



TEST DATA OF RMC15A-2 (100V INPUT)

Regulated DC Power Supply

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Approved by : Sho-Go Takashina
Design Manager

Prepared by : Yuichi Takahashi
Design Engineer

コーセル株式会社
COSEL CO., LTD.

CONTENTS

1. Line Regulation	1
静の入力変動	
2. Efficiency (by Input Voltage)	3
効率 (入力電圧特性)	
3. Power Factor (by Input Voltage)	4
力率 (入力電圧特性)	
4. Hold-Up Time	5
出力保持時間	
5. Instantaneous Interruption Compensation	8
瞬時停電保障	
6. Load Regulation	11
静的負荷変動	
7. Ripple Voltage (by Load Current)	13
リップル電圧 (負荷特性)	
8. Ripple-Noise	16
リップルノイズ	
9. Overcurrent Protection	19
過電流保護	
10. Inrush Current	21
突入電流	
11. Dynamic Load Responce	22
動的負荷変動	
12. Rise and Fall Time	25
立上り、立下り時間	
13. Ambient Temperature Drift	28
周囲温度変動	
14. Minimum Input Voltage for Regulated Output Voltage	30
最低レギュレーション電圧	
15. Ripple Voltage (by Ambient Temperature)	32
リップル電圧 (周囲温度特性)	
16. Time Lapse Drift	34
経時ドリフト	
17. Output Voltage Accuracy	36
定電圧精度	
18. Condensation	37
結露特性	
19. Leakage Current	38
漏洩電流	
20. Conducted Emission	39
雑音端子電圧	
21. Figure of Testing Circuitry	40
測定回路図	

(Final Page 41)

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Model		RMC15A-2	
Item		Line Regulation 静の入力変動	
Object		+5.0V2A	
1. Graph		2. Values	

Output Voltage [V]	Load 50%		Load 100%								
	Input Voltage [V]										
	Output Voltage [V]										
Load 50%				Load 100%							
75				5.062				5.059			
80				5.062				5.059			
85				5.062				5.059			
90				5.062				5.059			
100				5.062				5.059			
110				5.062				5.059			
120				5.062				5.059			
132				5.062				5.059			
140				5.062				5.059			

Object		+15.0V0.2A	
1. Graph		2. Values	

Output Voltage [V]	Load 50%		Load 100%								
	Input Voltage [V]										
	Output Voltage [V]										
Load 50%				Load 100%							
75				15.069				15.062			
80				15.069				15.060			
85				15.070				15.060			
90				15.070				15.059			
100				15.070				15.059			
110				15.070				15.059			
120				15.070				15.059			
132				15.070				15.059			
140				15.070				15.059			

Note: Slanted line shows the range of the rated input voltage.
(注)斜線は定格入力電圧範囲を示す。

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Model		RMC15A-2		Temperature		25℃																																	
Item		Line Regulation 静的入力変動		Testing Circuitry		Figure A																																	
Object		-15.0V0.2A																																					
1. Graph				2. Values																																			
<div>-----□----- Load 50%</div> <div>-----△----- Load 100%</div> <div><p>[V]</p><p>Note: Slanted line shows the range of the rated input voltage.</p><p>(注)斜線は定格入力電圧範囲を示す。</p></div>				<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>-15.145</td><td>-15.142</td></tr><tr><td>80</td><td>-15.146</td><td>-15.141</td></tr><tr><td>85</td><td>-15.147</td><td>-15.140</td></tr><tr><td>90</td><td>-15.147</td><td>-15.139</td></tr><tr><td>100</td><td>-15.147</td><td>-15.139</td></tr><tr><td>110</td><td>-15.148</td><td>-15.139</td></tr><tr><td>120</td><td>-15.148</td><td>-15.139</td></tr><tr><td>132</td><td>-15.149</td><td>-15.139</td></tr><tr><td>140</td><td>-15.149</td><td>-15.139</td></tr></table>				Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	75	-15.145	-15.142	80	-15.146	-15.141	85	-15.147	-15.140	90	-15.147	-15.139	100	-15.147	-15.139	110	-15.148	-15.139	120	-15.148	-15.139	132	-15.149	-15.139	140	-15.149	-15.139
Input Voltage [V]	Output Voltage [V]																																						
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75	-15.145	-15.142																																					
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120	-15.148	-15.139																																					
132	-15.149	-15.139																																					
140	-15.149	-15.139																																					

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Model RMC15A-2		Temperature 25°C Testing Circuitry Figure A																																
Item	Efficiency (by Input Voltage) 効率 (入力電圧特性)																																	
Object																																		
1. Graph <div> <div> <div>□</div> <div>Load 50%</div> </div> <div> <div>△</div> <div>Load 100%</div> </div> </div> <p>Efficiency [%]</p> <p>Input Voltage [V]</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>(注) 斜線は定格入力電圧範囲を示す。</p>		2. Values <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th><th colspan="2">Efficiency [%]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>75</td><td>62.0</td><td>63.3</td></tr> <tr><td>80</td><td>61.8</td><td>64.1</td></tr> <tr><td>85</td><td>61.8</td><td>64.6</td></tr> <tr><td>90</td><td>61.7</td><td>64.9</td></tr> <tr><td>100</td><td>61.3</td><td>65.5</td></tr> <tr><td>110</td><td>60.4</td><td>65.6</td></tr> <tr><td>120</td><td>59.7</td><td>65.7</td></tr> <tr><td>132</td><td>58.6</td><td>65.6</td></tr> <tr><td>140</td><td>57.7</td><td>65.7</td></tr> </tbody> </table>	Input Voltage [V]	Efficiency [%]		Load 50%	Load 100%	75	62.0	63.3	80	61.8	64.1	85	61.8	64.6	90	61.7	64.9	100	61.3	65.5	110	60.4	65.6	120	59.7	65.7	132	58.6	65.6	140	57.7	65.7
Input Voltage [V]	Efficiency [%]																																	
	Load 50%	Load 100%																																
75	62.0	63.3																																
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Model		RMC15A-2	Temperature		25℃
Item		Power Factor (by Input Voltage) 力率 (入力電圧特性)	Testing Circuitry		Figure A
Object					

1. Graph

-----□-----

Load 50%

-----△-----

Load 100%

Power Factor

1.00

0.90

0.80

0.70

0.60

0.50

0

0

80

90

100

110

120

130

140

150

Input Voltage

[V]

Note: Slanted line shows the range of the rated input voltage.

(注)斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Power Factor	
	Load 50%	Load 100%
75	0.58	0.62
80	0.57	0.61
85	0.57	0.60
90	0.56	0.59
100	0.54	0.57
110	0.53	0.56
120	0.52	0.55
132	0.51	0.53
140	0.50	0.52

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Model		RMC15A-2	Temperature Testing Circuitry	25℃ Figure A																														
Item		Hold-Up Time 出力保持時間																																
Object		+5.0V2A																																
1. Graph			2. Values																															
<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div>Hold-Up Time [mS]</div><div><div>Hold-Up Time [mS]</div><div>Input Voltage [V]</div></div></div> <div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p><p>Note: Slanted line shows the range of the rated input voltage.</p><p>出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。</p><p>(注)斜線は定格入力電圧範囲を示す。</p></div> <table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [mS]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>75</td><td>21</td><td>12</td></tr><tr><td>80</td><td>25</td><td>15</td></tr><tr><td>85</td><td>29</td><td>18</td></tr><tr><td>90</td><td>33</td><td>21</td></tr><tr><td>100</td><td>42</td><td>27</td></tr><tr><td>110</td><td>52</td><td>35</td></tr><tr><td>120</td><td>64</td><td>43</td></tr><tr><td>132</td><td>78</td><td>53</td></tr><tr><td>140</td><td>89</td><td>61</td></tr></table>			Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	75	21	12	80	25	15	85	29	18	90	33	21	100	42	27	110	52	35	120	64	43	132	78	53	140	89	61
Input Voltage [V]	Hold-Up Time [mS]																																	
	Load 50%	Load 100%																																
75	21	12																																
80	25	15																																
85	29	18																																
90	33	21																																
100	42	27																																
110	52	35																																
120	64	43																																
132	78	53																																
140	89	61																																

COSEL

Model		RMC15A-2	
Item		Hold-Up Time 出力保持時間	
Object		+15.0V0.2A	

1. Graph

-----□----- Load 50%

-----△----- Load 100%

[mS]

1000

100

10

1

08090100110120130140150

Input Voltage [V]

Input Voltage [V]	Load 50% [mS]	Load 100% [mS]
75	22	16
80	25	19
85	28	22
90	31	25
100	38	31
110	47	39
120	56	47
132	67	58
140	76	65

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

Note: Slanted line shows the range of the rated input voltage.

出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。

(注) 斜線は定格入力電圧範囲を示す。

2. Values

Input Voltage [V]	Hold-Up Time [mS]	
	Load 50%	Load 100%
75	22	16
80	25	19
85	28	22
90	31	25
100	38	31
110	47	39
120	56	47
132	67	58
140	76	65

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Model		RMC15A-2		Temperature		25℃																																	
Item		Hold-Up Time 出力保持時間		Testing Circuitry		Figure A																																	
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Input Voltage	Hold-Up Time																																						
	Load 50%	Load 100%																																					
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Model		RMC15A-2	
Item		Instantaneous Interruption Compensation 瞬時停電保障	
Object		+5.0V2A	

1. Graph

—△— Input Volt. 85 V

- - -□- - - Input Volt. 100 V

- - -○- - - Input Volt. 132 V

[mS]

Instantaneous Compensation Time

Load Current [A]

This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

Note:Slanted line shows the range of the rated load current.

瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。

(注)斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Time [mS]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
0.0	—	—	—
0.4	36	54	95
0.8	28	43	78
1.2	22	35	69
1.6	14	27	57
2.0	14	23	48
2.2	12	21	44
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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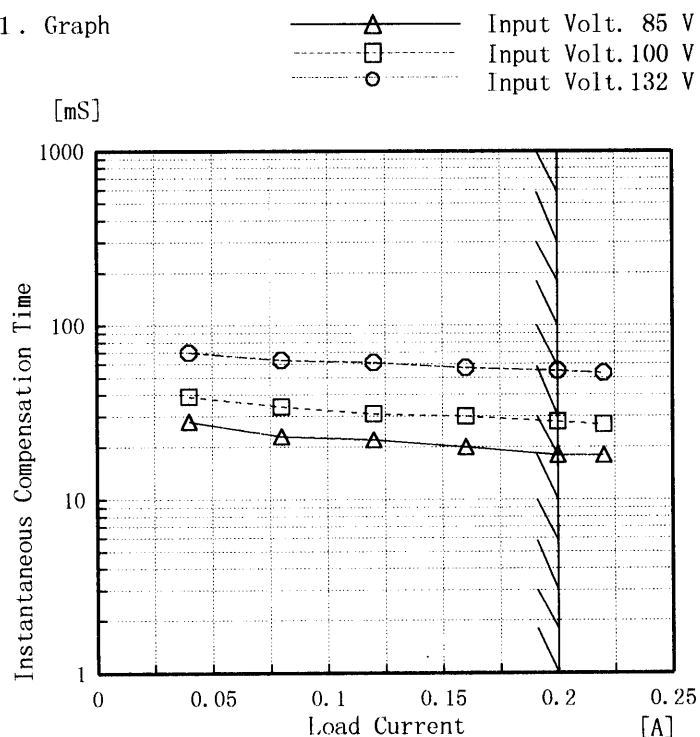
Model		RMC15A-2		Temperature		25℃																																																				
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<div><div><div>△</div><div>Input Volt. 85 V</div></div><div><div>□</div><div>Input Volt. 100 V</div></div><div><div>○</div><div>Input Volt. 132 V</div></div></div> <div><div>[mS]</div><div>Instantaneous Compensation Time</div></div> <div><div>1000</div><div>100</div><div>10</div><div>1</div></div> <div><div>0</div><div>0.05</div><div>0.1</div><div>0.15</div><div>0.2</div><div>0.25</div></div> <div><div>Load Current</div><div>[A]</div></div> <div><p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p><p>Note:Slanted line shows the range of the rated load current.</p></div> <div><p>瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。</p><p>(注)斜線は定格負荷電流範囲を示す。</p></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [mS]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr><tr><td>0.04</td><td>31</td><td>43</td><td>73</td></tr><tr><td>0.08</td><td>23</td><td>36</td><td>65</td></tr><tr><td>0.12</td><td>22</td><td>31</td><td>61</td></tr><tr><td>0.16</td><td>20</td><td>30</td><td>57</td></tr><tr><td>0.20</td><td>19</td><td>29</td><td>55</td></tr><tr><td>0.22</td><td>18</td><td>28</td><td>54</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>				Load Current [A]	Time [mS]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	—	—	—	0.04	31	43	73	0.08	23	36	65	0.12	22	31	61	0.16	20	30	57	0.20	19	29	55	0.22	18	28	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Time [mS]																																																									
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Model	RMC15A-2
Item	Instantaneous Interruption Compensation 瞬時停電保障
Object	-15.0V 0.2A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.

