AVR1:0
		4	No Hazard.	AVR1:0
		5	See page 18.	
		6	See page 18.	



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Component	Mode		Comment	Output Voltage (V)
T101	Open	7	Normal operation.	AVR1:*
		8	Normal operation.	AVR1:*
		9	Normal operation.	AVR1:*
		10	Normal operation.	AVR1:*
	Short	1-2	Normal operation.	AVR1:*
		2-3	See page 18.	
		3-4	See page 18.	
		4-5	See page 18.	
		6-7	See page 18.	
		7-8	Normal operation.	AVR1:*
		8-9	See page 18.	
		9-10	Normal operation.	AVR1:*
TR101	Open	D	No Hazard.	AVR1:0
		S	No Hazard.	AVR1:0
		G	No Hazard.	AVR1:0
	Short	D-S	See page 18.	
		S-G	No Hazard.	AVR1:0
		G-D	See page 18.	
TR201	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0



F M E A

Component	Mode		Comment	Output Voltage (V)
TR221	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	Normal operation.	AVR1:*
TR222	Open	C	No Hazard.	AVR1:0
		E	No Hazard.	AVR1:0
		B	No Hazard.	AVR1:0
	Short	C-E	Normal operation.	AVR1:*
		E-B	No Hazard.	AVR1:0
		B-C	Normal operation.	AVR1:*
TR241	Open	D	Normal operation.	AVR1:*
		S	Normal operation.	AVR1:*
		G	Output voltage decrease.	AVR1:decreased
	Short	D-S	Output voltage decrease.	AVR1:decreased
		S-G	Normal operation.	AVR1:*
		G-D	Output voltage decrease.	AVR1:decreased
TR251	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*



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Component	Mode		Comment	Output Voltage (V)
TR251	Short	1-1 (1-2)	Normal operation.	AVR1:*
		1-2 (2-3)	Normal operation.	AVR1:*
		2-2 (4-5)	Normal operation.	AVR1:*
		2-1 (5-6)	Normal operation.	AVR1:*
TR252	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Output voltage decrease.	AVR1:decreased
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*
	Short	1-1 (1-2)	Output voltage decrease.	AVR1:decreased
		1-2 (2-3)	Normal operation.	AVR1:*
		2-2 (4-5)	Normal operation.	AVR1:*
		2-1 (5-6)	Output voltage decrease.	AVR1:decreased
TR261	Open	1 (1)	Normal operation.	AVR1:*
		1 (2)	Normal operation.	AVR1:*
		2 (3)	Normal operation.	AVR1:*
		2 (4)	Normal operation.	AVR1:*
		2 (5)	Normal operation.	AVR1:*
		1 (6)	Normal operation.	AVR1:*
	Short	1-1 (1-2)	Normal operation.	AVR1:*
		1-2 (2-3)	Normal operation.	AVR1:*
		2-2 (4-5)	Normal operation.	AVR1:*
		2-1 (5-6)	Normal operation.	AVR1:*

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Component	Mode		Comment	Output Voltage (V)
TR281	Open	C	Normal operation.	AVR1:*
		E	Normal operation.	AVR1:*
		B	Normal operation.	AVR1:*
	Short	C-E	No Hazard.	AVR1:0
		E-B	Normal operation.	AVR1:*
		B-C	No Hazard.	AVR1:0
TR501	Open	D	Output voltage decrease.	AVR1:decreased
		S	Output voltage decrease.	AVR1:decreased
		G	See page 18.	
	Short	D-S	See page 18.	
		S-G	See page 18.	
		G-D	See page 18.	
TR731	C:Open		Normal operation.	AVR1:*
	E:Open		Normal operation.	AVR1:*
	B:Open		Normal operation.	AVR1:*
	C-E:Short		No Hazard.	AVR1:0
	E-B:Short		Normal operation.	AVR1:*
	B-C:Short		Output voltage decrease.	AVR1:decreased
ZD221	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
ZD222	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0
ZD731 (Only 2405, 243R3, 4805, 483R3)	Open		Normal operation.	AVR1:*
	Short		No Hazard.	AVR1:0



F M E A

Component	Mode	Comment	Output Voltage (V)
ZD732 (Only 2412, 2415, 4812, 4815)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0
ZD733 (Only 2412, 2415, 4812, 4815)	Open	Normal operation.	AVR1:*
	Short	No Hazard.	AVR1:0



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
C101	Short		No Hazard	AVR1:0
C111	Short		No Hazard	AVR1:0
C122	Short		No Hazard	AVR1:*
C142	Short		No Hazard	AVR1:0
C143	Short		No Hazard	AVR1:0
C231	Short		No Hazard	AVR1:*
C241	Short		Output voltage decreased. NoHazard.	AVR1:decreased
C501	Short		Output voltage decreased. NoHazard.	AVR1:decreased
C502	Short		Output voltage decreased. NoHazard.	AVR1:decreased
C503	Short		Output voltage decreased. NoHazard.	AVR1:decreased
C504	Short		Output voltage decreased. NoHazard.	AVR1:decreased
C512	Short		Output voltage decreased. NoHazard.	AVR1:decreased
C541	Short		Output voltage decreased. NoHazard.	AVR1:decreased
C542	Short		Output voltage decreased. NoHazard.	AVR1:decreased
C601	Short		No Hazard	AVR1:*
D601	Open		No Hazard	AVR1:*
	Short		No Hazard	AVR1:*
IC601	Open	1	No Hazard	AVR1:0
		2	No Hazard	AVR1:0
		3	No Hazard	AVR1:*
		5	No Hazard	AVR1:*
		6	No Hazard	AVR1:*
	Short	1-2	No Hazard	AVR1:*
		5-6	Output voltage decreased. NoHazard.	AVR1:decreased



ABNORMAL TEST RESULT

Component	Mode		Comment	Output Voltage (V)
R522	Open		No Hazard	AVR1:*
R601	Open		No Hazard	AVR1:*
R603	Open		No Hazard	AVR1:*
R604	Open		No Hazard	AVR1:*
R231	Open		No Hazard	AVR1:*
T101	Open	1	No Hazard	AVR1:*
		5	No Hazard	AVR1:*
		6	No Hazard	AVR1:*
	Short	2-3	No Hazard	AVR1:0
		3-4	No Hazard	AVR1:0
		4-5	No Hazard	AVR1:0
		6-7	No Hazard	AVR1:*
		8-9	Output voltage decreased. NoHazard.	AVR1:decreased
TR101	Short	D-S	Output voltage decreased. NoHazard.	AVR1:decreased
		G-D	No Hazard	AVR1:0
TR501	Open	G	No Hazard	AVR1:0
	Short	D-S	Output voltage decreased. NoHazard.	AVR1:decreased
		S-G	No Hazard	AVR1:*
		G-D	Output voltage decreased. NoHazard.	AVR1:decreased