Note: Slanted line shows the range of the rated load current.

瞬時停電保障時間とは、出力電圧が定電圧精度の規格範囲を保持している瞬時停電時間をいう。

(注) 斜線は定格負荷電流範囲を示す。

2. Values

Load Current [A]	Time [mS]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
0.00	—	—	—
0.04	28	39	70
0.08	23	34	63
0.12	22	31	61
0.16	20	30	57
0.20	18	28	55
0.22	18	27	53
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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Model		RMC15A-2	Temperature		25℃																																														
Item		Load Regulation 静的負荷変動	Testing Circuitry		Figure A																																														
Object		+5.0V2A	2. Values																																																
1. Graph		<div><div>—△—</div>Input Volt. 85 V</div> <div><div>- - □ - -</div>Input Volt. 100 V</div> <div><div>- - ○ - -</div>Input Volt. 132 V</div>																																																	
<div><div>[V]</div><div>0</div><div>0.5</div><div>1</div><div>1.5</div><div>2</div><div>2.5</div><div>[A]</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.0</td><td>5.064</td><td>5.064</td><td>5.064</td></tr><tr><td>0.4</td><td>5.063</td><td>5.063</td><td>5.063</td></tr><tr><td>0.8</td><td>5.062</td><td>5.062</td><td>5.062</td></tr><tr><td>1.2</td><td>5.061</td><td>5.061</td><td>5.061</td></tr><tr><td>1.6</td><td>5.060</td><td>5.060</td><td>5.060</td></tr><tr><td>2.0</td><td>5.059</td><td>5.059</td><td>5.059</td></tr><tr><td>2.2</td><td>5.059</td><td>5.059</td><td>5.059</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>			Load Current [A]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.0	5.064	5.064	5.064	0.4	5.063	5.063	5.063	0.8	5.062	5.062	5.062	1.2	5.061	5.061	5.061	1.6	5.060	5.060	5.060	2.0	5.059	5.059	5.059	2.2	5.059	5.059	5.059	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Output Voltage [V]																																																		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]																																																
0.0	5.064	5.064	5.064																																																
0.4	5.063	5.063	5.063																																																
0.8	5.062	5.062	5.062																																																
1.2	5.061	5.061	5.061																																																
1.6	5.060	5.060	5.060																																																
2.0	5.059	5.059	5.059																																																
2.2	5.059	5.059	5.059																																																
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<div><div>[V]</div><div>0</div><div>0.05</div><div>0.1</div><div>0.15</div><div>0.2</div><div>0.25</div><div>[A]</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>0.00</td><td>15.072</td><td>15.073</td><td>15.073</td></tr><tr><td>0.04</td><td>15.070</td><td>15.071</td><td>15.071</td></tr><tr><td>0.08</td><td>15.068</td><td>15.068</td><td>15.069</td></tr><tr><td>0.12</td><td>15.065</td><td>15.065</td><td>15.066</td></tr><tr><td>0.16</td><td>15.062</td><td>15.062</td><td>15.063</td></tr><tr><td>0.20</td><td>15.059</td><td>15.060</td><td>15.060</td></tr><tr><td>0.22</td><td>15.057</td><td>15.058</td><td>15.058</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>			Load Current [A]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	0.00	15.072	15.073	15.073	0.04	15.070	15.071	15.071	0.08	15.068	15.068	15.069	0.12	15.065	15.065	15.066	0.16	15.062	15.062	15.063	0.20	15.059	15.060	15.060	0.22	15.057	15.058	15.058	—	—	—	—	—	—	—	—	—	—	—	—
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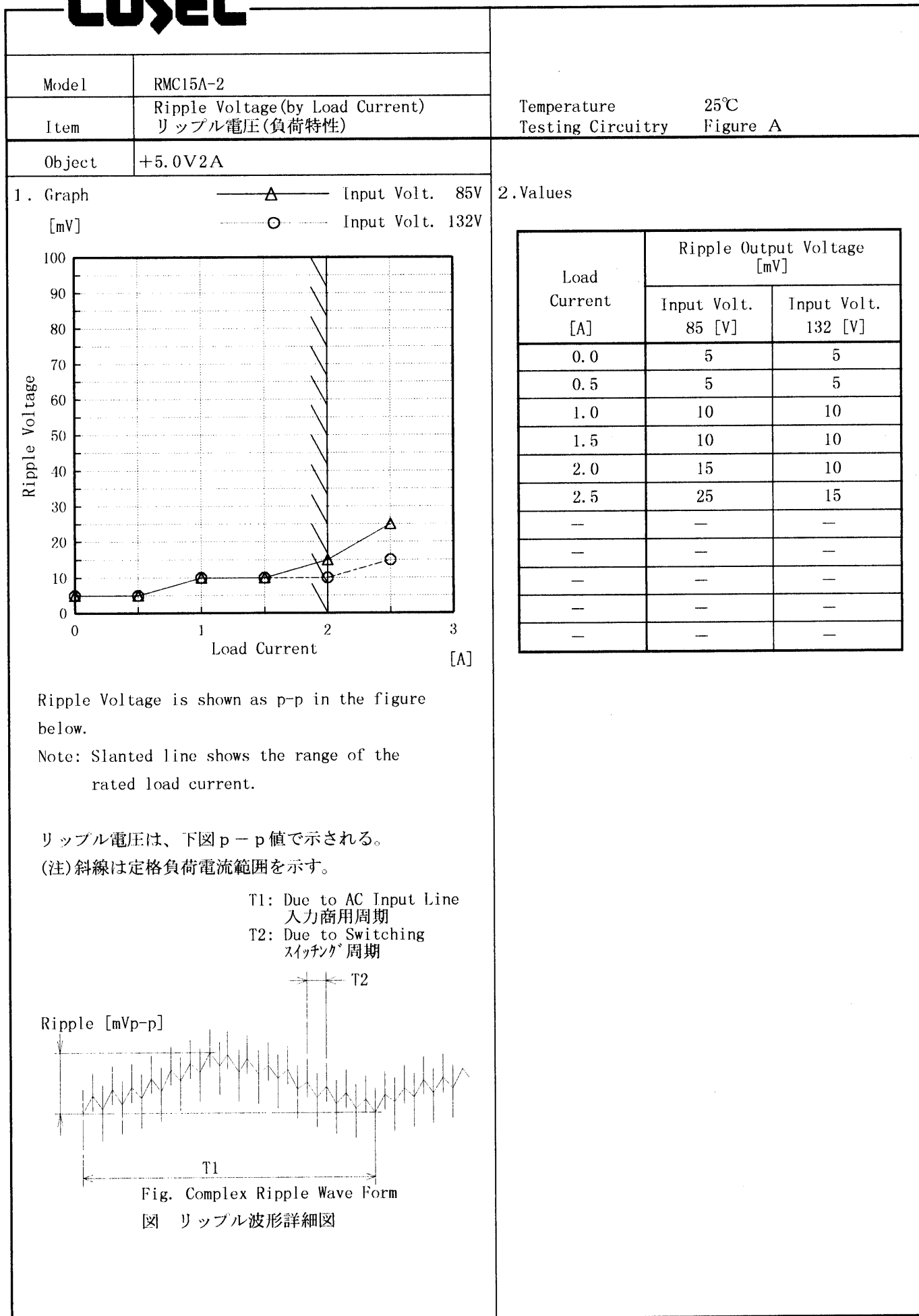
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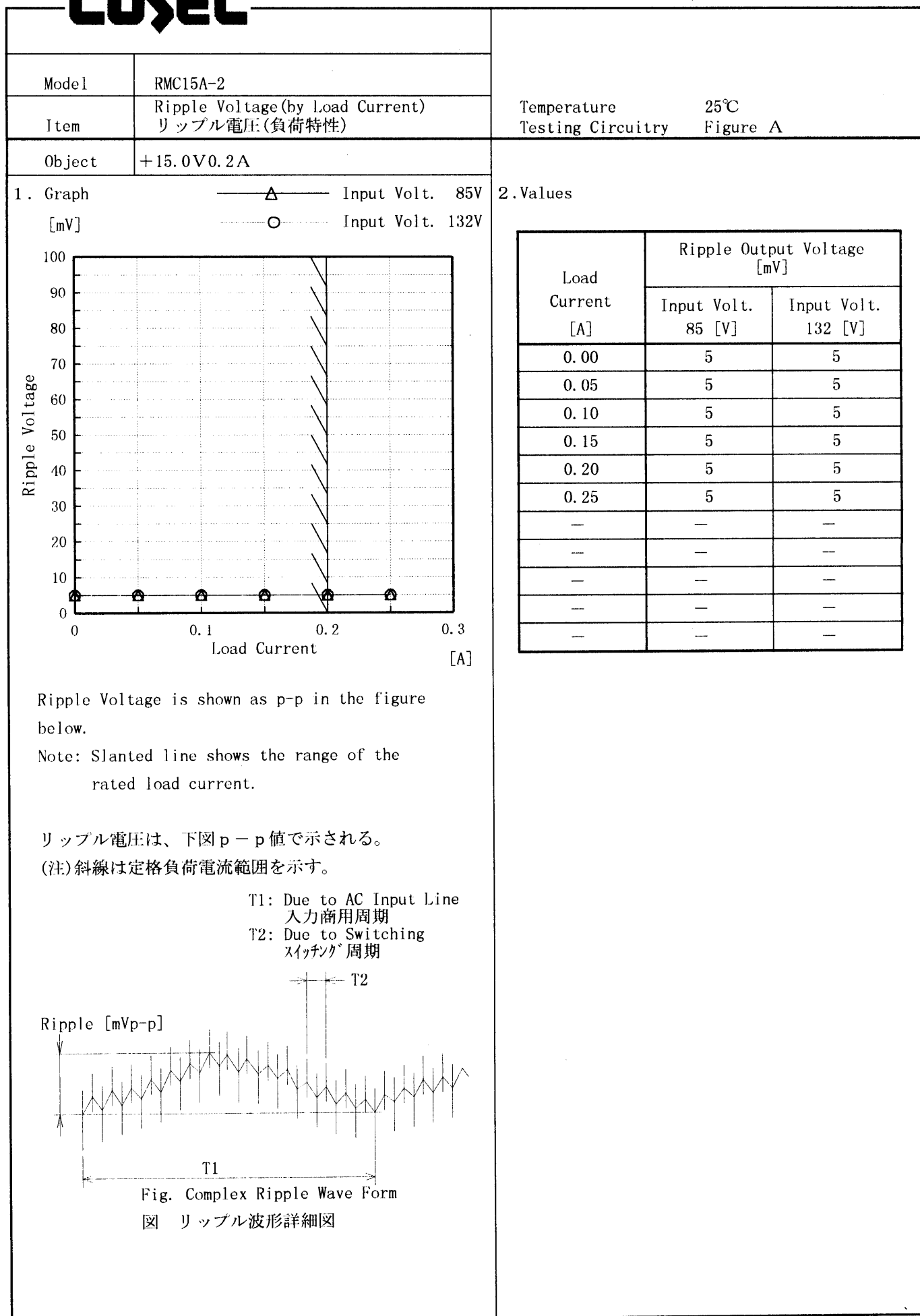
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Model		RMC15A-2		Temperature		25℃																																																
Item		Load Regulation 静的負荷変動		Testing Circuitry		Figure A																																																
Object		-15.0V0.2A																																																				
1. Graph				2. Values																																																		
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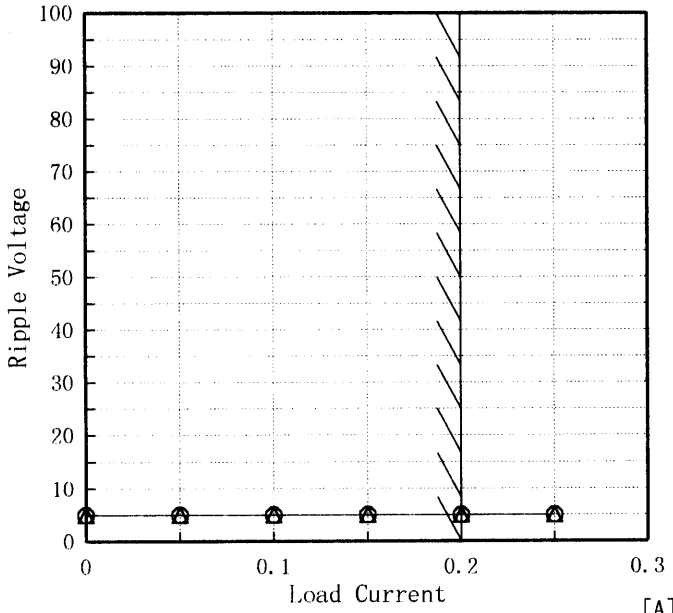
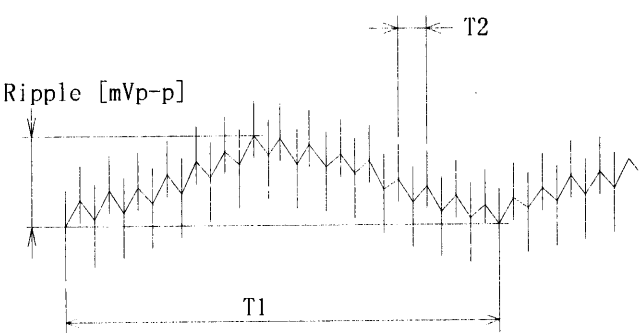
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Model	RMC15A-2																																								
Item	Ripple Voltage(by Load Current) リップル電圧(負荷特性)	Temperature	25℃																																						
		Testing Circuitry	Figure A																																						
Object	-15.0V 0.2A																																								
1. Graph		2.Values																																							
<div><div>—△— Input Volt. 85V</div><div>---○--- Input Volt. 132V</div><div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Output Voltage [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.00</td><td>5</td><td>5</td></tr><tr><td>0.05</td><td>5</td><td>5</td></tr><tr><td>0.10</td><td>5</td><td>5</td></tr><tr><td>0.15</td><td>5</td><td>5</td></tr><tr><td>0.20</td><td>5</td><td>5</td></tr><tr><td>0.25</td><td>5</td><td>5</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>		Load Current [A]	Ripple Output Voltage [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.00	5	5	0.05	5	5	0.10	5	5	0.15	5	5	0.20	5	5	0.25	5	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Ripple Output Voltage [mV]																																								
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<p>Ripple Voltage is shown as p-p in the figure below.</p> <p>Note: Slanted line shows the range of the rated load current.</p> <p>リップル電圧は、下図 p-p 値で示される。</p> <p>(注) 斜線は定格負荷電流範囲を示す。</p> <div><div>T1: Due to AC Input Line 入力商用周期</div><div>T2: Due to Switching スイッチング周期</div><div></div></div>																																									
<p>Fig. Complex Ripple Wave Form</p> <p>図 リップル波形詳細図</p>																																									

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Model		RMC15A-2	Temperature Testing Circuitry	25℃ Figure A
Item		Ripple-Noise リップルノイズ		
Object		+5.0V2A		

1. Graph

-----□-----

Input Volt. 85V

-----△-----

Input Volt. 132V

[mV]

200

180

160

140

120

100

80

60

40

20

0

Ripple-Noise

Load Current

[A]

Ripple-Noise is shown as p-p in the figure below.

Note: Slanted line shows the range of the rated load current.

リップルノイズは、下図 p-p 値で示される。

(注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
入力商用周期

T2: Due to Switching
スイッチング周期

T2

Ripple-Noise

[mVp-p]

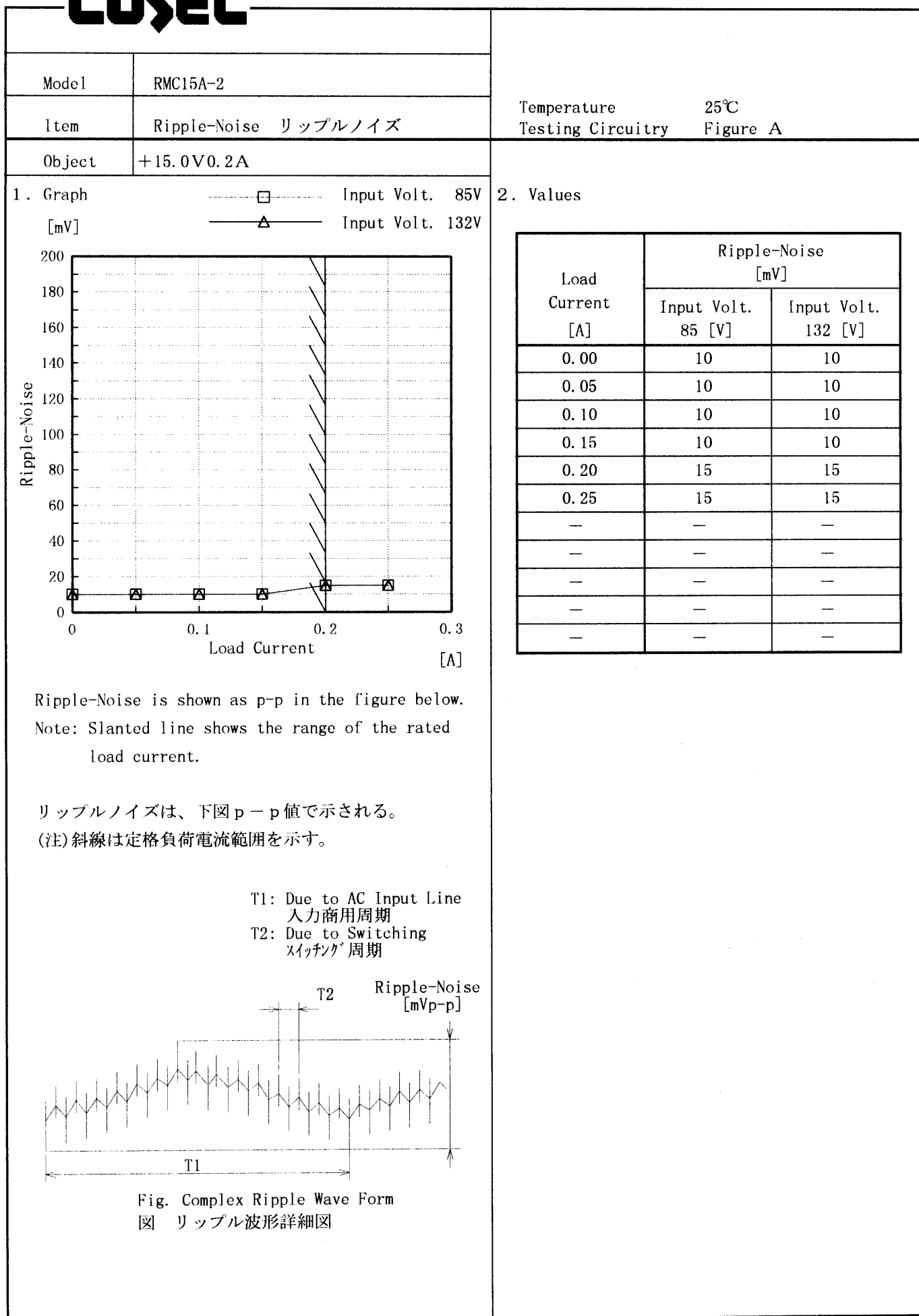
Fig. Complex Ripple Wave Form

図 リップル波形詳細図

2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 85 [V]	Input Volt. 132 [V]
0.0	10	10
0.5	10	10
1.0	15	15
1.5	15	15
2.0	20	20
2.5	35	25
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

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Model	RMC15A-2																																								
Item	Ripple-Noise リップルノイズ	Temperature	25℃																																						
Object	-15.0V0.2A	Testing Circuitry	Figure A																																						
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<div><div>-----□----- Input Volt. 85V</div><div>-----△----- Input Volt. 132V</div><div>[mV]</div><div><div>Ripple-Noise</div><div>Load Current [A]</div></div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple-Noise [mV]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>0.00</td><td>10</td><td>10</td></tr><tr><td>0.05</td><td>15</td><td>15</td></tr><tr><td>0.10</td><td>15</td><td>15</td></tr><tr><td>0.15</td><td>15</td><td>15</td></tr><tr><td>0.20</td><td>15</td><td>15</td></tr><tr><td>0.25</td><td>20</td><td>20</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>		Load Current [A]	Ripple-Noise [mV]		Input Volt. 85 [V]	Input Volt. 132 [V]	0.00	10	10	0.05	15	15	0.10	15	15	0.15	15	15	0.20	15	15	0.25	20	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Load Current [A]	Ripple-Noise [mV]																																								
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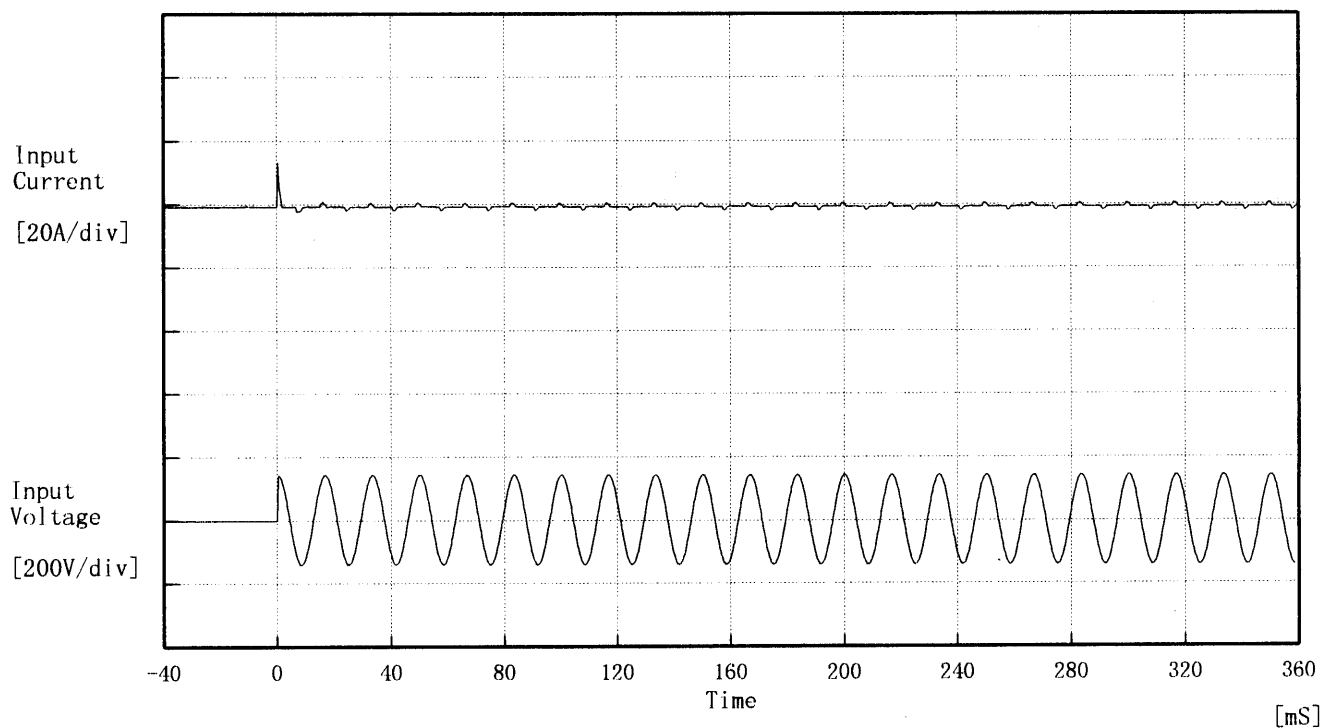
Model	RMC15A-2	Temperature	25℃																																																							
Item	Overcurrent Protection 過電流保護	Testing Circuitry	Figure A																																																							
Object	+5.0V2A																																																									
1. Graph		2. Values																																																								
<div><div><div></div><div></div><div></div></div><div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div></div></div> <div><div>[V]</div><div>8.0</div><div>6.0</div><div>4.0</div><div>2.0</div><div>0.0</div><div>0</div><div>1</div><div>2</div><div>3</div><div>Output Voltage</div><div>Load Current</div><div>[A]</div></div>		<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>5.00</td><td>2.67</td><td>2.68</td><td>2.57</td></tr><tr><td>4.75</td><td>2.66</td><td>2.66</td><td>2.53</td></tr><tr><td>4.50</td><td>2.65</td><td>2.63</td><td>2.48</td></tr><tr><td>4.00</td><td>2.67</td><td>2.62</td><td>2.47</td></tr><tr><td>3.50</td><td>2.77</td><td>2.69</td><td>2.50</td></tr><tr><td>3.00</td><td>2.82</td><td>2.72</td><td>2.52</td></tr><tr><td>2.50</td><td>2.84</td><td>2.72</td><td>2.52</td></tr><tr><td>2.00</td><td>2.81</td><td>2.68</td><td>2.50</td></tr><tr><td>1.50</td><td>2.72</td><td>2.59</td><td>2.44</td></tr><tr><td>1.00</td><td>2.55</td><td>2.45</td><td>2.33</td></tr><tr><td>0.50</td><td>2.33</td><td>2.26</td><td>2.14</td></tr><tr><td>0.00</td><td>2.15</td><td>2.07</td><td>1.98</td></tr></table>		Output Voltage [V]	Load Current [A]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	5.00	2.67	2.68	2.57	4.75	2.66	2.66	2.53	4.50	2.65	2.63	2.48	4.00	2.67	2.62	2.47	3.50	2.77	2.69	2.50	3.00	2.82	2.72	2.52	2.50	2.84	2.72	2.52	2.00	2.81	2.68	2.50	1.50	2.72	2.59	2.44	1.00	2.55	2.45	2.33	0.50	2.33	2.26	2.14	0.00	2.15	2.07	1.98
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Note: Slanted line shows the range of the rated load current. (注)斜線は定格負荷電流範囲を示す。																																																										

COSEL

Model		RMC15A-2		Temperature		25℃																																																								
Item		Overcurrent Protection 過電流保護		Testing Circuitry		Figure A																																																								
Object		-15.0V0.2A																																																												
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<div><div><div></div><div></div><div></div></div><div><div>Input Volt. 85 V</div><div>Input Volt. 100 V</div><div>Input Volt. 132 V</div></div></div> <div><div>[V]</div><div><div>Output Voltage</div><div>[V]</div></div><div><div>Load Current</div><div>[A]</div></div></div>				<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="3">Load Current [A]</th></tr><tr><th>Input Volt. 85 [V]</th><th>Input Volt. 100 [V]</th><th>Input Volt. 132 [V]</th></tr><tr><td>-15.00</td><td>0.480</td><td>0.470</td><td>0.425</td></tr><tr><td>-14.25</td><td>0.502</td><td>0.489</td><td>0.441</td></tr><tr><td>-13.50</td><td>0.536</td><td>0.519</td><td>0.465</td></tr><tr><td>-12.00</td><td>0.590</td><td>0.567</td><td>0.509</td></tr><tr><td>-10.50</td><td>0.639</td><td>0.610</td><td>0.549</td></tr><tr><td>-9.00</td><td>0.676</td><td>0.641</td><td>0.579</td></tr><tr><td>-7.50</td><td>0.706</td><td>0.668</td><td>0.606</td></tr><tr><td>-6.00</td><td>0.726</td><td>0.686</td><td>0.630</td></tr><tr><td>-4.50</td><td>0.732</td><td>0.693</td><td>0.648</td></tr><tr><td>-3.00</td><td>0.720</td><td>0.689</td><td>0.650</td></tr><tr><td>-1.50</td><td>0.710</td><td>0.681</td><td>0.644</td></tr><tr><td>0.00</td><td>0.705</td><td>0.677</td><td>0.642</td></tr></table>				Output Voltage [V]	Load Current [A]			Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]	-15.00	0.480	0.470	0.425	-14.25	0.502	0.489	0.441	-13.50	0.536	0.519	0.465	-12.00	0.590	0.567	0.509	-10.50	0.639	0.610	0.549	-9.00	0.676	0.641	0.579	-7.50	0.706	0.668	0.606	-6.00	0.726	0.686	0.630	-4.50	0.732	0.693	0.648	-3.00	0.720	0.689	0.650	-1.50	0.710	0.681	0.644	0.00	0.705	0.677	0.642
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COSEL

Model	RMC15A-2	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current 突入電流	
Object		



Input Voltage 100 V

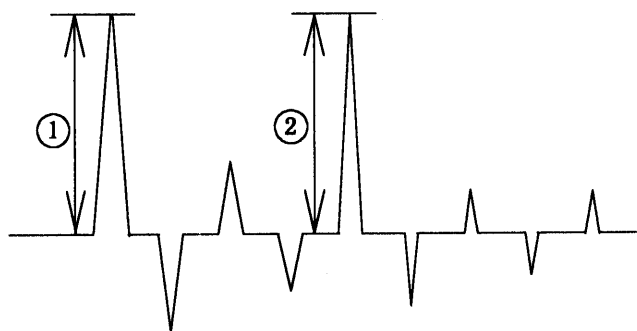
Frequency 60 Hz

Load 100 %

Inrush Current

① 13.09 [A]

② 1.95 [A]



COSEL

Model	RMC15A-2	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Responce 動的負荷変動	
Object	+5.0V2A	

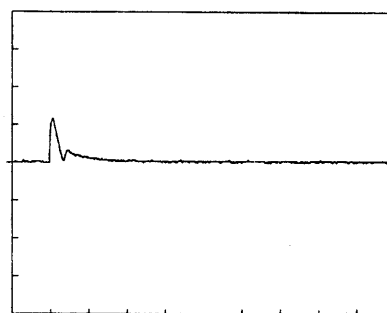
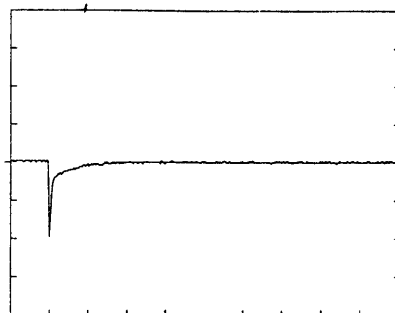
Input Volt. 100 V

Cycle 1000 mS

Load Current

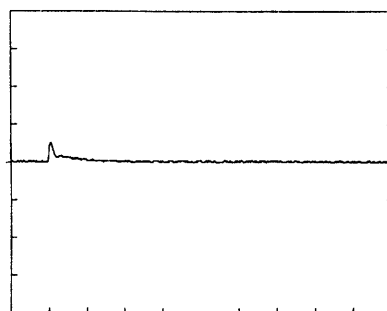
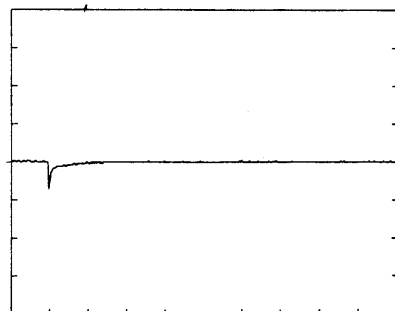
Load 0% ←→

Load 100 %



Load 0% ←→

Load 50 %



100 mV/div

10 mS/div

COSEL

Model		RMC15A-2	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Responce 動的負荷変動	
Object		+15.0V0.2A	

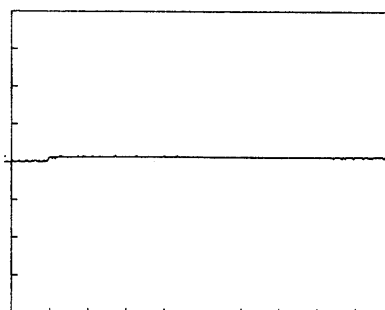
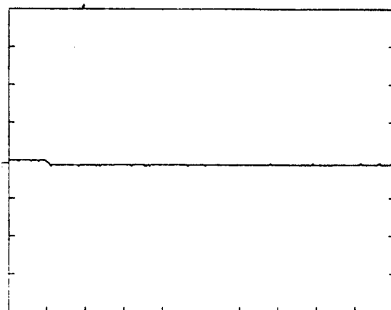
Input Volt. 100 V

Cycle 1000 mS

Load Current

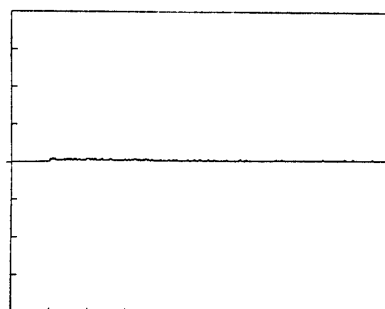
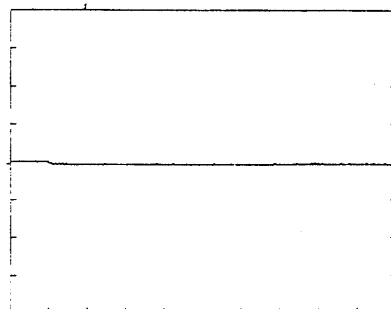
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



100 mV/div

10 mS/div

COSEL

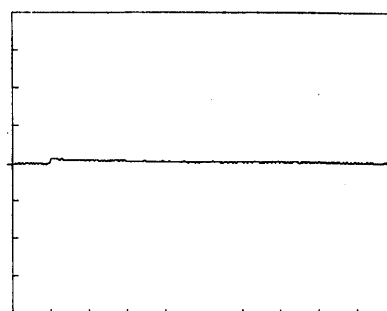
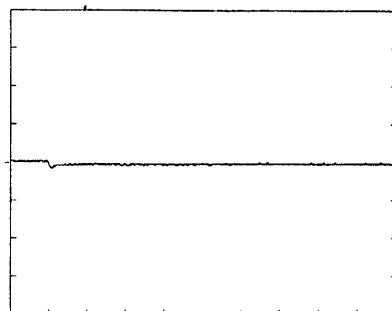
Model	RMC15A-2		
Item	Dynamic Load Responce 動的負荷変動	Temperature	25℃
Object	15.0V0.2A	Testing Circuitry	Figure A

Input Volt. 100 V
Cycle 1000 mS

Load Current

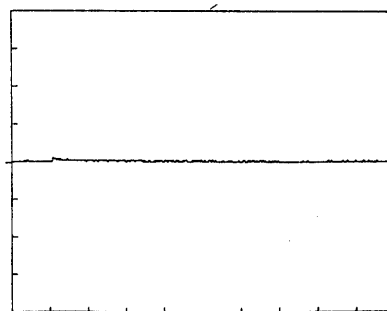
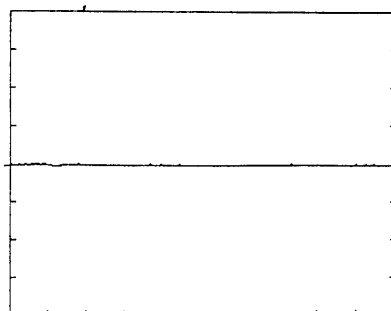
Load 0% ←→

Load 100 %



Load 0% ←→

Load 50 %



100 mV/div

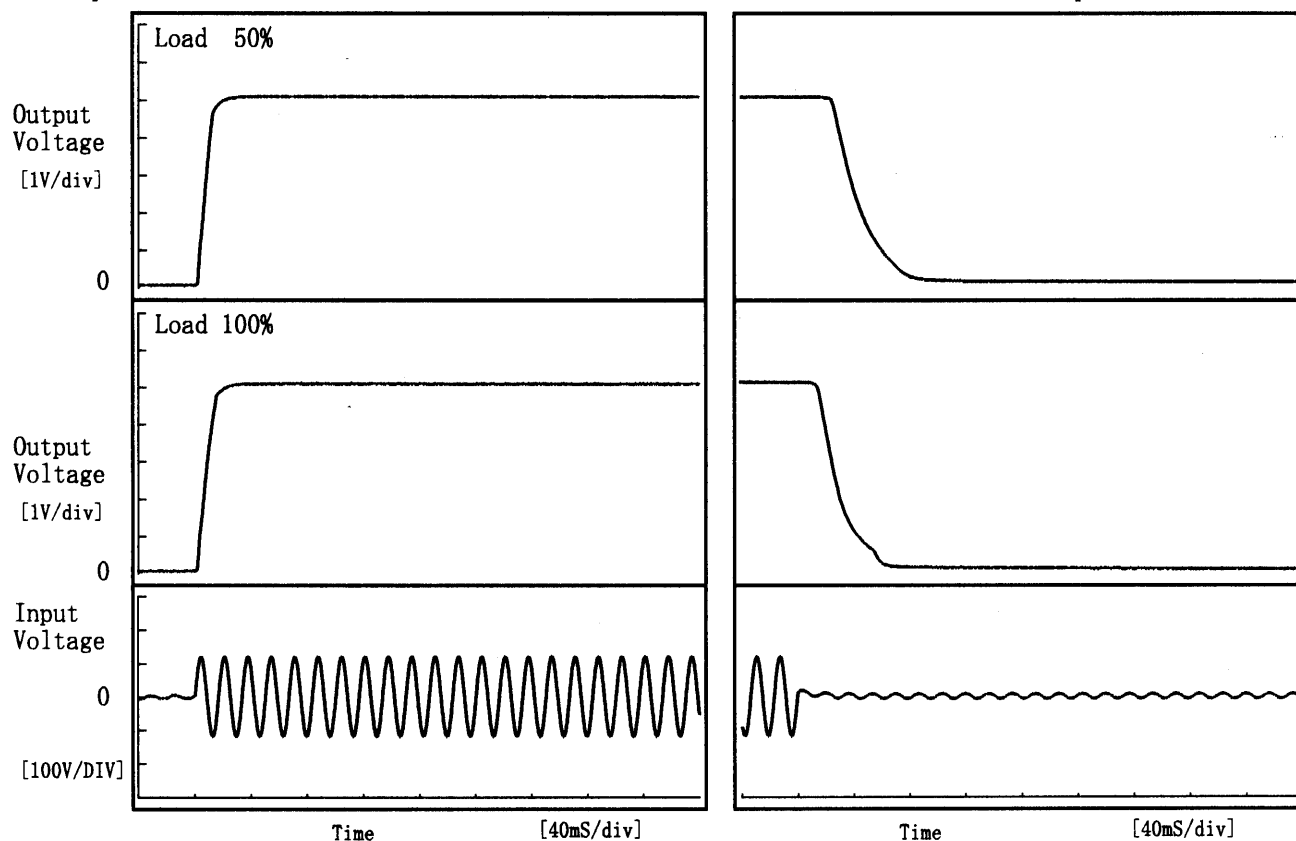
10 mS/div

COSEL

Model	RMC15A-2	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+5.0V2A		

1. Graph

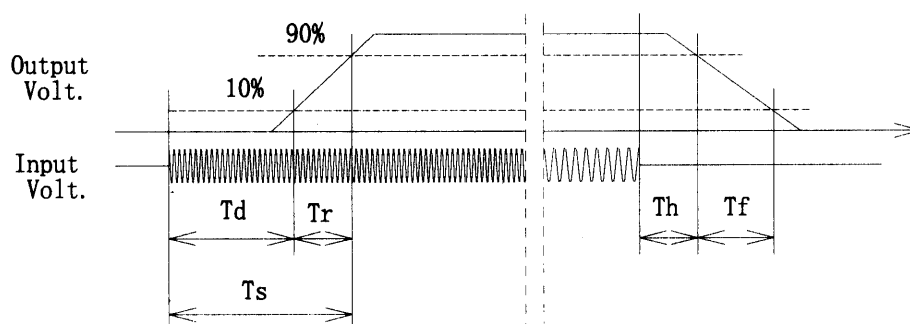
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	2.2	10.0	12.2	28.0	44.5
100 %	2.2	12.2	14.4	17.5	39.0

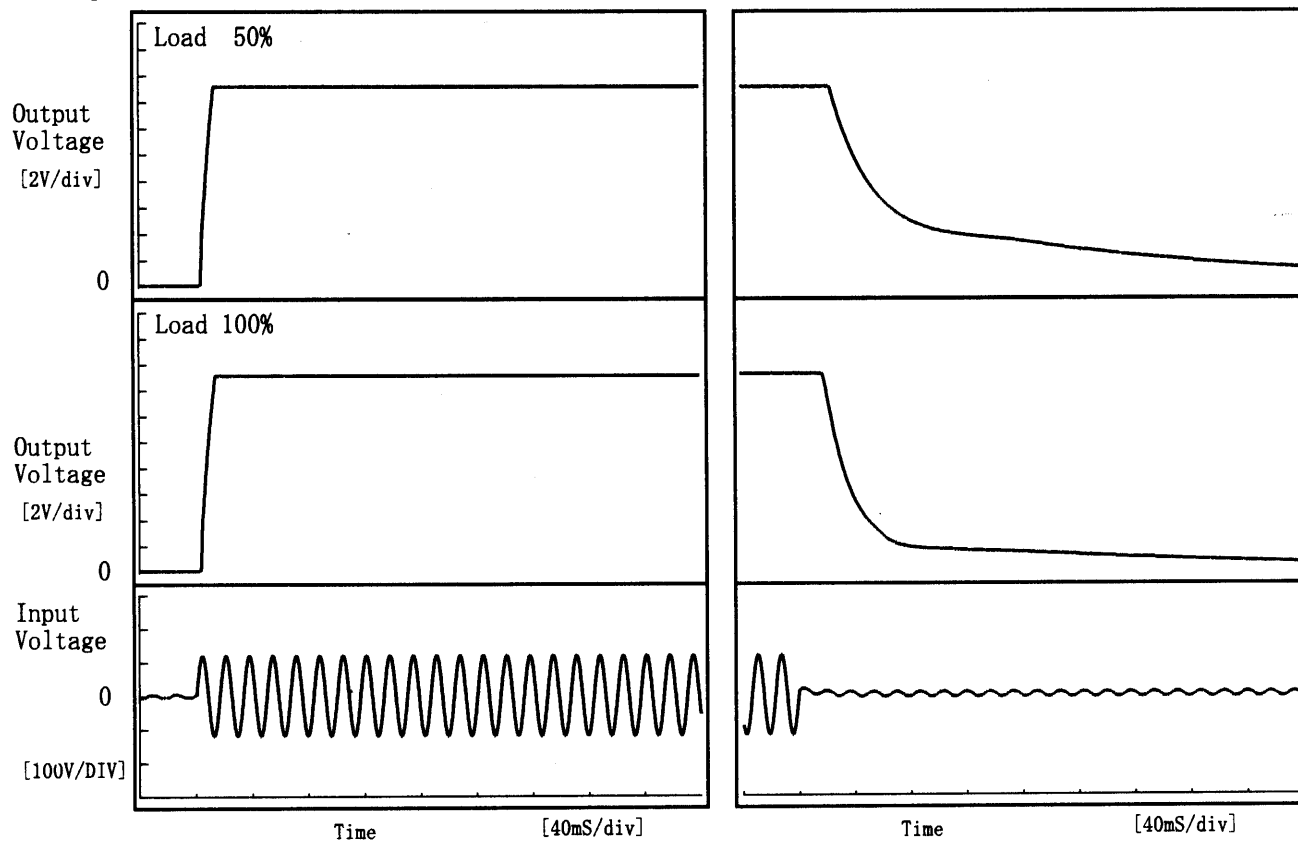


COSEL

Model	RMC15A-2	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+15.0V0.2A		

1. Graph

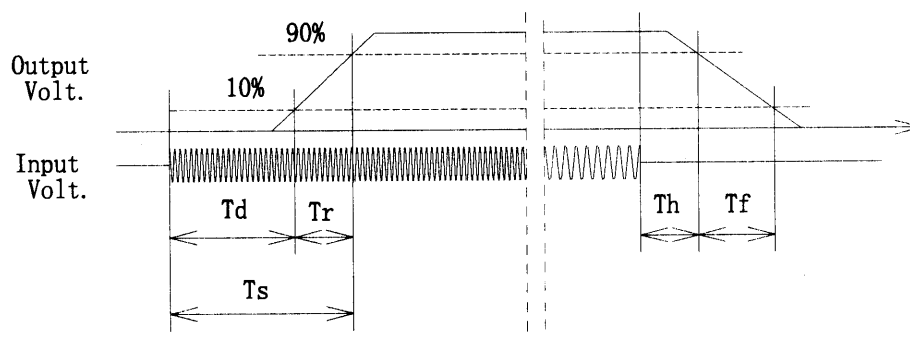
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.6	7.8	11.4	27.5	300.0
100 %	4.0	8.4	12.4	21.0	120.5

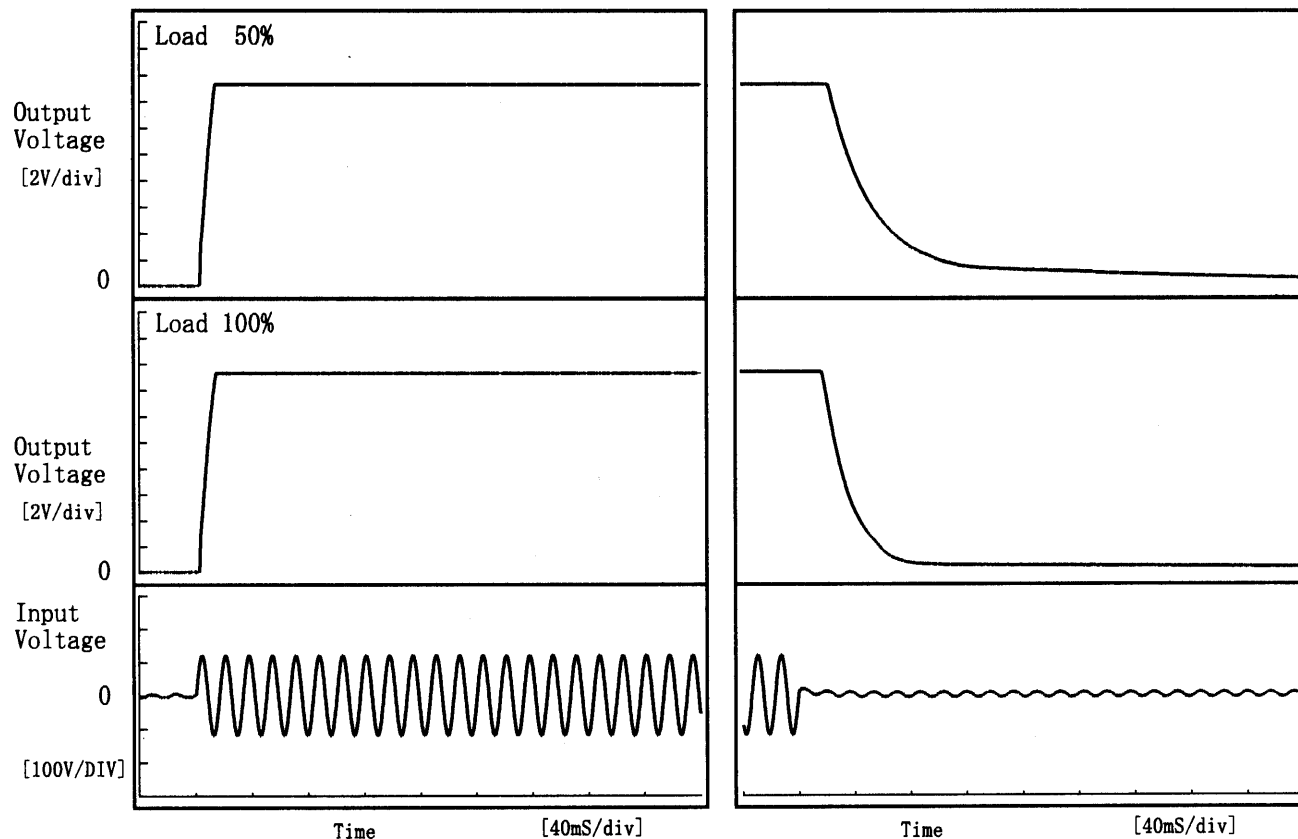


COSEL

Model	RMC15A-2	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	-15.0V0.2A		

1. Graph

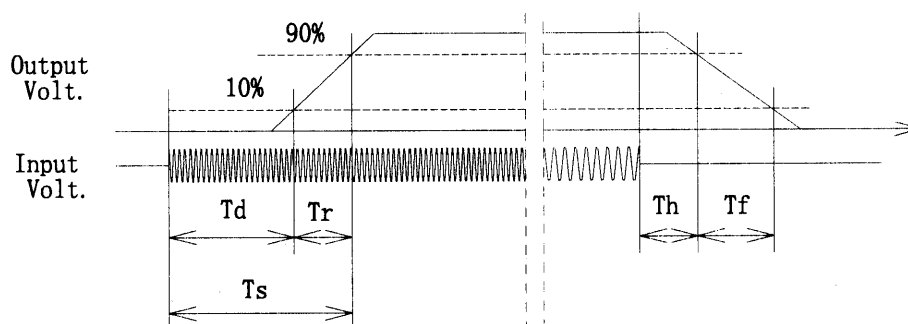
Input Volt. 85 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	3.0	8.6	11.6	26.0	97.5
100 %	2.8	9.6	12.4	20.5	42.5



COSEL

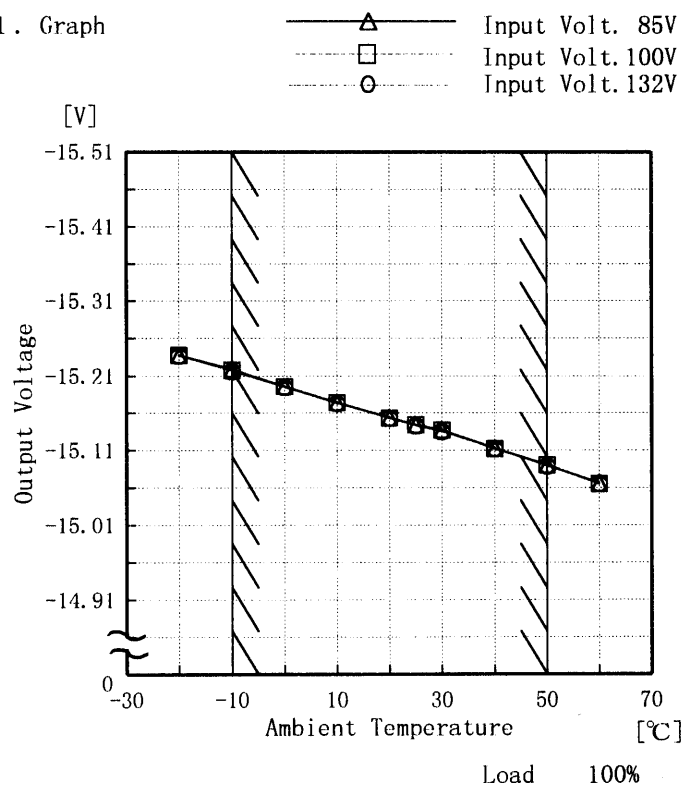
Model		RMC15A-2																																																				
Item		Ambient Temperature Drift 周囲温度変動																																																				
Object		+5.0V2A																																																				
1. Graph		2. Values																																																				
<div><div>—△— Input Volt. 85V</div><div>---□--- Input Volt. 100V</div><div>---○--- Input Volt. 132V</div></div> <div><p>[V]</p><p>Ambient Temperature [°C]</p><p>Load 100%</p></div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 85[V]</th><th>Input Volt. 100[V]</th><th>Input Volt. 132[V]</th></tr><tr><td>-20</td><td>5.076</td><td>5.076</td><td>5.076</td></tr><tr><td>-10</td><td>5.073</td><td>5.073</td><td>5.073</td></tr><tr><td>0</td><td>5.070</td><td>5.070</td><td>5.070</td></tr><tr><td>10</td><td>5.066</td><td>5.066</td><td>5.066</td></tr><tr><td>20</td><td>5.062</td><td>5.062</td><td>5.062</td></tr><tr><td>25</td><td>5.060</td><td>5.060</td><td>5.060</td></tr><tr><td>30</td><td>5.058</td><td>5.058</td><td>5.057</td></tr><tr><td>40</td><td>5.053</td><td>5.053</td><td>5.053</td></tr><tr><td>50</td><td>5.048</td><td>5.048</td><td>5.048</td></tr><tr><td>60</td><td>5.044</td><td>5.043</td><td>5.043</td></tr><tr><td>—</td><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]	-20	5.076	5.076	5.076	-10	5.073	5.073	5.073	0	5.070	5.070	5.070	10	5.066	5.066	5.066	20	5.062	5.062	5.062	25	5.060	5.060	5.060	30	5.058	5.058	5.057	40	5.053	5.053	5.053	50	5.048	5.048	5.048	60	5.044	5.043	5.043	—	—	—	—
Ambient Temperature [°C]	Output Voltage [V]																																																					
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Ambient Temperature [°C]	Output Voltage [V]																																																					
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—	—	—	—																																																			
Note: Slanted line shows the range of the rated ambient temperature. (注)斜線は定格周囲温度範囲を示す。																																																						

COSEL

Model	RMC15A-2
Item	Ambient Temperature Drift 周囲温度変動
Object	-15.0V 0.2A

Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

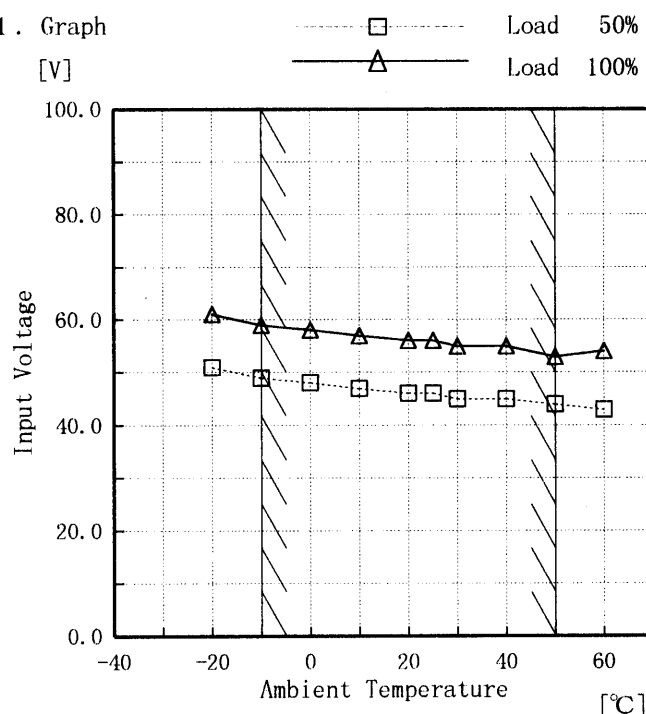
2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 85[V]	Input Volt. 100[V]	Input Volt. 132[V]
-20	-15.238	-15.238	-15.237
-10	-15.219	-15.218	-15.217
0	-15.196	-15.196	-15.195
10	-15.174	-15.174	-15.173
20	-15.154	-15.153	-15.153
25	-15.144	-15.144	-15.143
30	-15.137	-15.137	-15.135
40	-15.113	-15.112	-15.112
50	-15.090	-15.090	-15.089
60	-15.066	-15.065	-15.065
—	—	—	—

COSEL

Model	RMC15A-2
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+5.0V2A

1. Graph

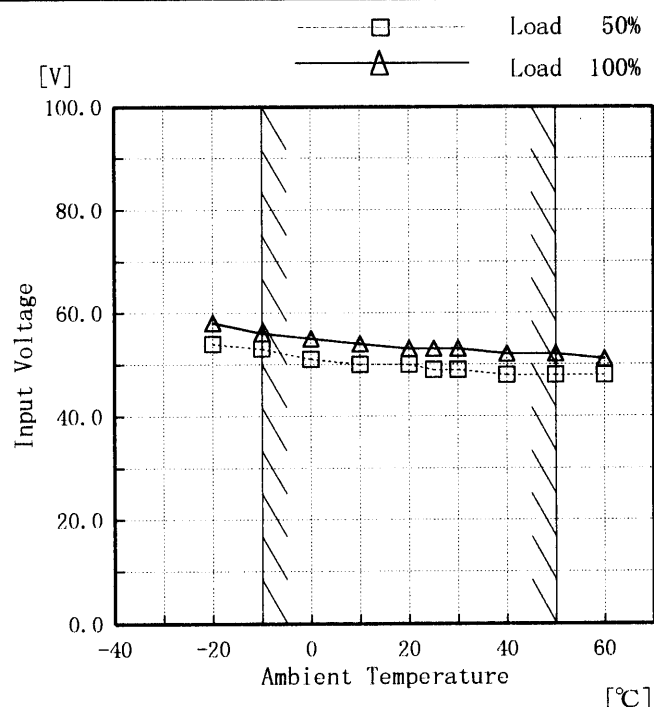


Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	51	61
-10	49	59
0	48	58
10	47	57
20	46	56
25	46	56
30	45	55
40	45	55
50	44	53
60	43	54
—	—	—

Object	+15.0V0.2A
--------	------------



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	54	58
-10	53	56
0	51	55
10	50	54
20	50	53
25	49	53
30	49	53
40	48	52
50	48	52
60	48	51
—	—	—

Note: Slanted line shows the range of the rated ambient temperature.

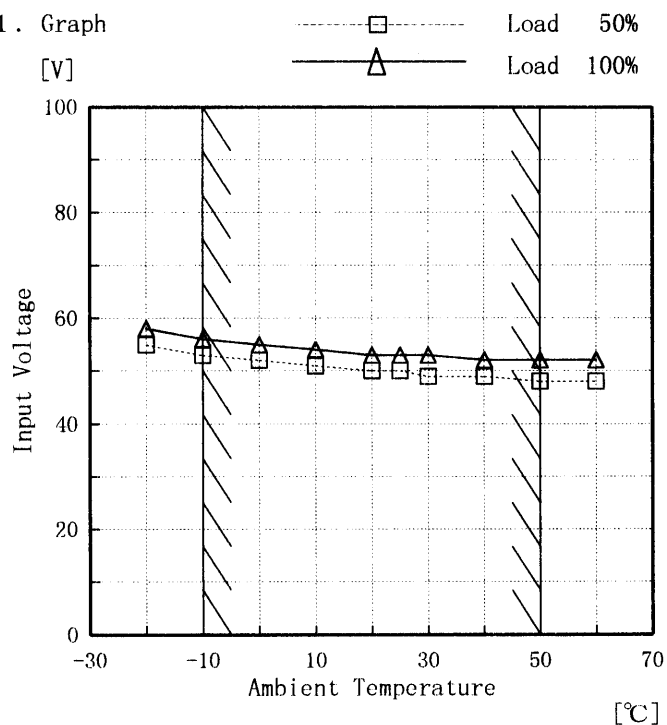
(注) 斜線は定格周囲温度範囲を示す。

COSEL

Model	RMC15A-2
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	+15.0V0.2A

Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	55	58
-10	53	56
0	52	55
10	51	54
20	50	53
25	50	53
30	49	53
40	49	52
50	48	52
60	48	52
—	—	—

COSEL

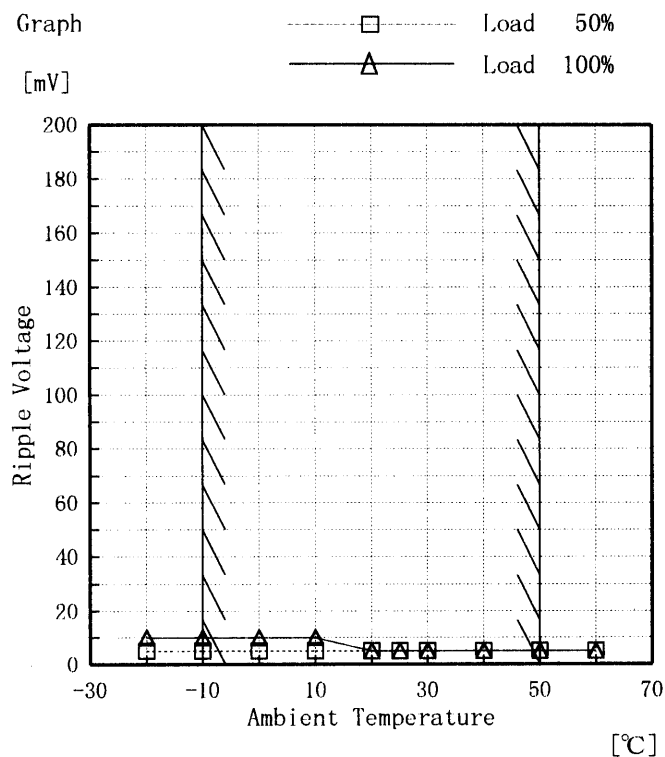
Model		RMC15A-2																																							
Item		Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)																																							
Object		+5.0V2A																																							
1. Graph		2. Values																																							
<div><div><div>□</div><div>Load 50%</div></div><div><div>△</div><div>Load 100%</div></div></div> <div><div><div><div>Ripple Voltage [mV]</div><div>200</div><div>180</div><div>160</div><div>140</div><div>120</div><div>100</div><div>80</div><div>60</div><div>40</div><div>20</div><div>0</div></div><div><div><div>-30</div><div>-10</div><div>10</div><div>30</div><div>50</div><div>70</div></div><div><div>Ambient Temperature [°C]</div></div></div><div><div><div>Input Volt. 100 V</div></div></div></div></div>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Ripple Output Voltage [mV]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>-20</td><td>70</td><td>125</td></tr><tr><td>-10</td><td>50</td><td>90</td></tr><tr><td>0</td><td>30</td><td>50</td></tr><tr><td>10</td><td>15</td><td>30</td></tr><tr><td>20</td><td>10</td><td>20</td></tr><tr><td>25</td><td>10</td><td>20</td></tr><tr><td>30</td><td>10</td><td>20</td></tr><tr><td>40</td><td>10</td><td>20</td></tr><tr><td>50</td><td>10</td><td>15</td></tr><tr><td>60</td><td>10</td><td>10</td></tr><tr><td>—</td><td>—</td><td>—</td></tr></table>		Ambient Temperature [°C]	Ripple Output Voltage [mV]		Load 50%	Load 100%	-20	70	125	-10	50	90	0	30	50	10	15	30	20	10	20	25	10	20	30	10	20	40	10	20	50	10	15	60	10	10	—	—	—
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Ambient Temperature [°C]	Ripple Output Voltage [mV]																																								
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—	—	—																																							
Note: Slanted line shows the range of the rated ambient temperature. (注) 斜線は定格周囲温度範囲を示す。		BC-3257																																							

COSEL

Model	RMC15A-2
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	-15.0V0.2A

Testing Circuitry Figure A

1. Graph



Note: Slanted line shows the range of the rated ambient temperature.

(注) 斜線は定格周囲温度範囲を示す。

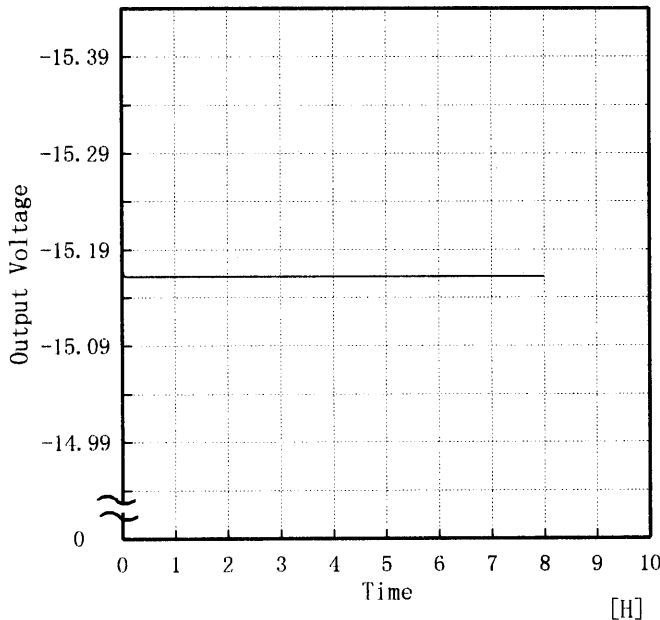
2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	5	10
-10	5	10
0	5	10
10	5	10
20	5	5
25	5	5
30	5	5
40	5	5
50	5	5
60	5	5
—	—	—

COSEL

COSEL																									
Model	RMC15A-2	Temperature25℃ Testing CircuitryFigure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	+5.0V2A																								
1. Graph		2.Values																							
<div><div>[V]</div><div><div>5.130</div><div>5.110</div><div>5.090</div><div>5.070</div><div>5.050</div><div>5.030</div><div>5.010</div><div>0</div></div><div><div>Output Voltage</div><div></div></div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div><div><div>Time</div><div>[H]</div></div></div> <div><div>Input Volt.100V</div><div>Load100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>5.063</td></tr><tr><td>0.5</td><td>5.061</td></tr><tr><td>1.0</td><td>5.061</td></tr><tr><td>2.0</td><td>5.061</td></tr><tr><td>3.0</td><td>5.061</td></tr><tr><td>4.0</td><td>5.061</td></tr><tr><td>5.0</td><td>5.061</td></tr><tr><td>6.0</td><td>5.061</td></tr><tr><td>7.0</td><td>5.061</td></tr><tr><td>8.0</td><td>5.061</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	5.063	0.5	5.061	1.0	5.061	2.0	5.061	3.0	5.061	4.0	5.061	5.0	5.061	6.0	5.061	7.0	5.061	8.0	5.061
Time since start [H]	Output Voltage [V]																								
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4.0	5.061																								
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6.0	5.061																								
7.0	5.061																								
8.0	5.061																								
Object+15.0V0.2A		2.Values																							
<div><div>[V]</div><div><div>15.210</div><div>15.170</div><div>15.130</div><div>15.090</div><div>15.050</div><div>15.010</div><div>14.970</div><div>14.930</div><div>0</div></div><div><div>Output Voltage</div><div></div></div><div><div>0</div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div><div>7</div><div>8</div><div>9</div><div>10</div></div><div><div>Time</div><div>[H]</div></div></div> <div><div>Input Volt.100V</div><div>Load100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>15.080</td></tr><tr><td>0.5</td><td>15.055</td></tr><tr><td>1.0</td><td>15.055</td></tr><tr><td>2.0</td><td>15.055</td></tr><tr><td>3.0</td><td>15.055</td></tr><tr><td>4.0</td><td>15.055</td></tr><tr><td>5.0</td><td>15.055</td></tr><tr><td>6.0</td><td>15.055</td></tr><tr><td>7.0</td><td>15.055</td></tr><tr><td>8.0</td><td>15.055</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	15.080	0.5	15.055	1.0	15.055	2.0	15.055	3.0	15.055	4.0	15.055	5.0	15.055	6.0	15.055	7.0	15.055	8.0	15.055
Time since start [H]	Output Voltage [V]																								
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7.0	15.055																								
8.0	15.055																								
		BC-3257																							

COSEL

COSEL																									
Model	RMC15A-2	Temperature 25℃ Testing Circuitry Figure A																							
Item	Time Lapse Drift 経時ドリフト																								
Object	-15.0V0.2A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Input Volt. 100V Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>-15.192</td></tr><tr><td>0.5</td><td>-15.162</td></tr><tr><td>1.0</td><td>-15.162</td></tr><tr><td>2.0</td><td>-15.162</td></tr><tr><td>3.0</td><td>-15.162</td></tr><tr><td>4.0</td><td>-15.162</td></tr><tr><td>5.0</td><td>-15.162</td></tr><tr><td>6.0</td><td>-15.162</td></tr><tr><td>7.0</td><td>-15.162</td></tr><tr><td>8.0</td><td>-15.162</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	-15.192	0.5	-15.162	1.0	-15.162	2.0	-15.162	3.0	-15.162	4.0	-15.162	5.0	-15.162	6.0	-15.162	7.0	-15.162	8.0	-15.162
Time since start [H]	Output Voltage [V]																								
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6.0	-15.162																								
7.0	-15.162																								
8.0	-15.162																								

COSEL

		Testing Circuitry Figure A
Model	RMC15A-2	
Item	Output Voltage Accuracy 定電圧精度	

1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -10~50 °C

Input Voltage : 85~132 V

Load Current (AVR 1) : 0~2 A (AVR 2) : 0~0.2 A (AVR 3) : 0~0.2 A

* Output Voltage Accuracy = $\pm (\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

* Output Voltage Accuracy (Ration) = $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

1. 定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -10~50 °C

入力電圧 85~132 V

負荷電流 (AVR 1) : 0~2 A (AVR 2) : 0~0.2 A (AVR 3) : 0~0.2 A

* 定電圧精度(変動値) = $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

* 定電圧精度(変動率) = $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

2. Values

Object	+5.0V2A					
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	85	0	5.078	±16	±0.4
Minimum Voltage	50	100	2	5.047		

Object	+15.0V0.2A					
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	85	0.0	15.128	±58	±0.4
Minimum Voltage	50	100	0.2	15.012		

Object	-15.0V0.2A					
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	85	0.0	-15.225	±70	±0.5
Minimum Voltage	50	132	0.2	-15.086		

COSEL

Model	RMC15A-2
Item	Conducted Emission 雑音端子電圧
Object	

Testing Circuitry Figure D

1. Graph

Remarks

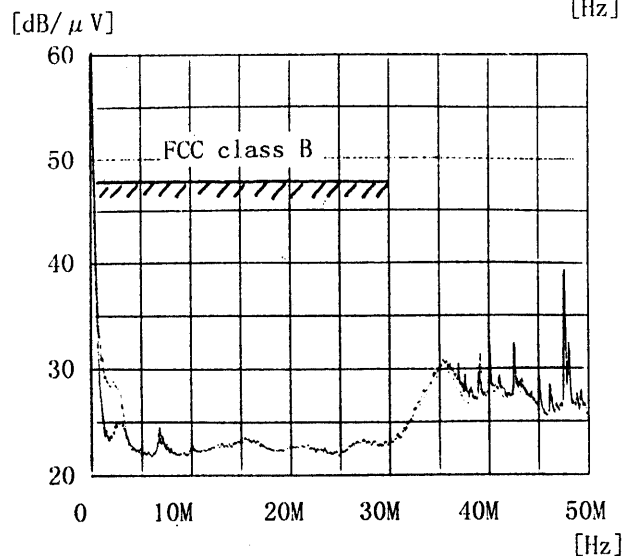
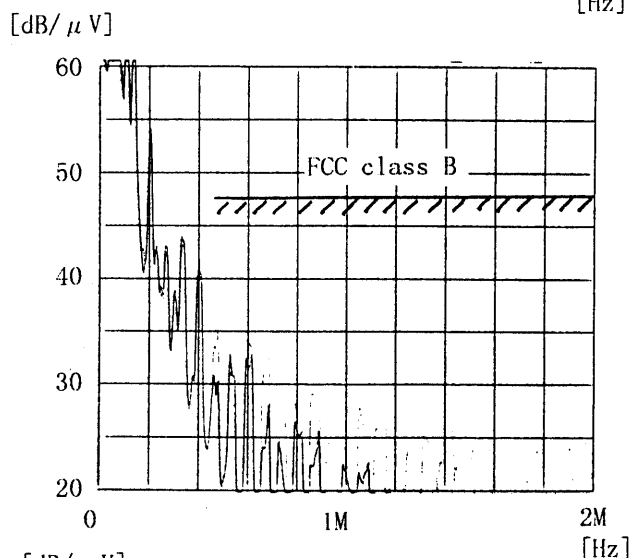
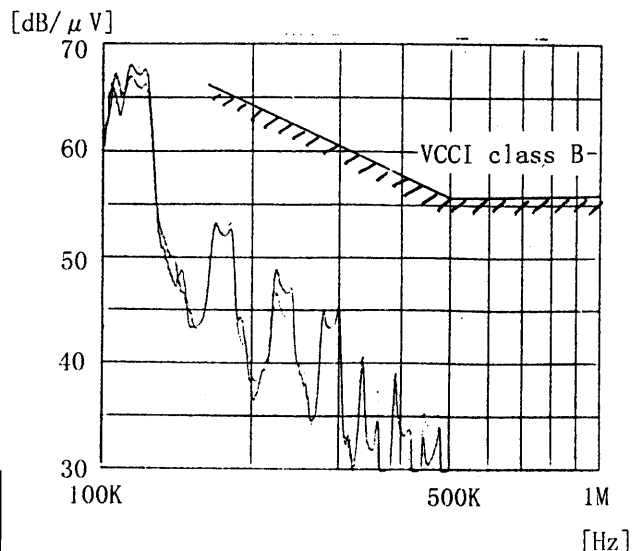
Input Volt. 120 V (VCCI:100V)

Load 100 %

Note: Slanted line shows the range of Tolerance.

(注)斜線は許容値を示す。

NO	Standards	Standards Complied	Frequency [MHz]	Tolerance [dB/μV]
1	FCC class A		0.45~1.6	60
			1.6~30	69.5
2	FCC class B	○	0.45~30	48
3	VCCI class A		0.15~0.5	79
			0.5~30	73
4	VCCI class B	○	0.15~0.5	66-56
			0.5~5	56
			5~30	60
5	CISPR Pub. 22 class A (EN55022)		0.15~0.5	79
			0.5~30	73
6	CISPR Pub. 22 class B (EN55022)		0.15~0.5	66-56
			0.5~5	56
			5~30	60



COSEL

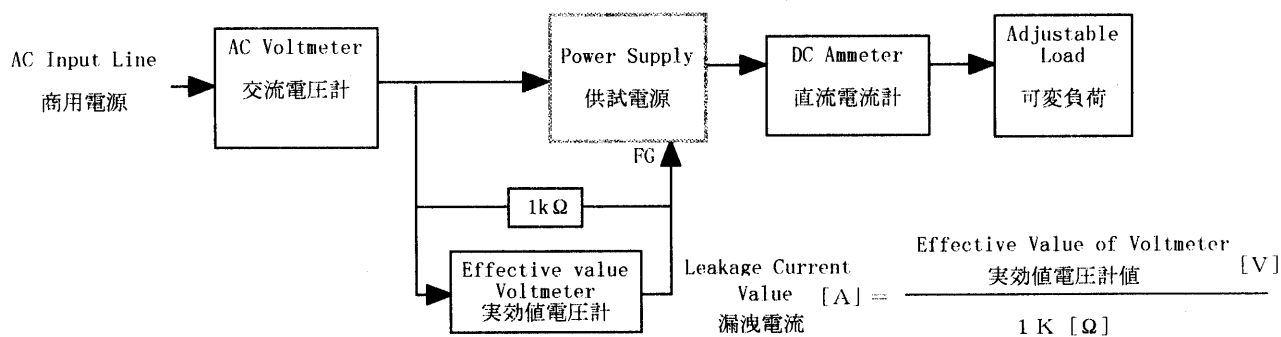
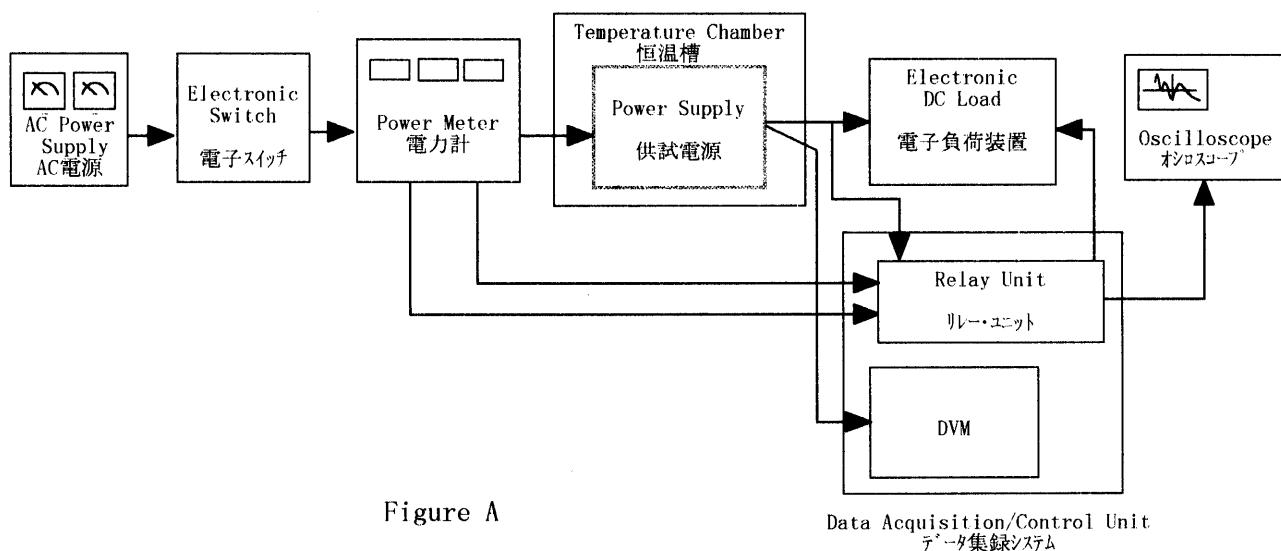


Figure B (DENTORI)

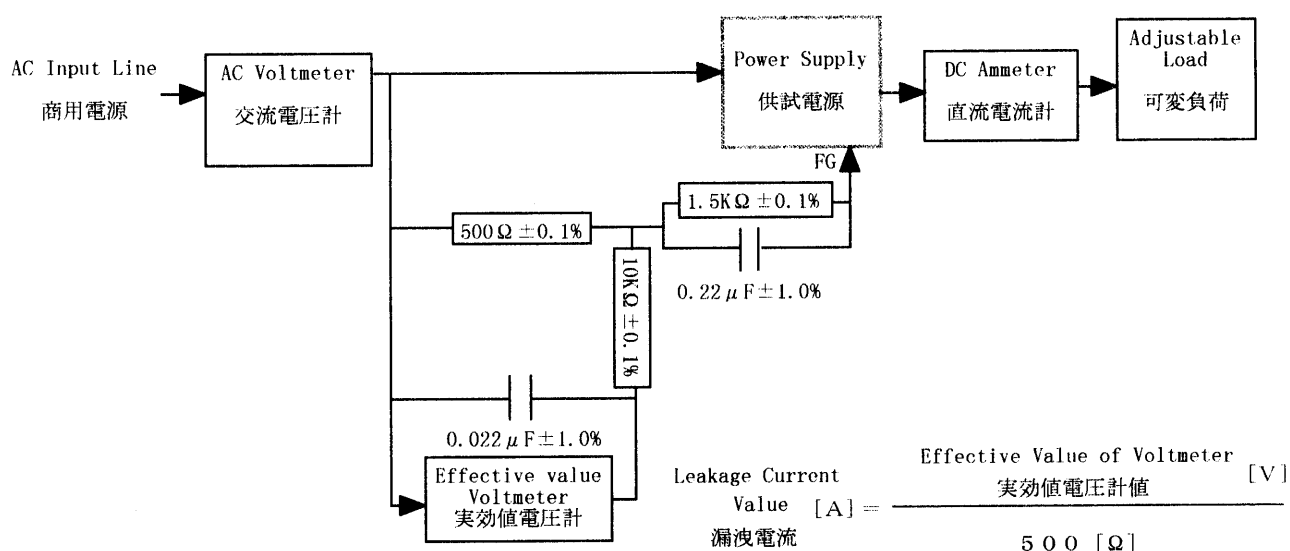


Figure B (IEC 60950)

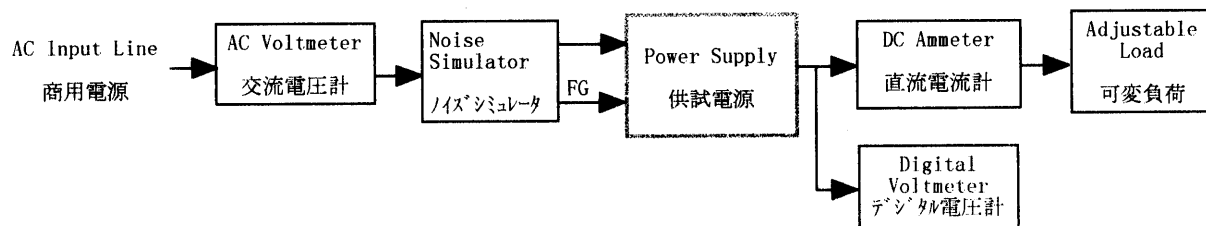


Figure C

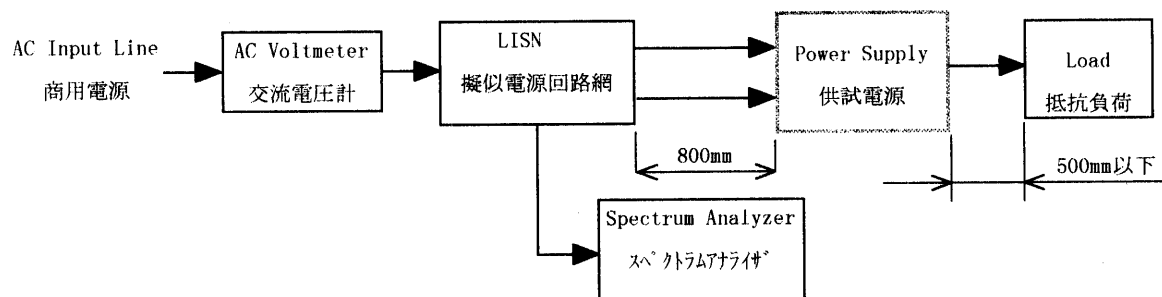


Figure D

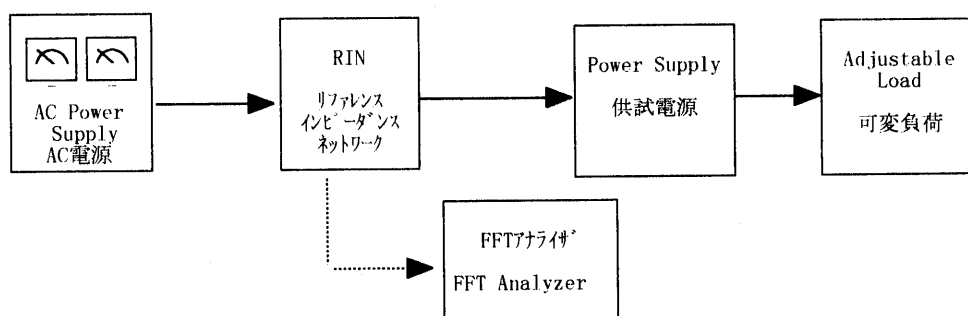


Figure E